

FiberOptic.com

The Fiber Optic Marketplace LLC®



2014 Catalog

Full-Line Edition

Toll Free: 877.529.9114 • Fax: 215.689.1463 • sales@fiberoptic.com



Since its formation in 1995, FiberOptic.com has become the number one on-line provider of fiber optic products, training and rental solutions. The Fiber Optic Marketplace, LLC began as an on-line business-to-business portal for the fiber optic community, and has expanded its business both domestically and internationally. The company's customers include Fortune 500 companies, telecommunications providers, the military, installers, contractors and educational institutions from across the globe. In addition to efficient product distribution, FiberOptic.com offers classroom, on-site and on-line training courses for individuals interested in fiber optic theory and installation. Experienced fiber optics instructors conduct two and four-day training classes throughout the year at our location in Breinigsville, Pennsylvania. On-site training programs are also available for groups of six students or more. The company also offers equipment rentals including fusion splicers and OTDRs.

The Fiber Optic Marketplace, LLC is committed to maintaining excellent customer service and client relations. As we continue into the future, the company will continue to offer expertise in the field of fiber optics by providing customized solutions for our customers' project requirements. We will continue to uphold our status as the number one on-line provider of fiber optic products, training and rental solutions.

SHIPPING OPTIONS

- Same day shipping for in-stock products ordered before 3PM EST.
- You choose your shipping method: UPS, FedEx, DHL or U.S. Postal Service
- Global shipping

VALUE ADDED SERVICES

We are here to provide you with solutions and products to fulfill your project needs

- Free account set up with your first purchase
- Equipment Rentals
- Free Professional Technical Support available 9AM-5PM EST
- Chat on-line with a Professional in Real Time
- Global Training
- With Over 3,000 Products in Stock we are guaranteed to meet any of your fiber optic needs

HOURS OF OPERATION

FiberOptic.com has Professional Sales Representatives ready to take your order Monday through Friday, 9AM - 5PM Eastern Standard Time or place your order on-line through our web-site www.fiberoptic.com.



TO PLACE AN ORDER

- Web: www.fiberoptic.com
- E-mail: sales@fiberoptic.com
- Phone: 1-877-529-9114
- Fax: 1-215-689-1463

If we have your email address on file, orders will be confirmed automatically via e-mail.

For sales assistance
1-877-529-9114

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LEGAL NOTICE

All products are sold FOB shipping point. Items will be shipped UPS ground, freight collect or third-party bill unless otherwise requested by purchaser. Please advise method of shipment and preferred carrier when order is placed. We discourage mandatory carrier requirements which have an adverse effect on service and delivery. Check your order immediately upon arrival. All damages must be noted on delivery receipt. Any claims for damage or loss of items while in transit must be filed with the carrier.

For purchasers with established credit, terms are net 30 days from date of shipment. Payments must be in U.S. dollars and cash discounts are not allowed. Our remit to address is The Fiber Optic Marketplace, One TEK Park Suite 220, 9999 Hamilton Blvd. Breinigsville PA 18031.

Items being returned must first be approved by FiberOptic.com and must be shipped freight prepaid. Returned goods are subject to a 25% restocking fee.

Custom orders are not refundable.

Any liability for consequential or incidental damages is expressly disclaimed. FiberOptic.com's liability is limited to, and shall not exceed, the purchase price paid.

Catalog prices are subject to change without notice.

Manage your network assets
Instantly locate outages
Plan network expansion



Perform Complex Queries

Whether you need to know how many customers have been affected by an outage, or simply want to see how many pieces of equipment in your central office are older than 5 years, FiberBase makes it easy. Built around an Oracle back end, FiberBase can query any data, based on any parameter you define.



Track Network Assets

The importance of having a complete listing of your equipment, where it is located and what it is attached to, cannot be underestimated in any size network. Whether copper or fiber, networks can be pretty complex. FiberBase eliminates the guesswork, enabling you to map every asset and feature of your network. FiberBase allows you to zoom from a satellite map view all the way down to an individual customer on a single transport signal!



Real-time Networking Monitoring

Dedicated Network Monitoring Devices are gaining popularity in the Fiber Optics industry. By continuously scanning your network for signal degradation, monitoring solutions allow you to locate and address problems before they lead to outages, saving you time and money.

FiberBase has now partnered with NTest, the industry's leading Remote Fiber Test System. Together, NTest and FiberBase can monitor a network 24/7, alerting service providers or engineers of problems and then mapping the incident location down to a street address or closest intersection!



Instantly Locate Outages

It's fairly likely that you use OTDR traces to determine the integrity of your network. Unfortunately, OTDRs don't know the difference between a cable that's running up a pole or one that's underground. With proper mapping of your network, you can often pinpoint problems with a single OTDR scan!



ORACLE[®] CERTIFIED
PARTNER

Microsoft[®]
CERTIFIED
Partner

NTEST

Don't see what your looking for?
FiberOptic.com offers a
complete line of rental solutions.

Visit us at our rental website www.RentTele.com.

Call us at 877-529-9114, or
Email at Rentals@fiberoptic.com
to request a quote.

*We will price match any competitor's quote.

FREE

PRO-VFL-5



Get a **FREE***
Visual Fault Locator when
you rent from FiberOptic.com

**Applies to rentals one(1) month or greater only*

Fusion Splicers

Core Alignment

Precision Rated Optics

1 Week	\$450.00
2 Week	\$720.00
4 Week	\$950.00



OFS-930

AFL / Sumitomo / Other

1 Week	\$1,025.00
2 Week	\$1,255.00
4 Week	\$1,675.00



70S

Mass Fusion

Precision Rated Optics

1 Week	\$995.00
2 Week	\$1,255.00
4 Week	\$1,675.00



OFS-950R

OTDRs

Dual Wavelength 850/1300nm or 1310/1550nm



PRO-MM-18/22



EXFO FTB-1



JDSU T-BERD 2000

EXFO FTB-200

1 Week	\$625.00
2 Week	\$875.00
4 Week	\$1,155.00

EXFO FTB-1

1 Week	\$625.00
2 Week	\$875.00
4 Week	\$1,155.00

PRO-MM-18/22

1 Week	\$475.00
2 Week	\$675.00
4 Week	\$875.00

JDSU T-BERD 2000

1 Week	\$650.00
2 Week	\$900.00
4 Week	\$1,175.00

Quad Wavelength 850/1300/1310/1550nm



EXFO FTB200v2



PRO 5Q



JDSU T-BERD 6000

EXFO FTB-200

1 Week	\$950.00
2 Week	\$1,155.00
4 Week	\$1,675.00

NOYES M200

1 Week	\$950.00
2 Week	\$1,155.00
4 Week	\$1,675.00

PRO 5Q

1 Week	\$625.00
2 Week	\$875.00
4 Week	\$1,155.00

JDSU T-BERD 6000

1 Week	\$975.00
2 Week	\$1,200.00
4 Week	\$1,650.00

TERMS & CONDITIONS

- Cleaver and one spare set of electrodes are provided with the splicers, electrodes are also available for purchase.
- If required, OTDRs are supplied with choice of adapter and launch cable. (FC or SC standard)
- One test cable is provided with each power meter and light source.
- Rental periods are by the week from the time of shipment until the time of return.

- No cancellations will be granted after the product has been shipped.
- Renter agrees to use equipment safely and return the product in as good condition as when originally received. If in default, renter agrees to pay the Fiber Optic Marketplace, LLC for any loss or damage of rental equipment.
- It is the renter's responsibility to return the rental unit via a traceable means (e.g. UPS).

PRECISION RATED OPTICS *FUSION SPLICERS***PRO-730**

Core Alignment Fusion Splicer

Whether your application is Premise, OSP or FTTx, splicing with the PRO-730 will get the job done right! The core-alignment PRO-730 is designed to work with all the popular fiber types and in all weather conditions. With storage space for up to 8000 groups of splice results and a reversible monitor, you can splice all day long with efficiency and ease.

Features:

- Color LCD monitor & 256 magnification
- Compact & Lightweight
- Reversible monitor with control panel on each side
- Max. wind velocity of 15m/s.
- 8 Sec. splice time, 40 Sec. tube-heat time
- Simultaneous X and Y views
- Large capacity internal battery
- SYSTEM TEST ensures the best working condition
- User programmable
- Auto check fiber end face
- Auto calibrate parameters
- Store 8000 groups of splice results
- Multiple language options

SPECIFICATIONS

Applicable Fibers	SM, MM, DS, NZ-DS, EDF
Cladding Diameter	100 to 150um
Cleave Length	16mm (standard)
Average Splice Loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04 (NZDS)
Environmental Conditions	~25 ~ +50 C (temp), 0~95% (humidity), 0~5000m (altitude)
Tension Test	2.0N (Standard)
Monitor	Color LCD @ 200X
Splice Time	8 Seconds
Heater Time	40 Seconds (Best time)
Max Wind Velocity	15 mph
Camera Axis	X axis & Y axis
Languages	English, Spanish, Russian, Korean
Auto check fiber end face	Yes
Auto calibrate	Yes
User Programmable	Yes
Interface	RS232
Data Storage	8000 Splices
Power Supply	Internal Battery (12V - 200 splices), DC Adapter (12V)
Dimensions	6.5 (W) x 5.5 (H) x 6.5 (D) inches
Weight	7.25 lbs

**ORDERING INFORMATION**

PRO-730	<i>PRO-730</i>	\$6,995.00
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The Kit includes: Splicer, Cleaver, Spare Electrodes, Battery, AC Adapter/Batter Charger, AC Power Cord, V-Groove Brush, Cooling Tray, Monitor Cover, Manual, Quick Guide, Hard Case.

PRO-730-STK1	<i>PRO-730 Technician Kit</i>	\$9,495.00
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The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

Rentals also available

Week	Price
1	\$395.00
2	\$695.00
4	\$895.00

OPTIONAL ACCESSORIES AND SUPPLIES

FS-BAT-730	<i>Battery</i>	\$530.00
FS-ELEC-730	<i>Electrodes</i>	\$150.00
FS-C20	<i>Cleaver</i>	\$1,113.00
FS-AC-1	<i>AC Adapter</i>	\$265.00
FS-AC-2	<i>AC Power Cord</i>	\$100.00
PRO-730-EW	<i>1 Year Extended Warranty</i>	\$995.00



***Ask about our extended warranty and
loaner programs for PRO splicers! ***

PRO[®] - 810 Fusion Splicer

Dual Heaters & Digital Image Processing

The PRO 810 fusion splicer is a dependable, core-alignment splicer that incorporates a user-friendly interface and includes a standard list of features rarely found on splicers at this price point. The rugged construction is perfect for harsh working conditions, whether it's Premise, OSP or FTTH.

For ease of use, the PRO 810 features a reversible, 5-inch, HD LCD monitor, allowing for front or rear splicer orientation. Additionally, the PRO 810 is FiberBase compatible, allowing results to be uploaded and integrated into the FiberBase software for permanent storage and retrieval.

The PRO 810 is, by far, the best valued splicer available on the market today.

*Features 8 sec. splice
time, 30 sec. heat time
&
USB interface*



SPECIFICATIONS

Applicable fibers	SM, MM, DS, NZ-DS(G655), EDF and others
Cladding diameter (um)	100 to 150
Coating diameter (um)	100 to 1000
Fiber cleaved length	16mm (standard)
Splicing mode	Auto & Manual
Average splice loss	0.02dB(SM), 0.01dB(MM), 0.04dB(NZDS)
Return loss	≥60dB
Tension test	2.0N (200gf) (Standard)
Protection sleeve length	20mm, 40mm, 60mm and other series micro protection sleeves
Splicing program	80 groups
Language	English, Korean, Russian, Spanish, French, Portuguese and others
Environment conditions	-13~ +122°F operation temp (-25~ +50°C), 0~95%RH (humidity), 0~4000m (altitude)
Storage environment	-40~ +176°F temp (-40~ +80°C), 0~95% RH (humidity)
Interface	USB interface - updates & result transfer
Power supply	AC adapter: 85~260V input voltage Internal battery: 12V, 10Ah, Capable of up to 200 sets of continuous splice and heat DC adapter: 12V voltage, optional multipurpose external battery
Dimensions/Weight	5.75 (D) x 5.90 (W) x 6.29 (H) in / 7.3 lbs (146 (D) x 150 (W) x 160 (H) mm/ 3.3 kg)

Features

- High definition LCD display
- Profile Alignment System Technology (PAS)
- Core or cladding alignment
- Dual Independent Heaters, 30 Sec. tube-heat time
- 3 magnification modes, max. 360 magnification
- Four display modes, fiber core visible
- 8 Sec. splice time
- Li-on battery
- Max. wind velocity of 15m/s
- Splicing method: auto, manual
- Store 8000 groups of splice results
- USB interface - for updates + result transfers

Rentals also available

Week	Price
1	\$450.00
2	\$720.00
4	\$950.00

ORDERING INFORMATION

PRO-810	<i>Dual Heaters & Digital Image Processing Fusion Splicer</i>	\$8,995.00
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The Kit includes: Fusion Splicer, Internal Battery, Charger, Spare Electrodes, Cooling Tray, Instruction Manual, Carry Case, Fiber Cleaver, Fiber Stripper, AC Adaptor, AC Power Cord

PRO-810-STK1	<i>PRO-810 Technician Kit</i>	\$9,995.00
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The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

***Ask about our extended warranty and
loaner programs for PRO splicers!***

PRECISION RATED OPTICS *FUSION SPLICERS*

PRO[®]-790

Active V-Groove Fusion Splicer

The PRO-790 is a perfect complement to our existing Fusion Splicer product line. The PRO-790 is designed to be lightweight (4.5 lbs) and can fit in the palm of your hand (just under 5 inches).

The PRO-790 offers adjustable fiber holders which can accommodate 250μ, 900μ and 3mm fiber. Additionally, an SOC (Splice-On Connector) holder is also available. This unit provides performance and results typically only found in splicers costing thousands of dollars more!

To accommodate the growing use of splice-on connectors, the PRO-790 even features a custom heat-oven holder designed specifically for splice-on connectors.



SPECIFICATIONS

Applicable Fibers	SM, MM, DS, NZ-DS(G655), G655, G657 and others
Fiber Diameter	Cladding Diameter: 80-150 μm; Coating Diameter: 100~1000 μm
Average Splice Loss	0.03db(MM), 0.05db(SM), 0.08db (DS/NZDS/G.655/G.657)
Return loss	60dB
Tension Test	2.0N
Splice Time	8 seconds
Protection sleeve length	25mm, 40mm, 60mm
Heater Time	35 Sec.
Splicing program	Automatic Setting
Alignment	Active V-Groove (Manual adjustment for 1 V-Groove to Simulate Core Alignment)
Display	Color 3.5 Inch TFT, 200 magnifications
Interface	USB
Splice Memory	10000
Electrode Span	5000 times
Operating Temp	-18°C ~ 50°C (-0.4°F ~ 122°F)
Storage Temp	-40°C ~ +80°C (-40°F ~ 176°F)
Window Protection	Max. wind velocity of 15mph
Power Supply	Internal Li-Battery, DC adaptor
Battery Capacity	More than 120 times of continuous splices and heats
Dimension	120mm(L) x 120mm(W) x 115mm(H) (4.7x4.7x4.5in)
Weight	1.7KG (3.75lbs) (Include battery)

Features

- 3.5" Bi-Directional Display
- Extremely Portable
- Attachable Work Light Included
(Powered Directly off Splicer)
- Internal Battery
- Fiber Holder System

ORDERING INFORMATION

PRO-790	<i>PRO-790</i>	\$7,995.00
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The Kit includes: PRO-790 Splicer, Cleaver, Power/ Battery Accessories, Spare Electrodes, Fiber Holders, Dual Hole Strippers, Drop Cable Strippers, Work Light, Cooling Tray, Alcohol Pump Container, Fiber Transfer Tool, Transit case, Straps (Splicer and Case), Manual

PRO-790-STK1	<i>PRO-790 Technician Kit</i>	\$10,375.00
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The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

***Ask about our extended warranty and
loaner programs for PRO splicers!***

PRO[®] OFS-900

FTTH Fusion Splicer

The Precision Rated Optics OFS-900 Fixed V-Groove Fusion Splicer has been specifically designed and optimized for FTTH applications. Its super-ruggedized rain, dust and shock resistant design means the OFS-900 can easily tolerate harsh working conditions that would instantly disable lesser units.

The ability to accommodate Splice-on-Connectors means you'll work more efficiently, and with a 20 Second heat-up time and a 7 Second splicing time, you'll work faster than ever.

Optimized for those working in FTTH applications, the all-new OFS-900 packs a punch, adding huge functionality to your toolbox at an incredibly competitive price point.

SPECIFICATIONS

Fiber Alignment	Fixed V-Groove (Clad-to-Clad)
Size of Clad	125 μ m
Size of Coating	250 ~ 900 μ m
Average Loss Ratio	0.03dB (SM), 0.02dB (MM), 0.06dB (NZDS, DS)
Splicing Time	7 sec
Heating Sleeve	20 sec (0.9mm), 70 sec (Indoor, 3.0mm)
Length of Sleeve	60mm/40mm
Tensile Strength	1.96N
Data Storage	2,000 Operations
Cable	0.25mm, 0.9mm, 2.0mm, 3.0mm, Indoor Cable
Dimensions (WxLxH)	140 x 179 x 87 mm
Weight	1.2 Kg (Include Rubber, Battery 2ea)
Power Supply	DC Li-Polymer Battery, 100 ~240V AC Adapter
External Power	DC 12V (Vehicle Accessory Jack)
Battery Capacity	1400 mAh (x2)
Battery Lifespan	Typically 140 cycles (0.9mm fiber)
Operating Temperature	-10 °C~ 50 °C
Storage Temperature	-40 °C ~ 80 °C



Features

- Compact Design for Tight Workspaces
- Applicable for SOC (Splice-on-Connector)
- Water, Dust and Shock Resistant
- Efficient Two-Heater System
- Competitively Priced

ORDERING INFORMATION

OFS-900	<i>OFS-900 Fixed V-Groove Splicer</i>	\$5,500.00
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The Kit includes: Fusion Splicer, AC Adapter, Battery Charger, DC Li-Polymer Battery, 900 μ m Fiber Holders, Spare Electrode, Cooling Tray, Precision Cleaver, Manual Stripper, Carrying Case, SOC Fiber Holder, Manual.

PRECISION RATED OPTICS *FUSION SPLICERS***PRO[®] OFS-920****Fixed V-Groove FTTX Fusion Splicer**

The Precision Rated Optics OFS-920 All-in-One FTTC Fixed V-Groove Fusion Splicer has been uniquely engineered to accomplish all major fusion splicing tasks: heating, stripping, cleaning, cleaving, splicing and sleeving.

The OFS-920 touch-screen and intuitive interface make it easy to navigate the various functions quickly and efficiently. The OFS-920 is also compatible with Splice-On-Connectors, allowing you to work faster and more efficiently.

Is it tough? Oh yeah... The OFS-920 is water, dust and shock resistant and able to survive working conditions that would easily disable lesser units. If you need an all-in-one fusion splicer that can literally do it all, don't hesitate to add the OFS-920 to your toolbox.

**SPECIFICATIONS**

Alignment	Fixed V-Groove (Clad to Clad)
Cladding Diameter	125µm
Coating Diameter	250 ~ 900µm
Average Splice Loss	SM: 0.03dB, MM: 0.02dB, NZDS,DS: 0.06dB
Splicing Time	7 sec
Heating Time	20 sec (0.9mm Fiber), 70 sec (Indoor, 3.0mm Cable)
Sleeve Length	30mm (0.9mm Fiber), 40mm (2.0, 3.0mm, Indoor Cable)
Tension Test	1.96N
Splice Memory	2000
Dimensions (WxLxH)	135 x 200 x 82 mm
Weight	1.5 kg (Body 1.1kg, Battery 120g x 2)
Power Supply	DC Li-Polymer Battery, 100~240V AC Adapter
Additional Power (Optional)	DC 12V (Vehicle Accessory Jack)
Battery Capacity	1400 mAh (x2)
Splice/Heat Operations w/Batt.	> 120 Operations (0.9mm Fiber)
Operating Temp	-10 °C ~ 50 °C
Storage Temp	-40 °C ~ 80 °C
Alignment	0.25mm, 0.9mm, 2.0mm, 3.0mm, Indoor Cable

Features

- Touch Screen with 4.3 Color Monitor
- Water, Dust and Shock Resistant
- Long Battery Life (More than 320 Charge Cycles)
- Attached Sleeve Loader
- Dual-Sleeve Heater
- All-in-One Design (Fixed V-Groove)
- Thermal Stripper
- Compatible with SOC Connectors (Optional)
- 250um/900um Micron Fiber Holders

ORDERING INFORMATION

OFS-920	<i>OFS-920 Fixed V-Groove FTTX Splicer</i>	\$7,500.00
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The Kit includes: Splicer, AC Adapter, Battery Charger, DC Li-Polymer Battery, 250mm Fiber Holders, Spare Electrode, Carrying Case, Manual.

PRO[®] OFS-930

Core Alignment Fusion Splicer

The Precision Rated Optics OFS-930 Core Alignment Fusion Splicer has everything you'll need to get the job done, including a cleaner dispenser, one-step precision cleaver, dual-oven heater and, of course, a super-fast fusion splicer.

Built to last, the OFS-930 is water, dust and shock resistant. Built-in dual sleeve heaters increase efficiency and the thermal stripper can cleanly strip your fiber in just 1.5 seconds!

Achieving over 320 splicing operations per charge, the OFS-930 has enough battery capacity to work all day long without recharging.

If you want one of the best core alignment, all-in-one fusion splicers available at any price, add the OFS-930 to your toolbox. You'll be glad you did.

SPECIFICATIONS

Alignment	IPAS Core-to-Core Alignment (Image Pattern Analysis Alignment System)
Applicable Fibers	SMF (ITU-T G.652), MMF (ITU-T G.651), DSF (ITU-T G.653), NZDSF (ITU-T G.655), EDFA, E1980, Splicing available with different type fiber (SM/MM), ITU-T G.657
Fiber Diameter	Cladding : 80µm ~ 150µm , Coating : 100µm~ 1000µm (single)
Fiber Cleave Length	250µm (Coat): 8 ~ 16mm, 900µm: 16mm
Typical Splice Loss	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB, NZDSF: 0.04dB
Return Loss	< -60dB
Splice Time	Typically 9 sec, Tube Heat : Typically 26 sec with S-160 (60mm) Tube
Program	Spice Mode: 100, Heat Mode: 50
Storage of Splice Results	Last 2,000 Results (Images: 100 Results)
Operating Altitude	0 ~ 5000m Above Sea Level
Operating Condition	-10 °C to 50 °C, Humidity : 95%, Non-Condensing
Storage Condition	-40 °C to 80 °C , 0 to 95% RH
Protection	Wind 15 m/s, Water, Dust and Shock Resistant
Physical Dimensions	138 x 160 x 135mm (Including Monitor & Rubber Boot)
Weight	2.3Kg (Including Batteries)
Ports	USB, RCA, External Power
Power Supply	DC 14.8V Battery (5600mAh), 100 ~ 240V AC Adapter
Additional Power (Optional)	DC 12V (Vehicle Accessory Port)
Splicing/Heating Operations w/Batt.	250 Cycle, Lithium Polymer Batteries
Electrode	> 2,000 Splicing Operations
Mechanical Proof Test	2N / 4.4N (OPTIONAL)
Display	Two CMOS Cameras and 4.3" Color LCD Monitor with Touch-Screen
Fiber View and Magnification	X/Y 300X, 170X



Features

- Core Alignment by IPAS Technology
- Water, Dust and Shock Resistant
- Dual Sleeve Heater
- Touch-Screen with 4.3 Color LCD Monitor
- Attached Sleeve Loader
- Built-in Task Light
- ROHS Compliant

ORDERING INFORMATION

OFS-930	<i>OFS-930 Core Alignment Splicer</i>	\$11,000.00
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The Kit includes: Fusion Splicer, AC Adapter, Sleeve Loader, Battery Pack, Precision Cleaver, Alcohol Dispenser, Spare Electrodes, Carrying Case, Cooling Tray, Fiber Stripper, Manual.

PRECISION RATED OPTICS *FUSION SPLICERS*

PRO[®] OFS-950S

All-in-One Core Alignment Fusion Splicer

The Precision Rated Optics OFS-950S all-in-one, core alignment fusion splicer contains a built-in automatic thermal stripper, cleaner dispenser, one-step precision cleaver and dual-oven heater. The OFS-950S features touch-screen operation and over 300 splice cycles per battery charge. The OFS-950S can splice any single fiber, single-mode or multi-mode fiber and is fully compatible with splice-on connectors!

SPECIFICATIONS

Alignment	IPAS Core-to-Core Alignment (Image Pattern Analysis Alignment System)
Applicable Type of Fibers	SMF (ITU-T G.652), MMF (ITU-T G.651), DSF (ITU-T G.653), NZDSF (ITU-T G.655), EDFA, E1980, Splicing Available with Various Fiber Types (SM/MM), ITU-T G.657
Applicable Fiber Dimensions	Single: Cladding Diameter 80µm ~ 150µm , Coating Diameter 100µm ~ 1000µm
Fiber Setting and Cleaved Length	250µm (Coat) : 8 ~ 16mm, 900µm : 16mm
Typical Splice Loss	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB, NZDSF: 0.04dB
Return Loss	> -60dB
Splicing Time	Typically 9 sec, Tube Heat: Typically 20 ~ 26 sec with S-160 (60mm) Tube
Splice Result	Last 2,000 Results (Image: 100 results)
Operating Altitude	0 ~ 5000m Above Sea Level
Operating Condition	-10 °C to 50 °C, Humidity: 95%, Non-Condensing
Storage Condition	-40 °C to 80 °C, 0 to 95% RH
Physical Dimensions	140x225x125mm (Include Monitor & Rubber Boot)
Weight	2.95Kg (Including Batteries)
Ports	USB, RCA, External Power
Power Supply	DC 14.8V Lithium Polymer Batteries (7700mAh), 100 ~ 240V AC Adapter
Battery Capacity	320 Splicing Operations
Electrode Lifespan	> 2,000 Splicing Operations
Mechanical Proof Test	2N / 4.4N (OPTIONAL)
Display	Two CMOS Cameras and 4.3" Color LCD Monitor with Touch-Screen
Fiber View and Magnification	X/Y 300X, 170X



Features

- All-in-One Design
- Navigational Touch-Screen with 4.3 Color Monitor
- 250um/900um Micron Fiber Holders
- Thermal Stripper
- Long Battery Life (More than 320 Charge Cycles)
- Water, Dust and Shock Resistant
- Attached Sleeve Loader
- Dual-Sleeve Heater
- Compatible with SOC Connectors (Optional)

ORDERING INFORMATION

OFS-950S OFS-950S Core Alignment Splicer **\$12,900.00**

The Kit includes: Fusion Splicer with Auto Stripper, Cleaner Unit and Cleaver, AC Adapter, Sleeve Loader, Spare Electrodes, Battery Pack, Cooling Tray, Carrying Case, User Manual.

PRO[®] OFS-950R

All-in-One Ribbon Fusion Splicer

The OFS-950R addresses the high demand for ribbon splicing, which is becoming more common in the industry. The OFS-950R boasts an ergonomic "all-in-one" design which allows a technician to complete all five splicing operations (stripping, cleaning, cleaving, splicing and sleeving) quickly and conveniently. The compact design also eliminates the need for a large work space and includes all of the prep tools (manual stripper, cleaver and alcohol bottle) right onboard!

The automatic thermal stripper quickly and easily strips 250um and 900um fiber. Thermal stripping eliminates the possibility of scratching, which often occurs with mechanical stripping.



SPECIFICATIONS

Applicable Type of Fibers	SM(ITU-T G.652), MM(ITU-T G.651), DS(ITU-T G.653), NZDS(ITU-T G.655)
Fiber Count	Single Fiber, 2~12 fiber
Applicable Fiber Dimensions	Single: Cladding Diameter 125 , Coating Diameter 250, 900 Ribbon: Cladding Diameter 125 , Ribbon Fiber Thickness 0.27 to 0.32mm
Fiber Setting and Cleaved Length	8mm
Splicing Modes	Splice Mode: 100, Heat mode: 50
Typical Splice Loss	SM: 0.05dB, MM: 0.02dB, DS: 0.08dB, NZDS: 0.08dB
Return Loss	> 60dB
Splicing Time	Typically 20sec with Standard SM (ITU-T G.652)
Splice Loss Estimate	Available
Sleeve Heating Time	35 sec
Applicable Protection Sleeve	45mm (Fiber), 28mm or 32mm (Connector)
Storage of Splice Result	The Last 1,000 Results to be Stored in the Internal Memory (Image 100 results)
Tension Test	2N / 4.4N (Option)
Operating Condition	Altitude: 0~3,660m Above Sea Level, Temperature: -10 ~50 , Humidity: 0~95%, Wind: 15m/s, Non-Condensing, Dust Proof, Shock Proof
Storage Condition	Temperature: -40 ~80 , Humidity: 0~95%
Dimensions (WxLxH)	140mm x 225mm x 125mm (5.5in x 8.85in x 4.9in) (Include Monitor, Rubber)
Weight	2.3kg (Including Battery)
Viewing Method and Display	Two CMOS Cameras and 3.5" color LCD Monitor with Touch Panel
Fiber View and Magnification	XY : 300X/170X
Power Supply	DC 14.8V Battery (7,700mAh), 100 ~ 240V AC Adapter
No. of Splice Cycles with Battery	320-Cycle Lithium Polymer Battery
Electrode Life	More than 1,000 Splices
Terminals	USB, External Power (DC 12V Available for Car Lighter Input)

Features

- Shock, Dust and Water Resistant
- Navigational Touch Screen with 4.3 Color Monitor
- Long Battery Life (More than 320 Charge Cycles)
- Attached Sleeve Loader
- Dual Sleeve Heater
- All-in-One Design
- Thermal Stripper
- Compatible with SOC Connectors (Option)
- 250um/900um Micron Fiber Holders
- 12-Fiber Ribbon Holders

ORDERING INFORMATION

OFS-950R	<i>OFS-950R Ribbon Splicer</i>	\$13,900.00
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The Kit includes: Arc Fusion Splicer, AC Adapter, Sleeve Loader, Spare Electrodes, 250/900 Micron / 12-Ribbon Fiber Holders, Battery Pack, Cooling Tray, Holder, Tool Box, User Manual, Carrying Case

AFL/FUJIKURA *FUSION SPLICERS*

FSM-12S

Fusion Splicer

The Fujikura 12S is the world's smallest, lightest and most portable fusion splicer available today. Despite its incredibly small size, this ruggedized, full-featured unit offers unmatched versatility for splicing in the most challenging environments. The innovative transit case and work tray provide multiple options for the best utilization of available work space while the long life battery provides power for up to 100 splice cycles which include application of the splice protection sleeve.

The Fujikura 12S incorporates features typically found only in more expensive models. The large 4.5" monitor provides a crystal clear image, even in the brightest sunlight, for evaluating splice quality. The electrode life has been extended to 3,000 splices, minimizing downtime for replacement and stabilization. Software updates are accomplished via the internet allowing users to quickly update their software as new splice programs become available. The fully ruggedized chassis provides for shock, dust and moisture protection while the two camera observation system provides for accurate fiber alignment and loss estimation calculations. The Fujikura 12S is also fully compatible with the FuseConnect line of fusion installable connectors.

Backed by the best service team in the industry, the Fujikura 12S is the ideal splicer to use when portability, ruggedness, versatility and reliability are needed for your n splicing application.

SPECIFICATIONS

Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DSF (G.653), NZDS (G.655)
Cladding Diameter	125 µm
Coating Diameter	160 µm to 3 mm by fiber holder system
Fiber Cleave Length	5 mm to 13 mm
Typical Splice Loss	0.05 dB (SM), 0.02 dB (MM), 0.08 dB (DS) and 0.08 dB (NZDS)
Splicing Time	Typical 15 sec with SM
Tube Heater	Typical 30 sec with FP-03 (60 mm) sleeve
Splice Mode / Heating Mode	Total 100 splice modes / 30 heating modes
Tension Test	1.96 to 2.25 N
Result Storage	Last 2,000 splices
Magnification	100X magnification
Viewing Method	2 axis CMOS camera with 4.47 inch color LCD
Number of Splice/Heat with Battery	Typical 100 cycles with BTR-10
Electrode Life	3,000 splices
Operating Condition	Altitude: 0 to 3,660 m above sea level, Wind: 15 m/sec Temperature: -10 to 50 deg C, Humidity: 0 to 95% RH, non-dew
Rugged Features	Shock resistance: 76 cm (30 inch) bottom surface drop Dust resistance: Exposure to dust (0.1 to 500 µm dia. Alumina Silicate) Rain resistance: H=10 mm/hr for 10 min
Dimensions	121W x 162D x 57H (mm) / 4.76 W x 6.38 D x 2.24 H (inches)
Weight w/Battery	776 g / 1.71 lbs.
Warranty	1 Year Warranty

Ask about our extended warranty and loaner programs for splicers!



Features

- World's smallest splicer at 4.76"W x 6.38"D x 2.24"H
- Fully ruggedized for shock, moisture and dust resistance
- Transit case converts to easy to use workstation
- Dual camera, fixed v-groove alignment technology
- Extended life electrodes
- Long life battery (100 splices/shrinks per charge)

ORDERING INFORMATION

S015521 *Fujikura 12S Fusion Splicer* **\$4,795.00**

The Kit includes: Fujikura 12S Fusion Splicer, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (Pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (Pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case

S015522 *Fujikura 12S Fusion Splicer Kit 1* **\$5,995.00**

The Kit includes: Fujikura 12S Fusion Splicer, CT-30 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (Pair), FH-60-900 Fiber Holders (Pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (Pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case

S015530 *12S Fusion Splicer Kit 2* **\$5,595.00**

The Kit includes: Fujikura 12S Fusion Splicer, CT-10 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (Pair), FH-60-900 Fiber Holders (Pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (Pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case

OPTIONAL ACCESSORIES AND SUPPLIES

S015533 *CT-10 Cleaver (for single fibers)* **\$592.00**

S014076 *CT-30 Cleaver (for single to 12 ribbon fibers)* **\$1,036.00**

S014548 *FH-60-250 (250 µm single fiber)* **\$240.50**

S014549 *FH-60-900 Fiber Holders (900 µm single fiber)* **\$240.50**

S015528 *FH-60-DC250 (250 µm drop cable)* **\$740.00**

S014696 *FH-FC-20 (900 µm within 2.0 mm sheathing)* **\$68.45**

S014695 *FH-FC-30 (900 µm within 3.0 mm sheathing)* **\$68.45**

S015527 *BTR-10 Battery Pack* **\$370.00**

S014028 *ELCT2-12 Electrodes* **\$100.00**

S015523 *ADC-19 AC Adapter* **\$185.00**

S014390 *ACC-09 Power Cord* **\$18.50**

S015525 *AP-01 Alcohol Container* **\$37.00**

S015524 *CC-29 Transit Case* **\$333.00**

FSM-19S

Fixed V-Groove Fusion Splicer

The Fujikura 19S is a low cost, fixed v-groove single fiber splicer with similar features found on the Fujikura 70S. Incorporating the proven ruggedized features pioneered by Fujikura, the 19S has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable "auto open sheath clamps" open one sheath clamp, after the tensile test, to prepare the fiber for removal. A new automated "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a faster shrink time. Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.

SPECIFICATIONS

Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	125 µm
Coating Diameter	100 µm to 1,000 µm
Fiber Cleave Length	5 to 16 mm
Typical Average Splice Loss	0.05 dB with SM, 0.02 dB with MM, 0.08 dB with DS, 0.08 dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	SM FAST mode: 11 seconds; SM AUTO mode: 11 seconds; AUTO mode: 11 seconds
Arc Calibration Method	Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss	Estimate Based upon dual camera core alignment data
Storage of Splice Result	Last 2,000 results to be stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation
Magnification	320X for single X or Y view, or 200X for X and Y view
Viewing Method	Dual cameras with 4.73 inch TFT color LCD monitor
Operating Condition	0 to 3,660 m above sea level, 0 to 95%RH and -10 to 50°C respectively
Mechanical Proof Test	1.96 to 2.25N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	17 seconds with FP3 (40), 5-16 seconds with Fujikura micro sleeves
Protection Sleeve Length	60 mm, 40 mm, micro
Splice/Heat Cycles w/ Battery	Typical 200 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240 V AC or 10 to 15 V DC with ADC-18, 14.8 V DC with BTR-09 battery
Terminals	USB 1.1 (USB-B type) for PC communication. Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15 m/s. (34 mph)
Dimensions	146 W x 159 D x 150 H (mm) / 5.75 W x 6.25 D x 5.9 H (inches)
Weight	2.3 kg (5.1 lbs) with AC adapter; 2.5 kg (5.5 lbs) with battery



Features

- Automated and programmable wind protector
- Fully ruggedized for shock, dust and moisture
- Li-ion battery with 180 splice/heat cycles per charge
- 5 mm cleave length for splice on connector or small package needs
- Sheath clamp or fiber holder operation
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation

ORDERING INFORMATION

S015679 *Fujikura 19S Fusion Splicer* **\$5,995.00**

The Kit includes: ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Pot, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

S015680 *Fujikura 19S With Cleaver* **\$6,995.00**

The Kit includes: CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap

S015681 *Fujikura 19S With Cleaver and Battery* **\$7,325.00**

The Kit includes: BTR-09 Battery, DCC-18 Battery Charge Cord, CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

AFL/FUJIKURA *FUSION SPLICERS*

FSM-70S

Fusion Splicer

The Fujikura 70S is the world's fastest and most robust core alignment fusion splicer. Incorporating the proven ruggedized features pioneered by Fujikura, the 70S has added automated and enhanced user control features to increase splicing efficiency.

A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable "auto open sheath clamps" open one sheath clamp, after the tensile test, to prepare the fiber for removal. A new automated "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a 14-second shrink time. The result is a total splice process time of approximately 21 seconds! Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor.

Battery capacity is now 200 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.

SPECIFICATIONS

Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	80 µm to 150 µm
Coating Diameter	100 µm to 1,000 µm
Fiber Cleave Length	5 to 16 mm
Typical Splice Loss	0.02 dB with SM, 0.01 dB with MM, 0.04 dB with DS, 0.04 dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	SM FAST mode - 7 seconds; SM AUTO mode - 12 seconds; AUTO mode - 15 seconds
Arc Calibration	Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss	Based upon dual camera core alignment data
Fiber Display	X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation
Magnification	300X for single X or Y view, or 160X for X and Y view
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 14 seconds with FP-03 sleeve, 17 seconds with FP3 (40), 5-16 seconds with Fujikura micro sleeves
Viewing Method	Dual cameras with 4.73 inch TFT color LCD monitor
Splices Per Charge	Typical 200 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240 V AC or 10 to 15 V DC with ADC-18, 14.8 V DC with BTR-09 battery
Terminals	USB 1.1 (USB-B type) for PC communication. Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15 m/s. (34 mph)
Oper. Condition	0 to 5,000 m above sea level, 0 to 95%RH and -10 to 50°C respectively
Dimensions	146 W x 159 D x 150 H mm (5.75 W x 6.25 D x 5.9 H in)
Weight	2.5 kg (5.5 lbs) with AC adapter ADC-18; 2.7 kg (5.95 lbs) with BTR-09 battery
Warranty	2 year warranty

Ask about our extended warranty and loaner programs for splicers!



Features

- Automated and programmable wind protector
- 14-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-Ion battery with 200 splices/shrinks per charge
- 5 mm cleave length for splice on connector or small package needs
- Sheath clamp or fiber holder operation
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation



ORDERING INFORMATION

S015580 70S Fusion Splicer (machine only) **\$12,815.00**

The Kit includes: ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Pot, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

S015590 70S Fusion Splicer Kit (with cleaver) **\$13,900.00**

The Kit includes: CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap

S015591 70S Fusion Splicer Kit (with cleaver, battery and cord) **\$14,225.00**

The Kit includes: BTR-09 Battery, DCC-18 Battery Charge Cord, CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

OPTIONAL ACCESSORIES AND SUPPLIES

S014784 CT-10A Cleaver **\$647.50**

S014548 FH-60-250 Fiber Holder (pair) **\$240.50**

S014549 FH-60-900 Fiber Holder (pair) **\$240.50**

S013532 ELCT2-20A Electrodes **\$100.00**

S014773 Portable Tripod Workstation **\$495.00**

S010532 ASW-02 Splicing Workstation **\$693.75**

FSM-70R

Fusion Splicer

The Fujikura 70R is equipped with a precision, fixed v-groove for splicing single fibers or ribbon fiber up to 12 fibers. Incorporating the proven ruggedized features pioneered by Fujikura, the 70R has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. A new auto-start "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a 40-second shrink time for 12-fiber ribbon. The result is a total splice process time of approximately 55 seconds!

Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. Battery capacity is now 110 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.

SPECIFICATIONS

Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DS (G.653), NZDS (G.655)
Fiber Count	Single, 2, 4, 5, 6, 8, 10, 12
Cladding Diameter	125 µm
Coating Diameter	Ribbon: 0.25 mm to 0.4 mm, Single: 250 µm and 900 µm
Fiber Cleave Length	10 mm
Typical Average Splice Loss	0.05 dB with SM, 0.02 dB with MM, 0.08 dB with DS, 0.08 dB with NZDS; measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 15 seconds with standard single-mode fiber
Arc Calibration Method	Automatic, real-time by using results of previous splice when in AUTO mode; manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss	Estimate Based upon dual camera cladding alignment data
Storage of Splice Result	Last 2000 splice results stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automatic image orientation
Magnification	35X to 90X
Viewing Method	Dual cameras with 4.7 inch TFT color LCD monitor with anti-reflective coating
Operating Condition	0 to 3,660 m above sea level, 0 to 95% RH, and -10 to 50°C respectively
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 40 seconds with FP-5 sleeve, 17 seconds with FP3 (40), 5-15 seconds with Fujikura micro sleeves
Protection Sleeve Length	60 mm, 40 mm, Micro
Splices Per Charge	Typical 110 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-13, 13.2V DC with BTR-08 battery
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15m/s (34 mph)
Dimensions	146 W x 159 D x 150 H mm (5.7 W x 6.3 D x 5.9 H in)
Weight	2.3 kg (5.1 lbs) with AC adapter; 2.5 kg (5.5 lbs) with battery



Features

- Automated and programmable wind protector
- 40-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-ion battery with 110 splices/shrinks per charge
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation

ORDERING INFORMATION

S015669 70R Fusion Splicer (machine only) **\$12,815.00**

The Kit includes: ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

S015670 70R Fusion Splicer Kit (with cleaver) **\$13,900.00**

The Kit includes: CT30 Cleaver, HJS-02 Stripper, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

S015671 70R Fusion Splicer Kit (with cleaver, battery and cord) **\$14,225.00**

The Kit includes: BTR-09 Battery, DCC-18 Battery Charge Cord, CT30 Cleaver, HJS-02 Stripper, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap

OPTIONAL ACCESSORIES AND SUPPLIES

S014784 CT-10A Cleaver **\$647.50**

S014548 FH-60-250 Fiber Holder (pair) **\$240.50**

S014549 FH-60-900 Fiber Holder (pair) **\$240.50**

S013532 ELCT2-20A Electrodes **\$100.00**

S014773 Portable Tripod Workstation **\$495.00**

S010532 ASW-02 Splicing Workstation **\$693.75**

SUMITOMO FUSION SPLICERS

TYPE-25eU/S/M

TomCat™ FTTH Fusion Splicer

The new Type-25e TomCats incorporate all the features, functions and proven reliability of the Type-25 family—the industry's most popular handheld splicers for FTTx, premise, and restoration applications—but with numerous enhancements. The new TomCats feature improved optical technology utilizing your choice of an economical one camera system or an industry standard dual camera splice loss estimation system. The improved optical technology, combined with a quicker splice protection sleeve heater, allows the unit to deliver a typical splice time in less than 11 seconds for SMF or MMF.

The units are also compatible with Sumitomo's new Lynx—CustomFit™ Splice-on Connector, which makes index matching gel, hand polishing, epoxies and splice trays obsolete. The Type-25e family features an improved fiber holder system to increase splice repeatability while making the units effortless to learn and operate.

Features:

- Dual Camera Splice Loss Estimation
- Economically Priced Single Camera Unit
- 60 Splice & Heat Shrinks per Battery Charge
- Multiple Language Options Including Spanish
- User-Friendly Menu Selection System
- Unified Holders for Type-25e/Type-66
- Unified Electrodes for Type-25e/Type-66/Type-39
- Built-in Battery Charger
- AC Adapter Incorporated within Unit
- Lynx -- CustomFit Splice-On Connector Compatible
- Automatic Arc Test Function



SPECIFICATIONS

Model	Type-25eU	Type-25eS	Type-25eM
SMF/MMF	0.10/0.04dB	0.05/0.03dB	0.05/0.03dB
RoHS	Compliant (environmentally friendly)		
Alignment Method	Fixed V-Groove		
Applicable Fiber Types	SMF, MMF, DSF, NZ-DSF		
Fiber Count	1ct.	1ct.	up to 4ct. ribbon
Splice Loss Estimation	No	Yes	Yes
Fiber Placement Fiber	Holder System (for Type 25e/Type 66/Type-65)		
Cladding Diameter	125 µm		
Typical Splice Loss	Identical Fibers		
SMF/MMF	0.10/0.04dB	0.05/0.03dB	0.05/0.03dB
Typical Heaters Cycle	40 seconds		
Typical Splice Time	11 seconds		
Splices Per Charge	60 Splice & Heat Shrink Cycles per Charge		
Arc Test	Compensates for Environmental Conditions		
External Interface	12 Volt DC Output for Accessories USB Port for Quick PC Transfers		
Internal Data Storage	1500		
Lynx—CustomFit™ Splice-On Connector	Compatible		
Powering Options	Internal Battery Charger Internal AC Adapter		
Warranty	2-year Limited Warranty		

Ask about our extended warranty and loaner programs for splicers!



ORDERING INFORMATION

TYPE-25EU-KIT-1	Type-25eU Fusion Splicer Kit (splicer only)	\$4,890.00
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The Kit includes: Type-25eU Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EU-KIT-2	Type-25eU Fusion Splicer Kit (w/cleaver)	\$5,920.00
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The Kit includes: Type-25eU Fusion Splicer, Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25ES-KIT-1	Type-25eS Fusion Splicer Kit (splicer only)	\$6,250.00
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The Kit includes: Type-25eU Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25ES-KIT-2	Type-25eS Fusion Splicer Kit (w/cleaver)	\$7,450.00
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The Kit includes: Type-25eU Fusion Splicer, Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EM-KIT-1	Type-25eM Fusion Splicer Kit (splicer only)	\$8,700.00
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The Kit includes: Type-25eM Fusion Splicer, Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, 4 Fiber Ribbon Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EM-KIT-2	Type-25eM Fusion Splicer Kit (w/cleaver)	\$10,190.00
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The Kit includes: Type-25eM Fusion Splicer (w/ cleaver), Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, 4 Fiber Ribbon Holders, Hard Carrying Case, 1-year Limited Warranty

* All the above available as Kit-3, includes an extra battery

OPTIONAL ACCESSORIES AND SUPPLIES

FOM-TK-VGROOVE	Fiberoptic.com Fusion Splicer Cleaning Kit	\$98.00
FCP-BL	Cleaver Blade (FC-XXX)	\$155.00
FHS-025	250 µm Single Fiber Holder (T-25e)	\$500.00
FHS-09	900 µm Single Fiber Holder (T-25e)	\$500.00
FHM-4	4 Count Ribbon Fiber Holder (T-25eM)	\$500.00
FHM-12	12 Count Ribbon Fiber Holder (T-25eM)	\$500.00
ER-10	Spare Electrodes (T-25e)	\$100.00
BU-HH2	Battery Unit	\$265.00
APF-03-KIT	Aerial Work Platform w/Mounting Arm	\$595.00
VGB-003-CR	V-groove Brush	\$15.00

Check out Sumitomo's Lynx Splice-On Connectors
page - 89

Splice Sleeves - page 27

Quantum TYPE-Q101-CA

Core Alignment Fusion Splicer

The Quantum Type-Q101-CA marks the new standard for fusion splicers. The Quantum is the Industry's 1st and ONLY fusion splicer with: fully navigational touch screen interface for optimum user friendliness; SD port for virtually unlimited data storage, plus favorite program, video, audio, and software uploads; remote maintenance capability; the largest fiber view; and the longest electrode life—with the legendary reliability common to all Sumitomo splicers. Although it's also the lightest, smallest, and most advanced core alignment fusion splicer in the industry, the Quantum is more ruggedized with superior dust, shock and water-proof resistance making it the ideal choice for even the harshest environments. The built-in dual heater system, a Sumitomo Electric innovation, reduces heater wait time and improves splicing efficiency by 70%, yielding a splicer with the speed, performance, and specifications that advances fusion splicing technology.

SPECIFICATIONS

RoHS	Compliant
Fiber Requirement	SMF, MMF, DSF, NZ-DSF, BIF/UBIF
Coating Diameter	100 to 1000 µm
Cladding Diameter	80 to 150 µm
Cleave Length	5-16 mm
Typical Splice Loss	SMF: 0.02dB; MMF: 0.01 dB; NZ-DSF: 0.04dB
Return Loss	<70dB
Alignment Method	High Resolution Direct Core Monitoring & 3-Axis Core Alignment
Built-In Splice Protection	Dual Independent Auto Splice Sleeve Heaters
Heater Cycle Time	28 Seconds; 60mm
Heater Programs Max/Preset	100 / 30
Typical Splice Time	7 Second Splice Time
Splice Programs Max/Preset	300 / 50
Attenuation Splicing	0.1 – 15.0dB
Interface	Touch Panel Input & Switches Built-in Audio & Video SD Memory Card, USB2.0 (USB-mini B) DC Input for Car Battery Operation
Power Requirements	Input: 100V to 240V AC; 50/60 Hz; 10-15V DC
Battery Module	Li-ion; Arc and Heater Cycle Capacity Number Displayed on Monitor
Arc Test	Auto Compensation for Environmental Conditions
Proof Test	Internal 200g
Image Display	320X Single (zoom700X) and 88X Dual Fiber Imaging; X/Y with 2 Cameras
Internal Splice Data Storage	10000 (Unlimited with SD card)
Image Storage	64
Size(mm)	120W x 154D x 130H
Display	4.1 Color, Low Glare, High Resolution Touch Screen Monitor
Wind Protection	30mph (15m/s)
Battery Operation	Standard: 200 Splices & Heater Cycles
Weight	2.1kg with Battery
Warranty	2 Year Warranty



Features:

- Dual Independent Heat Shrink Ovens
- Industry's Only High Resolution, Fully
- Navigational, Touch Screen Monitor
- Industry's Only SD Port for Virtually
- Unlimited Data Storage, Plus Favorite
- Program, Video, Audio, and Software Uploads
- Internet Interface for Remote
- Maintenance & Software Upgrades
- Industry's Only Video & Audio Playback
- Industry's Lightest Weight & Smallest
- Footprint Core Alignment Splicer
- Ruggedized Design for Shock, Water, and Dust Resistance
- Automatic Splice Start, Arc Calibration,
- Heater Start and Fiber Identification
- Hard Carrying Case with Integrated Work Platform
- Multiple Positional Monitor with Automatic Display Inversion
- Fiber Holder or Fiber Clamp Selectable
- Battery Recharges While Splicing with AC Power

ORDERING INFORMATION

TYPE-Q101-KIT-1 Quantum Fusion Splicer **\$12,990.00**

The Kit includes: Quantum Splicer, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber Protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper

TYPE-Q101-KIT-2 Quantum Fusion Splicer w/ Cleaver **\$13,790.00**

The Kit includes: Quantum Splicer, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber Protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, FC-6S-5C Fiber Optic Cleaver

Ask about our extended warranty and loaner programs for splicers!

SUMITOMO FUSION SPLICERS

Quantum TYPE-Q101-M12

Mass Fusion Splicer

The Quantum Mass marks the new standard in fusion splicing. It is the industry's first and ONLY mass fusion splicer with Automatic Clamp Force Adjustment and Live Time Clamp Force Calibration that allows for real-time fiber offset adjustment for the lowest insertion loss for splicing ribbon fiber and MPO terminations. It's the industry's fastest mass fusion splicer, taking less than 70 seconds for a 12 count fiber splice. Other industry first and ONLY features include: fully navigational touch screen for optimum user friendliness; SD port for virtually unlimited data storage, plus video, audio, and software uploads and downloads; internet interface for remote maintenance; and the longest electrode life – with legendary reliability common to all Sumitomo splicers.

Sumitomo's Quantum Mass is the industry's lightest, smallest, and most advanced mass fusion splicer, yet it's also more rugged with superior dust, shock and water-proof resistance for even the harshest environments. The built-in dual heater system, a Sumitomo Electric innovation, reduces heater wait time and improves splicing efficiency by 70%, yielding a splicer with unprecedented speed, performance, and reliability.

SPECIFICATIONS

RoHS	Compliant
Applicable Fiber Types	SMF, MMF, DSF, NZ-DSF, BIF/UBIF
Coating Diameter	0.25mm, 0.50mm, 0.90mm
Cladding Diameter	125µm
Cleave Length	10 mm
Typical Splice Loss	SMF: 0.05dB; MMF: 0.02dB; NZ-DSF: 0.08dB
Number Of Fibers	1 - 12
Built-In Splice Protection Sleeve Heaters	Dual Independent Auto Splice Sleeve Heaters with Pretension Clamps
Heater Cycle Time	55 Seconds 60mm
Heater Programs Max/Preset	100
Typical Splice Time	14 Second Splice Time
Splice Programs Max	200
Interface	Touch Panel Input & Switches, Built-in Audio & Video SD Memory Card, USB2.0 (USB-mini B), DC Input for Car Battery Operation
Power Requirements	Input: 100V to 240V AC; 50/60 Hz; 10-15V DC
DC (Battery Operation)	Standard: 110 Splices & Heater Cycles
Battery Module	Li-ion; Arc and Heater Cycle Capacity Number Displayed on Monitor
Arc Test	Auto Compensation for Environmental Conditions
Proof Test	Internal 200g
Language Selection	27
Internal Splice Data Storage	10000 (Unlimited with SD card)
Image Storage	64
Electrode Life	1,500
Display Positions	Adjustable for Optimal Work Flow
Software Update	Internet
Remote Maintenance	Yes
Size(mm)	120W x 154D x 130H
Weight	2.0 kg with battery
Display	4.1 Color, Low Glare, High Resolution Touch Screen Monitor
Shock - Free Fall	76cm from 5 sides
Weatherproof	Waterproof: IPx2, Dustproof: IP5x
Wind Protection	30 mph (15 m/s)



Features

- Industry's Only Dual Independent Heat Shrink Ovens with Auto Pretension Clamps
- Industry's Only Automatic Clamp Force Adjustment & Real-Time Clamp Force Calibration to Minimize Fiber to Fiber Offset When Ribbonizing Loose Tube Fibers or Splicing MPO Connectors
- Industry's Fastest 12 Fiber Splice Under 70 Seconds
- Industry's Only High Resolution, Fully Navigational, Touch Screen Monitor
- Industry's Only SD Port for Virtually Unlimited Data Storage, Plus Program, Video, Audio, and Software Uploads/ Downloads
- Internet Interface for Remote Maintenance & Software Upgrades
- Industry's Only Video & Audio Playback
- Industry's Lightest Weight & Smallest Footprint Mass Fusion Splicer

ORDERING INFORMATION

TYPE-Q101-M12-KIT-6RM1	<i>Quantum Mass Fusion Splicer Kit 1</i>	\$17,850.00
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The Kit includes: Quantum Mass Fusion Splicer, Precision Automatic Blade Rotation, Fiber Cleaver, Heated Jacket Remover, Power Cord, V-Groove Brush, Spare Electrodes, Manual, 250µm Holders, 12ct. Ribbon Fiber Holders, Hard Case

TYPE-Q101-M12-KIT-6RM2	<i>Quantum Mass Fusion Splicer Kit 1 w/ Ribbonizing Tool and Consumable Kit</i>	\$18,500.00
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The Kit includes: Quantum Mass Fusion Splicer, Ribbonizing Tool, Consumable Kit, Precision Automatic Blade Rotation, Fiber Cleaver, Heated Jacket Remover, Power Cord, V-Groove Brush, Spare Electrodes, Manual, 250µm Holders, 12ct. Ribbon Fiber Holders, Hard Case

TYPE-Q101-M12-KIT-MPO1	<i>Quantum Mass Fusion Splicer Kit 2</i>	\$18,750.00
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The Kit includes: Quantum Mass Fusion Splicer, Cleaver, Heated Jacket Remover, Power Cord, V-Groove Brush, Spare Electrodes, Manual, Hard Case, Lynx2 MPO Tool Kit Including Assembly, Work Platform, Consumable Kit

TYPE-Q101-M12-KIT-MPO2	<i>Quantum Mass Fusion Splicer Kit 2 w/ Battery</i>	\$18,950.00
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The Kit includes: Quantum Mass Fusion Splicer, Cleaver, Heated Jacket Remover, Power Cord, V-Groove Brush, Spare Electrodes, Manual, Hard Case, Lynx2 MPO Tool Kit Including Assembly, Work Platform, Consumable Kit, Battery

Quantum TYPE-Q101-VS

V-Groove Fusion Splicer

The Sumitomo Quantum Type-Q101-VS V-Groove Fusion Splicer is the industry's first and only v-groove splicer with fully navigational touch screen monitor for optimum user friendliness, internet interface for remote maintenance and software upgrades, SD port for virtually unlimited data storage plus video, audio, and software uploads and downloads. Like all Quantum Fusion Splicers, the new Quantum VS is the industry's only v-groove splicer with patented dual independent heat shrink ovens.



SPECIFICATIONS

RoHS	Compliant
Applicable Fiber Types	SMF, MMF, DSF, NZ-DSF, BIF/UBIF
Coating Diameter	0.25mm, 0.5mm, 0.9mm
Cladding Diameter	125µm
Cleave Length	10mm
Typical Splice Loss	SMF: 0.05dB; MMF: 0.02 dB; NZ-DSF: 0.08dB
Alignment Method	Fixed V-Groove (Diameter Alignment)
Built-In Splice Protection Sleeve Heaters	Dual Independent Auto Splice Sleeve Heaters
Heater Cycle Time	28 Seconds; 60mm
Heater Programs Max/ Preset	100 / 30
Typical Splice Time	9 Second Splice Time
Splice Programs Max/ Preset	200 / 50
Interface	Touch Panel Input & Switches, Built-in Audio & Video, SD Memory Card, USB2.0 (USB-mini B), DC Input for Car Battery Operation
Power Requirements	Input: 100V to 240V AC; 50/60 Hz; 10 -15V DC
DC (Battery Operation)	Standard: 180 Splices & Heater Cycles
Battery Module	Li-ion; Arc and Heater Cycle Capacity Number; Displayed on Monitor
Arc Test	Auto Compensation for Environmental Conditions
Proof Test	Internal 200g
Language Selection	7
Internal Splice Data Storage	10000 (Unlimited with SD card)
Image Storage	64
Electrode Life	2,500
Display Positions	Adjustable for Optimal Work Flow

Features

- Dual Independent Heat Shrink Ovens that Eliminate Heat Shrink Waiting Time, Increasing Splicing Efficiency by 70%
- High Resolution, Fully Navigational, Touch Screen Monitor for Optimum User Friendliness
- Internet Interface for Remote Maintenance & Software Upgrades
- SD Port for Virtually Unlimited Data Storage; Plus Program, Video, Audio and Software Uploads/Downloads
- Video & Audio Playback
- Industry's Most Advanced V-Groove Fusion Splicer, Yet Economically & Competitively Priced
- Ruggedized Design for Shock, Water, and Dust resistance
- Automatic Splice Start, Arc Calibration, Heater Start
- Hard Carrying Case with Integrated Work Platform
- Multiple Positional Monitor with Automatic Display Inversion
- Typical Splice Time: 9 seconds
- Battery Recharges While Splicing with AC Power
- Long Life Battery
- Lynx2 CustomFit® Splice-On Connector Compatibility
- Large Fiber View and Long Electrode Life
- Typical Splice Loss: SMF:0.05dB;MMF: 0.02dB
- Return Loss: <-70dB
- RoHS Compliant

ORDERING INFORMATION

Type-Q101-VS-KIT-1	<i>Quantum V-Groove Mass Fusion Splicer Kit</i>	\$4,885.00
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The Kit includes: Type-Q101-VS Quantum Splicer, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, 250µm & 900µm Fiber Holders, Cleaning Tools

Type-Q101-VS-KIT-2	<i>Quantum V-Groove Mass Fusion Splicer Kit w/ Fiber Optic Cleaver</i>	\$5,385.00
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The Kit includes: Type-Q101-VS Quantum Splicer, FC-6S-C Fiber Optic Cleaver, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, 250µm & 900µm Fiber Holders, Cleaning Tools

Type-Q101-VS-KIT-2R	<i>Quantum V-Groove Mass Fusion Splicer Kit w/ Hand-Held Blade Rotation Cleaver</i>	\$5,585.00
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The Kit includes: Type-Q101-VS Quantum Splicer, FC7R Hand-Held Automatic Blade Rotation Cleaver, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, 250µm & 900µm Fiber Holders, Cleaning Tools

Type-Q101-VS-KIT-6RSC	<i>Quantum V-Groove Mass Fusion Splicer Kit w/ Bench Top Blade Rotation Cleaver</i>	\$5,585.00
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The Kit includes: Type-Q101-VS Quantum Splicer, FC6RS-C Precision Bench Top Automatic Blade Rotation Cleaver, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, 250µm & 900µm Fiber Holders, Cleaning Tools

INNO FUSION SPLICERS

IFS-10 Smart ARC Fusion Splicer

INNO Fiber Master IFS-10 Core-Alignment Fusion Splicer with the New DACAS (Digital Analysis Core Alignment System) is one of the most dependable splicers on the market. The Fiber Master splicer features a rubberized design for field use in harsh weather conditions. The IFS-10 has a friendly, intuitive GUI (Graphical User Interface) with a 5 inch color LCD screen that is easy to see and is adjustable for front and rear splicer orientation. The impressive, large battery capacity at full charge allows for up to 350 splices. The IFS-10 splicer is truly the most reliable and user friendly Core Alignment splicer in the world.

SPECIFICATIONS

Alignment Method	Core Alignment DACAS (Digital Analysis Core Alignment System)
Applicable Fibers	SM (ITU-TU.652), MM (ITU-TU.651), DS (ITU-T G.653), NZDS (ITU-T G.655), G657A, G657B
Average Loss	SM (0.02dB) MM (0.01dB) DS (0.04dB) NZDS (0.04dB)
Return loss	>> 60 dB
Electrode Lifespan	> 2,500 arcs
Cladding Diameter	80-150um
Coating Diameter	100-1000um
Typical Splice Time	9s average SM 7s SM Quick Mode
Cleaved Length	Coating diameter < 0.25mm = 8-16mm, Coating diameter > 0.25mm = 16mm minimum
Heating Programs	10 Preset heating modes
Heating Time	FP-03 typical heating time 35s
Protection Sleeve	10mm, 20mm, 30mm, 40mm, 50mm, 60mm
Data Output	USB master device and COM
Splice Programs	100 user mode programs
Splice Memory	Up to 2000 records
Battery	Typical full cycle 350 Splice and Heat
Power Supply	AC 100-240V input or DC 18V
Monitor	Color 5" LCD monitor, with tempered glass
Cameras	2 CCD camera system
Magnification	XY style: 150 power, X/Y: 300 power
Fiber Display	X/Y or XY, single X.Y
Weight	2.2KG (without battery)
Size	155 x 130 x 143mm (excluding rubber bumper)
Wind Protection	max wind speed 15m/s
Operating Environment	Elevation 0-5000 meters, -10~50°C, ~95% relative humidity
Storage Condition	Temperature -40 to 80°C, ~95% relative humidity
Warranty	3 year warranty



Features

- 2.2 kg weight (without battery)
- Splicing method : DACAS (Digital Analysis Core Alignment System)
- Harsh weather conditions adaptability
- Friendly smart GUI
- Large battery capacity: 350 Splice and Heat Cycles
- Quick optimize menu
- High precision splicing
- USB master port, easy to upgrade software
- Operate in bi-directional view



ORDERING INFORMATION

IFS-10	IFS-10 Splicer	\$9,900.00
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The Kit includes: IFS-10 Splicer, High Precision Cleaver, Battery Pack, AC Adapter/Battery Charger, Power Cable, Extra Electrodes, Carrying Case, Cooling Tray, Cigarette Lighter Cable, RS-232 Cable, Software CD

Ask about our extended warranty and loaner programs for splicers!

IFS-15H

FTTx ARC Fusion Splicer

The IFS-15H core-alignment fusion splicer with the new DACAS (Digital Analysis Core Alignment System) is one of the most dependable splicers on the market. The IFS-15H has a user friendly, intuitive GUI (Graphical User Interface) with a 4.3 inch high resolution color LCD screen that is easy to see and use. With the compact size of the fusion splicer (155mm x 130mm x 137mm) and the portable carrying case, the IFS-15H FTTH Master brings much more convenience to customers who work in the FTTx field. Besides its compact size, the most significant innovation is the compatibility. The IFS-15H is compatible with most widely used fibers and cables, including splice-on connectors. It combines the functions of both splicing and heating for those cables which are popular in FTTx: 250µm fiber, 900µm fiber, flat cable, fiber jumper and splice-on connector.

SPECIFICATIONS

Applicable Fibers	SM(ITU-TG.652)/MM(ITU-TG.651)/DS(ITU-TG.653)/NZDS(ITU-TG.655)/ITU-TG.657A/ITU-TG.657B
Compatible Fiber / Cable	0.25mm/0.9mm/2.0mm/2.4mm/3.0mm/ Flat cable
Fiber Count	Single Core
Fiber Holder	Detachable (Standard: FH-40, Optional: FH-10, FH-ST, FH-SC)
Fiber Diameter	Cladding:80-150µm/Coating:100-1000µm
Fiber Cleave Length	Diameter 250µm-1000µm: cleave length 8-16mm
Splice Mode	Max/Preset 64/24
Typical Splice Loss	SM:0.02dB/MM:0.01dB/DS:0.04dB/NZDS:0.04dB/G.657:0.02dB (ITU-T Standard)
Return Loss	>>60dB
Splicing Time	SM Quick Mode: 7seconds
Attenuation Splicing	0.1dB-20dB (0.1dB step)
Heat Oven / Heating Time	Heat Mode: 32/Heating Time (Typical): 35 seconds
Applicable Protection Sleeve Length	10mm, 20mm, 30mm, 40mm, 50mm, 60mm
Results Storage	The last 2000 results
Mechanical Proof Test	1.96~2.25N [Based on the fiber count]
Operating Condition	Operating Altitude: 0-5000 meter above sea level, 95% relative humidity, -10~50°C, Max Wind 15 m/s
Storage Condition	0~95% relative humidity, -40~80°C, Battery: -20~ 30 °C
Fiber View & Magnification	X/Y 300X, X/Y 180X
Display	2 Cameras and 4.3 inch color LCD monitor (with high resolution shock-proof protected surface)
Power	DC 18V Power Supply
Weight	1.82kg without battery
Size	155 x 130 x 137 (LxWxH)
No of Splice / Heating with Battery	Typical 160 times (Splice + Heat) / Splice + Heat= 26.7mA / Time Battery:4200mAh
Electrode	>2500 Times Splicing
Terminal	USB 2.0/RS232 (for storage and upgrading)
Warranty	3 year warranty



Features

- 1.82 kg weight (without battery)
- Splicing method : DACAS (Digital Analysis Core Alignment System)
- Friendly, smart GUI
- Quick optimize menu
- High precision splicing
- USB master port, easy to upgrade software
- Universal holder
- Detachable SOC holder
- Detachable SOC heating oven
- FTTH fitted package



ORDERING INFORMATION

IFS-15H	IFS-15H Splicer	\$8,800.00
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The Kit includes: IFS-15H Splicer, High Precision Cleave, Indoor Cable Stripper, Stripper, Protector, Working Head Lamp, Battery Pack, Cooling Tray, Power Cable, AC Adapter, Electrode, Software CD, HCK Working Table, HCK Carrying Case, Cigarette Lighter Cable

Ask about our extended warranty and loaner programs for splicers!

FITEL FUSION SPLICERS

S123C ver.2

Fixed V-Groove Fusion Splicer

The S123C Hand-Held Clad-Alignment Fusion Splicer has been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process. Splicing Drop/Indoor cable is possible with newly designed kits.

With its low profile design and light weight body the S123C offers single fiber splicing with outstanding mobility and extreme ease-of-use. In addition, the rugged body is designed to endure harsh operating conditions by improving shock/impact resistance with rubber pads embedded on 4 corners of the splicer body. It achieves water resistance compliant IPX2 and dust resistance compliant IP5X. The fast 13 seconds splice time and 25 seconds protection sleeve shrink time offers a highly efficient work environment. Large battery capacity makes it possible to perform 70 cycles of splicing and heating, while it offers SOC solution as well. By combining portability, ease of use, improved speed and durability, the S123C becomes an excellent option for use in the conventional telecommunications industry.

SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)
Cladding Diameter	125 µm
Coating Diameter	250 to 900 µm for single fiber
Fibers Cleave Length	5 to 10 mm or 16 mm
Average Splice Loss	SM: 0.05 dB, MM: 0.02 dB, DSF 0.08 dB, NZD 0.08 dB
Splice Time	13 seconds
Heat Time	25 seconds (S922: 40 mm sleeve, S921: 60 mm sleeve) (Pre-heat mode) 31 seconds (S922: 40 mm sleeve, S921: 60 mm sleeve) (Regular mode)
Splice Programs	Max. 150
Heat Programs	Max. 18
Applicable Sleeves	20/40/60 mm
Tension Test	1.96 N
Return Loss of Splice	60 dB or more
Magnification	58X
Splice Memory	Max. 1500
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Size (WxDxH)	127 × 199 × 81 mm (not including shock absorber) 159 × 231 × 104 mm (including shock absorber)
Weight	1.4 kg (without battery), 1.6 kg (with battery)
Monitor	3.5" color LCD monitor
Battery Capacity	Typical 70 splice/heat cycles with S943B battery
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temp	-10 to 50°C (without excessive humidity)
Storage Temp	-40 to 60°C (without excessive humidity)
Humidity	0 to 95% RH (non-condensing)
Power Source	AC input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware



Features

- Internal battery charging
- Illumination lamp lights up a wide area around V-grooves
- Splicer is compatible with the Seikoh Giken and Diamond Splice-on-connector (SOC)
- Available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers (e.g. EZ-Bend)
- Easy maintenance Tool-less electrode replacement/mirror free alignment system
- Easily exchanged fiber holder systems (tight holder/fiber holder/SOC holder)
- Splicing Drop/Indoor cable is available
- PC interface software to allow user manage splicing programs and results
- Improved GUI to further enhance ease-of-use
- RoHS compliant

ORDERING INFORMATION

S123C *S123C ver.2 Fusion Splicer Kit* **Call For Price**

Kit includes: S123C Main Body, Soft Carrying Case, Hard Carrying Case, Battery Pack, Spare Electrodes, AC Adaptor for S123C and S958C, AC Cable Cord, Electrode Sharpener, Cleaning Brush, Tool Case, Manual

OPTIONAL ACCESSORIES AND SUPPLIES

S943	<i>Extra Li-Ion Battery</i>	\$150.00
S957B	<i>AC Adapter</i>	\$50.00
S966	<i>Replacement Electrodes (pair)</i>	\$125.00
D5111	<i>Electrode Cleaning Disk</i>	\$20.00
FPF-01	<i>Fiber Preparation Fluid</i>	\$13.00
FW-01	<i>Fiber Wipes</i>	\$7.00

OPTIONAL ACCESSORIES AND SUPPLIES

S218R	<i>Thermal Stripper</i>	\$1,325.00
JIC-375	<i>3 Hole Strippers</i>	\$24.00
S211B	<i>Fiber Stripper</i>	\$35.00
S709S-250	<i>250µm Fiber Holders (pair)</i>	\$450.00
S709S-900	<i>900µm Fiber Holders (pair)</i>	\$500.00

Ask about our extended warranty and loaner programs for splicers!

S153A ver.2

Fixed V-Groove Fusion Splicer

The S153A Active 3 Axis Cladding Alignment Fusion Splicer has been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process.

S153A is the first choice for low cost field splicing equipment. The Active V-Groove technology used on the S153A delivers low loss splices with ease while eliminating common Fixed V-Groove splicing errors. Using the rugged metal body, the S153A is designed to endure harsh operating conditions by improving shock/impact resistance with rubber pads embedded on 4 corners of the splicer body. It also achieves water resistance compliant to IPX2 and dust resistance compliant to IP5X.



SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend insensitive fiber, ITU-T G.657)
Cladding Diameter	80~150 μ m
Coating Diameter	100~1,000 μ m
Fibers Cleave Length	5~16 mm
Average Splice Loss	SM: 0.04 dB, MM: 0.02 dB, DSF: 0.06 dB, NZD: 0.06 dB
Splice Time	9 seconds (semi-auto mode) 11 seconds (regular mode)
Heat Time	25 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (Pre-heat mode) 31 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (regular mode)
Splice Programs	Max 150
Heat Programs	Max. 18
Applicable Sleeves	20/40/60 mm
Tension Test	1.96 N
Return Loss of Splice	60 dB or greater
Magnification	76X, 235X
Splice Memory	Max. 2,000
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Size (WxDxH)	127 x 199 x 105 mm (not including shock absorber) 159 x 231 x 130 mm (including shock absorber)
Weight	1.7 kg (without battery) 2.1 kg (with two batteries)
Monitor	3.5" color LCD monitor
Battery Capacity	Typical 80 splice/heat cycles with single battery Typical 200 splice/heat cycles with 2 batteries
Altitude	5,000 mh
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temp	-10 to +50°C (0 to 95% Relative Humidity [Non-Condensing])
Storage Temp	-40 to +60°C (0 to 95% Relative Humidity [Non-Condensing])
Humidity	0 to +95% RH (non-condensing)
Power Source	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware

Features

- Internal battery charging
- Illumination lamp lights up a wide area around V-grooves
- User friendly LCD display offers 4 different X/Y image layouts
- Simplified splice result indicator red / green icon
- Active V-groove, More Reliable than conventional Fixed V-groove machines
- Splice programs available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers (e.g. EZ-Bend TM)
- Splicer is compatible with the Seikoh Giken and Diamond Splice- on-connector (SOC)
- Easy maintenance electrode replacement/mirror free alignment system
- Simplified program fusion and heater programming
- Easily exchanged fiber holder systems
- Improved GUI enhancing ease-of-use
- RoHS compliant

ORDERING INFORMATION

S153A *S153A ver.2 Fusion Splicer Kit* **Call For Price**

Kit includes: S153A Main Body, Hard Carrying Case, Battery Pack, Spare Electrodes, AC Adaptor for S153A and S958C, AC Cable Cord, Electrode Sharpener, Cleaning Brush, Tool case

FITEL FUSION SPLICERS

S178A ver.2

Core-Alignment Fusion Splicer

The S178A Hand-Held Core-Alignment Fusion Splicer has been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process.

Although the S178A is significantly smaller and lighter in weight than previous models, its canopy design, durable metal body frame and rubber protection corners provide robust protection. This enables use in demanding environments without compromising splicing performance. Along with its rugged durability, the splicer also offers convenience. An internal battery system allows up to 200 splicing cycles (splicing/heating) and an innovative, mirror-free alignment system reduces maintenance work.

SPECIFICATIONS

Applicable Fibers	SM, MM, DSF, NZD, EDF, BIF/UBIF (Bend insensitive fiber)
Cladding Diameter	80~150 μ m
Coating Diameter	100~1,000 μ m
Fibers Cleave Length	5~16 mm
Average Splice Loss	SM: 0.02 dB, MM: 0.01 dB, DSF: 0.04 dB, NZD: 0.04 dB
Splice Time	7 seconds (semi-auto mode) 9 seconds (regular mode)
Heat Time	25 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (Pre-heat mode) 31 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (regular mode)
Splice Programs	Max. 150
Automatic Splicing Selection	SM: SM, DSF, NZD, BIF/UBIF, MM: MM
Heat Programs	Max. 18
Automatic Heating	Available
Applicable Sleeves	20/40/60 mm
Fiber Holding	Tight holder (Loose tube applicable) or Removal Fiber Holder System
Tension Test	1.96 N
Return Loss of Splice	60 dB or greater
Attenuation Splice Function	Intentional high splice loss of 0.1dB to 10dB (0.1dB step) can be made for an inline fixed attenuator
Image Magnification	304X, 608X
Splice Memory	Max. 2,000
Image capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Dimension (WxDxH)	127 x 199 x 105 mm (not including shock absorber) 159 x 231 x 130 mm (including shock absorber)
Weight	1.9 kg (without battery) 2.3 kg (with two batteries)
Monitor	3.5" Color LCD monitor
Data Output	USB ver.2.0 mini
Battery Capacity	Typical 80 splice/heat cycles with single battery Typical 200 splice/heat cycles with 2 batteries
Altitude	5,000 mh
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temp	-10 to +50°C (0 to 95% Relative Humidity [Non-Condensing])
Storage Temp	-40 to +60°C (0 to 95% Relative Humidity [Non-Condensing])
Humidity	0 to +95% RH (non-condensing)
Power Source	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V



Features

- Internal battery charging
- Illumination lamp lights up a wide area around V-grooves
- User friendly LCD display offers 4 different X/Y image layouts
- Simplified splice result indicator red / green icon
- Fast splice (7 sec) at super low loss and Fast Heating (25 sec)
- Splice programs available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers (e.g. EZ-Bend™)
- Splicer is compatible with the Seikoh Giken and Diamond Splice-on-connector (SOC)
- Easy maintenance electrode replacement /mirror free alignment system
- Easy Software upgrade via the Internet
- PC interface software to allow user manage splicing recipes and splicing results
- RoHS compliant

ORDERING INFORMATION

S178A	<i>S178A Hand-Held Core-Alignment Fusion Splicer</i>	Call For Price
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The Package includes: S178A Main Body, Hard Carrying Case, Battery Pack, Spare Electrodes, AC Adaptor for S178A and S958C, AC Cable Cord, Electrode Sharpener, Cleaning Brush, Tool case, Manual

OPTIONAL ACCESSORIES AND SUPPLIES

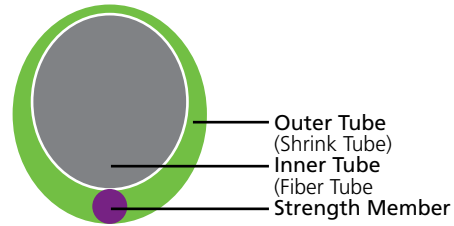
SCC-01	<i>Soft Carrying Case</i>	\$136.00
FO-103-T-250-J	<i>Miller Tri-hole Stripper</i>	\$75.22
PRO-TK-TECH	<i>Technician's Cleaning Kit</i>	\$97.00
WBT-01	<i>Working Belt</i>	\$450.00
USB-01	<i>USB Cable</i>	\$15.00
CDC-01	<i>Car Cigarette Cable</i>	\$150.00
Fiber Holder Options		
S712S-160	<i>160 μm fiber holders</i>	\$750.00
S712S-250	<i>250 μm fiber holders</i>	\$450.00
S712S-500	<i>500 μm fiber holders</i>	\$450.00
S712S-900	<i>900 μm fiber holders</i>	\$450.00

**Ask about our extended warranty
and loaner programs for splicers!**

FOM Standard Sleeve - (3.0 MM After Shrink)

This sleeve design is the industry's highest quality, most reliable and most economical. Standard lengths include 60mm and 40mm. Sleeves come standard with a clear outer tube for viewing the color of the fiber itself, and a steel wire for support and stability.

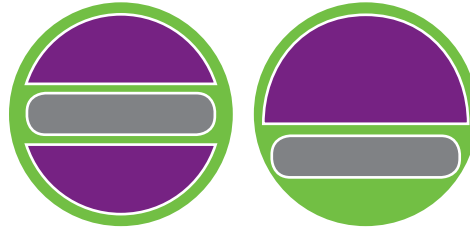
FOM-1002	60mm Clear Splice Sleeves	\$0.55
FOM-100240	40mm Clear Splice Sleeves	\$0.55
FOM-1002R	60mm Red Splice Sleeves	\$0.55



FOM Ribbon Sleeves

FOM offers two ribbon sleeve style: Dual Strength Member and Single Strength Member. The Dual Strength Member design eliminates any undue stress on the ribbon, creating a perfectly flat exit for the ribbon. Also available with a ceramic strength member.

FOM-100240R	Single Strength, 40mm Clear	\$0.65
FOM-10112DP	Dual Strength, 40mm Clear	\$1.20

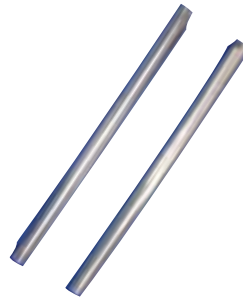


Dual Strength Member Single Strength Member

Micro Sleeve & Mini Sleeve

Designed to fit in smaller splice storage areas, the Micro protection sleeves will accommodate 250µm coated fibers and have an after-shrink diameter of 1.5mm. The Mini Sleeves will accommodate 900µm or 250µm coated fibers, and have an after-shrink diameter of 2.0mm.

MCRO140CFD-50	40mm Clear - Micro Splice Sleeves (50pk)	\$32.50
MCRO125CFD-50	25mm Clear - Micro Splice Sleeves (50pk)	\$27.50
MINI140CDS-50	40mm Clear - Mini Splice Sleeves (50pk)	\$32.50
MINI140CDS-50	25mm Clear - Mini Splice Sleeves (50pk)	\$32.50



**Splice Sleeve
Bulk Order
Discounts
Available!**

Call 877.529.9114

CamSplice Mechanical Splice

This easy to install one size fits all mechanical splice features "Cam" locking mechanism, which requires no adhesive. The CamSplice incorporates a unique alignment method that self-centers fibers, providing accurate alignment. Splice losses of less than 0.05dB are consistently achievable. Fits 250/250µm, and 250/900µm or 900/900µm applications (one size fits all).

95-000-04	CamSplice™ Mechanical Splice (Pack of 6)	\$146.67
2104040-01	CamSplice™ Mechanical Splice Assembly Fixture	\$246.88



3M™ Fibrlok Mechanical Splice

The Universal Fibrlok Splice has an insertion loss <.2dB with a fiber retention of >.7.75 lbs. Known for low reflection characteristics of -35dB. Using V groove technology, it requires no epoxy. Uses Fibrlok assembly tool 2501. Splice completed in 30 seconds after preparing fiber ends. Thermal stability of -40°C TO 80°C.

2529	Universal Fibrlok Mechanical Splice	\$10.21
2501	Fibrlok Mechanical Splice Assembly Tool	\$71.70
2612	Multi-Fiber Optical Splice (12 Fiber Ribbon)	\$48.00



ULTRAsplice® Mechanical Splice

The ULTRAsplice® is a high performance, easy to install tunable and reusable mechanical splice. One splice accepts any combination of buffer sizes from 250µm to 900µm. Average loss is less than .2dB with fiber retention of over 2 lbs.

US-126	Singlemode Universal Ultrasplice® Mechanical Splice	\$7.95
US-128	Multimode Universal Ultrasplice® Mechanical Splice	\$7.95
FSHLDR	Ultrasplice® Mechanical Splice Plastic Sleeve Holder for Splice Trays	\$1.50
USMOD	Ultrasplice® Mechanical Splice Installation Holder	\$0.90



EXFO OTDRS

AXS-110

Handheld OTDR

Easy Location and Characterization of Events

EXFO's AXS-110 All-Fiber OTDR helps you boost test productivity for inside-plant applications. Its exceptional 0.8 m event dead zone enables you to easily locate and characterize all events between the transmitter and the central office's fiber, access and FTTH network applications, where events are usually closely spaced.

Multimode and Singlemode Flexibility

The AXS-110 combines singlemode and multimode functionalities, ideal for premises, private and enterprise network testing. Test multimode fiber within premises, or singlemode fiber between premises—all with a single OTDR unit—and maximize your return on investment.

End-to-End PON Characterization

The AXS-110 lets you test through high-port-count splitters—even 1 x 64 splitters—perfect for passive optical network (PON) testing.



SPECIFICATIONS

Wavelength (nm)	850/1300/1310/1550
Event Dead Zone (m)	0.8
Attenuation Dead Zone (mm)	3.5/4.5/4/4.5
Dynamic Range (dB)	24/25/37/35
Distance Range (km)	MM: 0.1 to 40 / SM: 0.65 to 260
Data Points	Up to 64,000
Storage Capacity	500 traces
Ports	USB, RJ-45
Trace File Format	Bellcore (.sor, Telcordia SR-4731)
Operating Temperature	–18 °C to 50 °C (14 °F to 122 °F)
Operating Temperature	–40 °C to 70 °C (–40 °F to 158 °F)
Relative Humidity	0 % to 95 % non-condensing
Size (H x W x D)	250 mm x 125 mm x 75 mm (9 7/8 in x 4 15/16 in x 3 in)
Weight	1 kg (2.2 lb)

Power Meter

Calibrated wavelengths (nm)	850, 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625
Power range (dBm)	26 to –64 (GeX 2 mm)
Uncertainty	±5 % ± 0.4 nW (up to 5 dBm)
Display resolution (dB)	0.01 (–54 dBm to P max), 0.1 (–54 dBm to –64 dBm), 1 (–64 dBm to min)
Tone detection (Hz)	270/1000/2000

CONFIGURATIONS

PART #	WAVELENGTHS					DYNAMIC RANGE	EVENT DEADZONE	ATTENUATION DEADZONE	PRICE
	850	1300	1310	1550	1625				
AXS-110-23B			•	•		37/35 dB	0.8 m	4/4.5 m	\$5,995.00
AXS-110-12CD	•	•				24/25 dB	0.8 m	3.5/4.5 m	\$6,895.00
AXS-110-12CD23B	•	•	•	•		24/25/32/30 dB	0.8 m	3.5/4.5/4/4.5 m	\$9,795.00

Features

- FasTrace function: one-touch testing for top user-friendliness
- 8-hour power autonomy
- USB port (memory-stick compatible) for easy data transfer
- Large internal memory (up to 500 results)
- Transflective color display for viewing clear results under bright sunlight
- Superior automated analysis for a better, easier and faster diagnosis
- Automatic pass/fail analysis and macrobend locating

AXS-110 All-Fiber OTDR

Combining singlemode and multimode capabilities for enterprise, campus and access networks, this model offers the 850, 1300, 1310 and 1550 nm wavelengths, with respective dynamic ranges of 24, 25, 32 and 30 dB.

AXS-110 Singlemode OTDR

Ideal for FTTH/access and CATV testing, this model is optimized for testing through PON-based splitters; it offers the 1310, 1490, 1550 and 1625 nm wavelengths, with respective dynamic ranges of 37, 33, 35 and 37 dB.

AXS-110 Multimode OTDR

Optimized for enterprise testing on both 50 and 62.5 µm multimode fiber, this model offers the 850 and 1300 nm wavelengths, with respective dynamic ranges of 24 and 25 dB.

FTB-1

Handheld Modular Test Platform

The result of EXFO's time-proven expertise in portable platform design, the FTB-1 Platform is an open testing solution for network infrastructure construction and troubleshooting. The FTB-1's built-in intelligence empowers frontline technicians to take field-testing efficiency to the next level. Thanks to a highly "connected" set of tools—including Update Manager and compatibility with the EXFO Connect environment, which provides end-to-end operational visibility and centralized reporting capabilities throughout the entire test instrument pool—the FTB-1 delivers maximum return on your investment.

Adapted for Dedicated Applications. Dedicated to Helping You Adapt.

Thanks to its small format, ultra-powerful processing and highly intuitive interface, the FTB-1 is optimized to allow field technicians to carry out dedicated FTTH and Ethernet test applications simply and efficiently.

Access Network Testing Using the FTB-720 LAN/WAN Access OTDR

On the strength of best-in-class specifications and four test wavelengths, the FTB-720 LAN/WAN Access OTDR is optimized for fiber-optic contractors and private network operators, enabling them to fully test and qualify any type of fiber network.

FTTH Testing Using the FTB-730 PON FTTx/MDU OTDR

With a dynamic range of up to 39 dB and enabling power meter and visual fault locator functionalities, the FTB-730 PON FTTx/MDU OTDR module allows fiber installers to seamlessly characterize splitters in PON FTTx and multiple dwelling unit (MDU) applications.

Multiservice Testing Using the FTB-880 NetBlazer Multiservice Tester

The FTB-880 NetBlazer allows field technicians to easily turn up, validate and troubleshoot DSn/PDH, SONET/SDH and Ethernet services up to 10 Gbit/s in converged optical networks.

Ethernet Testing Up to 10G Using FTB-860 NetBlazer Ethernet Tester

The FTB-860 NetBlazer Ethernet Tester enables field technicians to quickly and easily turn up, validate and troubleshoot Ethernet services, with full EtherSAM capabilities, from 10 Mbit/s to 10 Gbit/s.

Software Test Tools

This series of platform-based software testing tools enhance the value of the FTB-1 Platform, providing additional testing capabilities without the need for additional modules or units.



Features

- USB, mobile, Wi-Fi and Bluetooth connectivity capabilities
- Supports third-party applications and all the tools that enable technicians to complete their work right in the field
- Lets you take advantage of the EXFO Connect environment to manage field testing/reporting operations as well as your platform pool
- Intel ATOM processor with Windows Embedded Standard operating system, for optimized productivity and versatility
- Latest battery technology for unmatched operation autonomy
- One GigE port and two USB 2.0 ports
- Windows Remote Assistance and Remote Control
- EXFO fiber inspection probe connector interface
- Display: TFT outdoor-enhanced LCD, 7-inch touchscreen
- Telcordia-compliant

SPECIFICATIONS

Display	Touchscreen, color, 800 x 480 TFT, 178 mm (7 in)
Interfaces	Two USB 2.0 ports RJ-45 LAN 10/100/1000 Mbit/s Fiber inspection probe connector port (video) Built-in Bluetooth and Wi-Fi (hardware option)
Storage	8 GB internal memory (flash) 16 GB internal memory (flash), optional
Batteries	Rechargeable lithium-ion batteries 8 hours of operation as per Telcordia* (Bellcore) TR-NWT-001138
Power supply	AC/DC adapter, input 100-240 VAC, 50-60 Hz, 1.6 A max, output 24 VDC, 3.75 A
Computer	Intel ATOM processor Windows Embedded Standard operating system
Size (H x W x D)	190 mm x 252 mm x 66 mm (7 1/2 in x 9 15/16 in x 2 5/8 in)
Weight (w/battery)	1.5 kg (3.3 lb)
Temperature	Operating: 0 °C to 50 °C (32 °F to 122 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	0 % to 95 % non-condensing

ORDERING INFORMATION 720

TK1-720-023B-04	1310/1550/1625 PON	\$11,535.00
TK1-720-023B-XX	1310/1550nm	\$6,405.00
TK1-720-12CD-XX	850/1300nm	\$7,985.00
TK1-720-12CD23B	850/1300/1310/1550	\$10,455.00
TK1-720i-023B-X	1310/1550nm iOLM	\$6,405.00
TK1-720i-12CD23	850/1300/1310/1550	\$10,455.00
TK1-QUAD-PM-VFL	Custom QUAD OTDR Pkg.	\$11,775.00

ORDERING INFORMATION 730

TK1-730-023B-04	1310/1550/1625 iOLM	\$13,155.00
TK1-730-023B-XX	1310/1550nm iOLM	\$8,385.00
TK1-730-034B-XX	1550/1625nm iOLM	\$10,905.00
TK1-730-0i-SVP	Custom FTB-1 OTDR/iOLM Pk	\$14,665.00
TK1-730i-236B	1310/1490/1550 iOLM	\$12,355.00

Single mode and Quad only. Other configurations available

EXFO OTDRS

FTB-200

Compact Modular Test Platform

Testing today's networks requires a supertech. EXFO understands that technicians need to span various mediums, layers and technologies. With this reality in mind, EXFO designed the FTB-200 Compact Platform for multilayer, multimedium testing.

The FTB-200 was designed for supertechs in the field that perform tests on optical and copper for metro/access and FTTx networks. This task requires a compact platform optimized for time-efficient automated tests and in-depth troubleshooting and analysis. The FTB-200 is ideal for testing.

Bidirectional trace analysis*

Improve the accuracy of your loss measurements with the bidirectional averaging feature, which uses OTDR acquisitions from both ends of a fiber span to average loss results for each event.

Efficient multifiber testing with Template Trace

Reduce testing time when commissioning a large number of fibers by using the Template Trace mode. This mode dynamically compares new OTDR results with a trace you assign as a reference. Reference trace documentation is automatically pasted onto new acquisitions to save you time.

Professional report generation

User-configurable test reports and batch printing let you generate complete, professional OTDR reports quickly and efficiently.

SPECIFICATIONS

Display	Touchscreen, color, 640 x 480 TFT 163 mm (6 7/16 in)
Storage	Internal 80 MB (Flash) USB sticks 1 GB and 2 GB (optional) Compact Flash cards (optional)
Battery type	Rechargeable Li-Ion 8 h of operation as per Bellcore TR-NWT-001138
Size (H x W x D)	322 mm x 197 mm x 109 mm
Weight	5.4 lb
Operating temperature	23 °F to 122 °F
Storage temperature	-40 °F to 158 °F
Vibration	< 1.5 g at 10 Hz to 500 Hz (on three main axes)
Mechanical shock	< 760 mm on six sides and eight main edges (according to GR-196-CORE)

POWER METER SPECIFICATIONS

Calb. Wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to -86 (InGaAs) 26 to -64 (GeX)
Uncertainty (%)	±5 % ± 3 pW (InGaAs) ±5 % ± 0.4 nW (GeX)
Display resolution (dB)	InGaAs 0.01 = max to -76 dBm 0.1 = -76 dBm to -86 dBm 1 = -86 dBm to min GeX 0.01 = max to -54 dBm 0.1 = -54 dBm to -64 dBm 1 = -64 dBm to min
Automatic offset nulling range	Max power to -63 dBm for InGaAs Max power to -40 dBm for GeX
Tone detection (Hz)	270/1000/2000



Features

- Modules that test up to four wavelengths
- FTTx-optimized modules that combine multimode and singlemode network functions
- Future-proof - compatible with future module designs
- Backward compatible with the FTB-7000B/C generation OTDRs and FTB-3930 OLTs
- Rugged design meeting GR-196-CORE requirements
- Extended battery life of up to 8 hours for OTDR modules

BUILT-IN POWER METER SPECIFICATIONS

Calb. Wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to -86 (InGaAs) 26 to -64 (GeX)
Uncertainty (%)	±5 % ± 3 pW (InGaAs) ±5 % ± 0.4 nW (GeX)
Display resolution (dB)	InGaAs 0.01 = max to -76 dBm 0.1 = -76 dBm to -86 dBm 1 = -86 dBm to min GeX 0.01 = max to -54 dBm 0.1 = -54 dBm to -64 dBm 1 = -64 dBm to min
Automatic offset nulling range	Max power to -63 dBm for InGaAs Max power to -40 dBm for GeX
Tone detection (Hz)	270/1000/2000

ORDERING INFORMATION

TK-200-S1-D3-EI	Modular Link Characterizer Test Kit (SM)	\$7,390.00
TK-200-S1-D16	FTB-200 with (MM) 850/1300 (27/26db)	\$9,240.00
TK-200-S1-D15	FTB-200 with MM/SM Quad Module	\$11,710.00

Single mode and Quad only. Other configurations available

PLEASE CALL FOR CONFIGURATIONS

FTB-500

Modular Test Platform

The result of over 10 years of proven leadership in multimodular test platforms, the FTB-500 delivers a whole new spectrum of network testing possibilities, a whole new testing paradigm: more advanced applications, faster setups, test cycles and reporting, wireless communication and reporting, and universal compatibility with all EXFO FTB modules, past, present and future.

Features

- Full fiber characterization: industry-renowned OTDRs combined with the most advanced dispersion analyzers
- Industry-exclusive: distributed PMD analysis
- 10G, 40G and 100G-ready
- Most compact and powerful Ethernet, SONET/SDH, OTN and Fiber Channel analyzers
- Four-slot or eight-slot configurations
- Universal wireless connectivity
- Full backward compatibility with all FTB modules



SPECIFICATIONS

Display	Touchscreen, color TFT, 800 x 600 TFT, 307 mm (12.1 in)
Storage	Internal 80 GB hard drive minimum with G-shock protection Flash USB drive (1 GB, 2 GB and 8 GB optional) ExpressCard memory card (16 GB and up, optional) External USB read/write DVD drive (optional)
Interfaces	Ethernet port Fiber probe port ExpressCard port 34 mm format Serial RS-232 port Monitor port Four USB 2.0 ports Standard PC Mic in and Speaker out ports (3.5 mm)
Battery type	Eight-slot configuration: three rechargeable Li-ion, smart batteries (total of 207 W•h) Four-slot configuration: two rechargeable Li-ion, smart batteries (total of 138 W•h)
Power supply	100–240 VAC, 50/60 Hz
Weight	Eight-slot configuration: 10.9 kg (24 lb) Four-slot configuration: 8.5 kg (18.7 lb)
Size (H x W x D)	Eight-slot configuration: 366 mm x 296 mm x 216 mm (11 11/16 in x 14 7/16 in x 8 1/2 in) Four-slot configuration: 366 mm x 296 mm x 146 mm (11 11/16 in x 14 7/16 in x 5 3/4 in)
Operating temperature	32 °F to 122 °F
Storage temperature	–40 °F to 158°F
BUILT-IN POWER METER SPECIFICATIONS	
Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to –86
Uncertainty (%)	±5 % ± 3 pW (up to 5 dBm)
Display resolution (dB)	0.01 = max to –76 dBm 0.1 = –76 dBm to –86 dBm
Automatic offset nulling range	Max power to –63 dBm
Tone detection (Hz)	270/1000/2000



FTB-500 8-slot platform

- Distributed PMD analysis
- Full fiber characterization
- 100 Gbit/s testing applications
- ROADM/POTS and 40 Gbit/s testing

FTB-500 4-slot platform

- ROADM and PTN turn-up testing
- CWDM turn-up testing
- Multiservice testing
- Gigabit/10 Gigabit Ethernet configurations

PLEASE CALL FOR CONFIGURATIONS

AFL/NOYES OTDRS

OFL-280 FlexTester

Handheld PON OTDR

The AFL/Noyes OFL280 FlexTester offers an unmatched combination of fiber optic test functions, ease-of-use, portability, and value. All OFL280 FlexTester models include an integrated single-mode 1310/1550 nm OTDR with PON-optimized and standard test modes, optical power meter, 1310/1550 nm laser source, and visual fault locator.

Features

- Standard OTDR, PON OTDR, live fiber OTDR, and FTTx PON meter all from the same test port
- 1.0 m event dead zone, 3.5 m attenuation dead zone
- 34 dB dynamic range
- Fast Real Time OTDR mode
- Internal storage (>1000 OTDR traces in standard .SOR format)
- High-contrast display is clear and bright in any lighting condition, including direct sunlight
- Transfer test results to a PC via USB
- Short power-on time (< 5 sec)

SPECIFICATIONS

Display	LCD, 320 x 240, 3.5 inch (89 mm), color, high-contrast transfective with backlight and AR coating
Battery	10 hours, backlight ON, continuous operation
Power	Rechargeable Li-Ion or AC adapter
Weight	1.7 lb
Size	7.5 x 4.4 x 1.9 in
Operating temperature	-10 to +50°C, 0 to 95% RH (non-condensing)
Storage temperature	-20 to +60°C, 0 to 95% RH (non-condensing)

POWER METER SPECIFICATIONS

Calibrated wavelengths (nm)	1310, 1490, 1550, 1625, 1650 nm
Measurement range (dBm)	+23 to -50 dBm
Tone Detect Range	+3 to -35 dBm
Wavelength ID Range	+3 to -35 dBm
Accuracy	± 0.25 dB
Resolution	0.01 dB
Measurement Units	dB, dBm or Watts

Laser Source

Emitter Type	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Fiber Type	Singlemode
Available Wavelengths (nm)	1310, 1490, 1550
Wavelength Tolerance	± 20 nm
Spectral Width (FWHM)	2 nm (maximum)
Internal Modulation	1 kHz, 2 kHz, CW
Wavelength ID (one, two, or three wavelengths)	Compatible with Noyes Optical Power Meters and Light Sources
Output Power Stability	0.25 dB
Output Power (nominal)	-3 dBm



Applications

- PON OTDR - FTTx PON construction certification
- Live Fiber OTDR - FTTx service turn-up and troubleshooting
- Full Auto OTDR - Normal (point-to-point) fiber cable construction testing and fault location
- Real Time OTDR - Fault location, splice verification, first connector checker
- End Locator - Quickly locate breaks or measure fiber length
- Optical Power Meter - Measure optical power or fiber loss
- Laser Source - Measure end-to-end loss or trace fibers using the tone feature and a Noyes OFI
- Visual Fault Locator - Red laser for fiber bend/break location and tracing

SPECIFICATIONS

Visual Fault Locator

Emitter Type	Laser
Safety Class	Class II FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Wavelength	650 nm
Output Power (nominal)	0.8 mW into single-mode fiber

PON POWER METER for Single-mode only

Calibrated Wavelengths	1490, 1550 nm
Detector Type	Filtered InGaAs
Isolation	> 40 dB
Measurement Range	+23 to -50 dBm
Accuracy	± 0.5 dB
Resolution	0.01 dB
Measurement Units	dBm or watts

ORDERING INFORMATION

OFL280-102	<i>FTTx construction OTDR</i>	\$6,195.00
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Includes: Carry case, SC adapter, 2.5 mm Universal adapter, 2.5 mm Universal adapter, USB cable, AC power adapter with a country specific power cord, and user guide.

OFL280-103	<i>FTTx installation (live fiber) OTDR</i>	\$6,995.00
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Includes: Filter to test live FTTx fibers @ 1625 nm, and a PON power meter to measure downstream (1490/1550 nm) power levels on FTTx networks – Carry case, SC adapter, 2.5 mm Universal adapter, 2.5 mm Universal adapter, USB cable, AC power adapter with a country specific power cord, and user guide.

M210

Handheld OTDR

The NOYES M210 is the only inspection ready OTDR that combines OTDR, OPM and VFI capability with a proven, easy-to-use and easy-to-learn user interface. The M210 is the latest addition to the M200 family of OTDRs. Like other members of the M200 family, the Noyes M210 OTDR offers the intuitive Touch and Test user interface in a rugged, lightweight, easy-to-hold package ready for field use. The M210 features a more powerful processing engine, a higher resolution display and, for the first time in an OTDR of its size, an integrated Optical Power Meter.

Touch and Test simplifies the M210 user experience, minimizes human errors and reduces training time by providing one-touch access to the Full-Auto, Expert and Real-Time OTDR test modes, OPM measurement mode as well as the Results Management and Job Creation menus. The M210 allows setting Pass/Fail thresholds to industry standard TIA/ISO or user-values and will automatically alert users of failing fibers. Touch and Test enables both experts and novices alike to complete jobs more accurately and in less time.



SPECIFICATIONS

	SINGLE-MODE	MULTIMODE
Emitter Type	Laser	Laser
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11; IEC 60825-1:2007-03	Class I FDA 21 CFR 1040.10 and 1040.11; IEC 60825-1:2007-03
Center Wavelengths	1310/1550 nm	850/1300 nm
Wavelength Tolerance	$\pm 20/\pm 30$ nm	$\pm 20/\pm 30$ nm
Dynamic Range (SNR = 1)	30 dB	26 dB
Event Dead Zone	1.5 m	1.5 m
Attenuation Dead Zone	9 m	9 m
Pulse Widths	10, 30, 100, 300 ns, 1, 3, 10 μ s	10, 30, 100, 300 ns, 1 μ s
Range Settings	250 m to 208 km	250 m to 32 km
Sampling Points	Up to 16,000	Up to 16,000
Minimum Data Point Spacing	0.25 m	0.25 m
Group Index of Refraction	1.4000 to 1.6000	1.4000 to 1.6000
Distance Uncertainty/Accuracy	$\pm(1 + 0.005 \% \times \text{distance} + \text{data point spacing})$	$\pm(1 + 0.005 \% \times \text{distance} + \text{data point spacing})$
Linearity	± 0.05 dB/dB	± 0.05 dB/dB
Loss Threshold	0.02 dB	0.02 dB
Loss Resolution	0.01 dB	0.01 dB
Reflectance Resolution	0.01 dB	0.01 dB
Reflectance Accuracy	± 2 dB	± 2 dB
Real Time Refresh Rate	1 Hz	1 Hz
Units	m, km, ft, kft, mi	
OTDR Modes	Full Auto, Expert, Real-Time	
Trace File Format	Bellcore GR-196 Version 1.1	
Trace File Storage Medium	Internal and USB	
Trace File Storage Capacity	>1000 internal, 1000s on USB	
Trace File Transfer to PC	USB	

ORDERING INFORMATION

M210-20U-01	M210 OTDR, SM 1310/1550nm (SC, FC) S.C.	\$5,995.00
M210-22U-01	M210 OTDR, MM 850/1300nm (SC, ST) S.C.	\$6,925.00
M210-25U-01	M210 OTDR, QUAD (SC, FC, ST) S.C.	\$8,995.00

AFL/NOYES OTDRS

FLX380

Hand-held OTDR

The NOYES FLX380 FlexTester is the world's smallest, lightest, most complete single-mode fiber optic test set. It combines high-performance, multi-wavelength OTDR/PON OTDR, OLS, OPM, VFL and PON Power Meter in a rugged, hand-held package.

With 40 dB dynamic range, best-in-class event, attenuation, and PON dead zones, and AFL's unique ServiceSafe™ and Wave ID features, the Noyes FLX380 FlexTester offers an unmatched combination of optical test functions, ease-of-use, portability and value. FLX380 FlexTester is offered in three models to best suit your application requirements (see below for specs and kits).

Features

- Standard OTDR, live PON OTDR, PON power meter from one port!
- 40/37/37/35 dB dynamic range @ 1310/1490/1550/1625 nm
- 0.8/3.5 m event/attenuation dead zone, 40 m PON dead zone
- ServiceSafe™ live PON detection – prevents OTDR from disrupting service on live PON, while allowing 1625 nm out-of-band OTDR test
- Easy to use Full Auto, Expert, PON and Real Time OTDR modes
- OLS/OPM with Wave ID Wave ID – reduces test time by 80% and eliminates setup errors
- Rugged, hand-held and lightweight (<1 kg)
- High-contrast display: clear and bright, even in direct sunlight
- >12-hour operation, fast charge, Li-Ion battery
- Instant On; Ready to test in <5 sec

Visit website for product specifications
www.fiberoptic.com/product

M700

Multifunction OTDR

The Noyes M700 series are full-featured Noyes OTDRs with an integrated Visual Fault Locator (VFL, 650 nm), Optical Power Meter (OPM), and a large transfective touch screen display suitable for both indoor and outdoor operation. Each M700 model includes the M700 OTDR, USB Flash drive, PC software for OTDR trace analysis and OPM loss reporting, AC adapter, switchable test ports adapters, and cleaning accessories in a soft carry case.

Features

- 40 dB dynamic range single-mode
- 13-hour battery life
- Remote display capable
- Touch and Test™ intuitive user interface
- Crisp bright display for indoor/outdoor viewing
- Integrated OPM standard; integrated VFL standard
- Inspection capable with DFS1 Digital FiberScope
- USB host and function ports
- TRM® (Test Results Manager) reporting software
- Prepaid Calibration plans, Cal and Cal Plus

Visit website for product specifications
www.fiberoptic.com/product



- **FLX380-100:** Lowest cost, high-performance, all-in-one 1310/1550 nm OTDR, OLS, OPM and VFL for out-of-service installation testing or troubleshooting on both FTTx PON and point-to-point fiber optic networks.
- **FLX380-102:** 1310/1490/1550 nm OTDR, OLS, OPM and VFL for complete out-of-service testing at all FTTx PON wavelengths.
- **FLX380-103:** Most complete high-performance test set for verifying both in-service (live) and out-of-service FTTx PONs. Includes ServiceSafe™ live PON detection, integrated PON power meter and 1625 nm filtered live PON OTDR, all from a single port.

ORDERING INFORMATION

FLX380-100	FLX380 Flextester OTDR, 1310/1550nm	\$6,495.00
FLX380-102	FLX380 Flextester OTDR, 1310/1490/1550nm	\$8,295.00
FLX380-103	FLX380 Flextester OTDR, 1310/1550/1625nm	\$9,495.00



Includes

M700 OTDR, USB Flash drive, PC software for OTDR trace analysis and OPM loss reporting, AC adapter, switchable test ports adapters, cleaning accessories, soft carry case

ORDERING INFORMATION

M700-20U-01	M700 Long Range 1310/1550 - SC, FC, LC	\$7,800.00
M700-21U-01	M700 L. Range 1310/1550/1625, SC, FC, LC	\$10,800.00
M700-24U-01	Noyes M700 Long Range QUAD - SC, ST, LC	\$12,995.00
M700-25U-01	Noyes M700 QUAD OTDR - SC, ST, LC	\$10,250.00

C860

QUAD OTDR and Certification Test Kit

The C850 is both a QUAD Certification Tester and full-featured QUAD OTDR in a compact case with a large transreflective touch screen display suitable for both indoor and outdoor operation. The C850 features single-mode and multimode OTDR, Optical Light Sources (OLS), Visual Fault Locator (VFL, 650 nm), and an Optical Power Meter (OPM). As an OTDR, the C850 supports Full Auto, Expert (manual) and Real-Time test modes, simultaneous dual and single wavelength testing, and Event and Pass/Fail analysis based on default or user-defined thresholds. The C840 QUAD Certification Tester includes VFL, OPM, and both singlemode (1310/1550 nm) and multimode (850/1300 nm) OLS. The C840 may be used alone as a traditional power meter or light source to measure fiber loss or as a visual fault locator to find fiber breaks.

Features

- OTDR dynamic range: 22 dB (MM); 26 dB (SM)
- Inspection capable with the DFS1 Digital FiberScope
- Integrated OPM, OLS, and VFL (650 nm)
- OLS sources: LED - 850/1300 nm; Laser - 1310/1550 nm
- Full Auto, Expert, Real-Time OTDR test modes
- >8 hours battery life or AC power
- Touch and Test™ user interface
- TRM™ reporting software
- Automatic Pass/Fail analysis (TIA/ISO/EN)
- Bellcore (GR-196) .SOR file format
- Internal (1000s tests) and USB storage
- Wave ID detect if used with NOYES Wave ID series light sources
- USB host and function ports



Includes

One hand-held C840 QUAD Certification Tester, one compact C850 QUAD OTDR/OLTS, USB Flash drive, PC software, (2) AC adapters, switchable test port adapters, and accessories (no test leads)

ORDERING INFORMATION

C860-100-LP1-H1	C860 QUAD OTDR Cert. Kit SC, ST, LC	\$15,750.00
C860-100-LP1-H2	C860 QUAD Cert. Kit, SC/LC Rings & Leads	\$16,995.00
C860-100-LP1-H5	C860 QUAD Cert. Kit, SC/ST Rings & Leads	\$16,995.00

Visit website for product specifications
www.fiberoptic.com/product

OFL250-50

Hand-held, Fault-Locating OTDR

The Noyes OFL250-50 is a 1550 nm single-mode OTDR with an integrated optical power meter (OPM), 1550 nm laser source (OLS), and visual fault locator (VFL) in a handheld package weighing only 0.8 kg (1.7 lb). With short (1.5m) dead zone and mid-range dynamic range performance, the OFL250-50 is ideal for troubleshooting dark single-mode fibers in local area, metro area, and FTTH networks.

The OFL250-50 provides automatic and manual setup, precision event analysis, 12-hour battery life, internal data storage, and USB connectivity. OTDR and OPM test ports are equipped with tool-free adapters, which can be changed in seconds.

OTDR test results are saved as industry standard .SOR files, which can be transferred to a PC for viewing, printing, and analyzing with the supplied Windows (R) compatible software.

Features

- Available in 1310/1550 and 1550 only versions
- 26 dB dynamic range
- 1.5 m event dead zone
- Integrated OPM, OLS, VFL with tool-free interchangeable adapters
- Rugged, hand-held and light weight
- High-contrast display: Clear and bright, even in direct sunlight
- Internally stores > 1000 traces in .SOR format; Transfer to PC via USB
- Rechargeable 12-hour Li-Ion battery or AC power with instant On
- Windows® compatible software to view, print and archive test records



ORDERING INFORMATION

OFL250-50U-ENG	OFL250-50 Handheld, 1550nm OTDR	\$3,295.00
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Visit website for product specifications
www.fiberoptic.com/product

JDSU OTDRS

T-BERD-2000

Multiple Services Test Platform

Costs, workflow, quality, network performance, and customer experience are critical for the success of today's fiber optic networks. Selecting the right test tools has become key toward meeting these needs.

The JDSU T-BERD/MTS-2000 is a handheld multi-test platform that provides field technicians with a single handheld unit to install, turn-up and maintain these networks to the highest standards.

Its innovative design and hands-free bag ensure that all essential fiber test tools are close at hand, whatever the job or location. A large color screen with graphical user interface drives simple operation and optimal workflow in the field.

Test capabilities include a range of OTDR modules for multimode and single-mode testing, as well as a range of FiberComplete™ modules for automated Insertion Loss/ Optical Return Loss (IL/ORL), and fault finding. Both OTDR and FiberComplete modules are passive optical network (PON) optimized. The unit is also ready for connector end face pass/fail analysis to IEC standards with a digital analysis microscope.

The PON power meter and CWDM-OSA modules also enable turn-up and troubleshooting of PON and coarse wavelength division multiplexing (CWDM) networks.

Features

- Large 5-inch touch screen display
- Field-installable modules
- Wide range of OTDR modules, including Quad and PON
- FiberComplete automated IL/ORL, PON power meter, and CWDM analyzer
- Automated fiber inspection and IEC pass/fail analysis
- Optional built-in optical power meter, visual fault locator (VFL), and optical talk set
- New-generation Lithium Polymer (LiPo) battery for 8 hours operation
- Flexible connectivity with Ethernet, USB, Bluetooth and WiFi capabilities
- Special hands-free bag as standard
- Cross-compatible with T-BERD/MTS-4000

ORDERING INFORMATION

ETB2000T JDSU T-BERD-2000 Handheld OTDR **\$1,730.00**

Includes: Touch screen, hands-free soft case, shoulder strap, power supply with 5 adaptable plugs (US, Europe, UK, Australia, Japan), one USB cable, Getting Started manual

Mainframe only



SPECIFICATIONS

Display	5-inch TFT color touch screen (12.5cm) Resolution 800 x 480 WVGA
Interfaces	Two USB2.0 ports, One mini-USB2.0 port, RJ-45 LAN 10/100/1000Mbps, Built-in Bluetooth (optional), Built-in WiFi 802.11 b/g/n (optional)
Internal memory	1GB (128MB for storage)
Battery type	Rechargeable Lithium-Polymer battery 8 hours of operation as per Telcordia GR-196-CORE
Power supply	AC/DC adapter, input 100-250 VAC, 50-60Hz; 2.5A max, output 12VDC, 25W Electrical safety: EN60950-compliant
Temperature	Operating: -20 to +50°C (-4 to 122°F) Storage: -20 to +60°C (-4 to 140°F)
Humidity non-condensing	95%
Size (W x H x D)	175 x 138 x 80mm (6.9 x 5.4 x 3.2in)
Weight	with battery 0.864 kg (1.89 lbs) with battery and LM OTDR 1.21 kg (2.67 lbs)
Power Meter	
Calibrated wavelengths	850/1310/1490/1550/ 1625/1650
Wavelength range	800 to 1650 nm in 1 nm steps
Accuracy	±0.2 dB
Measurement range	+5 to -50 dBm
Maximum resolution	0.01 dB/0.01nW
Connector type	Universal Push Pull (UPP)
Visual Fault Locator	
Wavelength	650 nm
Emission mode	CW, 1Hz
Laser class	Class 2 as per standards EN60825-1 and FDA21 CFR Part 1040.10
Talk Set	
Dynamic range	32dB (typical)
Connector types	SC, FC, and UPP (three adapters included)

T-BERD-4000

Multiple Services Test Platform

The T-BERD 4000 is a highly integrated platform that features two module slots, a large 7-inch color screen (with a touchscreen option), a high-capacity Lithium-Ion battery, an optional video inspection scope (through universal serial bus [USB] port), and optional built-in optical test functions, such as a visual fault locator (VFL), power meter, and optional WiFi/Bluetooth interface.

Features

- Cost-effective, dual-modular and handheld platform
- Large 7-inch display (touchscreen option)
- Comprehensive connection checker functionality with built-in VFL, power meter, and scope
- Flexible connectivity including USB, high-speed 1G Ethernet, WiFi, and Bluetooth interfaces
- Automated test and data reporting capability
- Integrated web browser

Broadband Power Meter

The T-BERD/MTS-4000 comes with optional built-in power meters that let technicians easily verify the presence of a signal. The large screen of the T-BERD/MTS-4000 displays power values in large fonts, allowing for immediate interpretation of results.

Visual Fault Locator

The VFL features, available as an option on the T-BERD/MTS-4000 platform, offers built-in 635 nm visual fault location on a universal connector.

Video Inspection Probe

The optional fiber inspection probe facilitates the Inspect Before You ConnectSM process. The T-BERD/MTS-4000 offers this capability through a USB port connection, which allows for quick and easy inspection of connector end faces for contamination and also enables capturing the image and storing it in jpeg format.

Ethernet Testing

The T-BERD/MTS-4000 enables Internet connectivity testing using an integrated Web browser and also performs required Internet Protocol (IP) data tests, including IP Ping and File Transfer Protocol (FTP) testing, to verify bandwidth requirements for real-time applications and services (such as online gaming and streaming video).

ORDERING INFORMATION

TB4-DIS-LMD-S	JDSU T-BERD-4000 Handheld OTDR	\$5,490.00
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Includes: Handheld platform w/ super-size 7" landscape high res. color display, Short Range (32/30dB 1310/1550nm) SM OTDR Module w/ Light Source/Power Meter option in module, UPC Connector, SC connector adapter, wrap-around carrying case, AC Adapter, Manuals

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SPECIFICATIONS

Display	TFT color, 7-in, LCD 800 x 480, high visibility for outdoors, Touchscreen, TFT color, 7-in, LCD 800 x 480, high visibility for outdoors
Storage and I/O Interface	Internal memory
WiFi	Standard IEEE 802.11 b/g
Bluetooth	Class 2, up to 10 m range
Audio interface	2.5 mm jack connector
Ethernet	10/100/1000 MHz full-half duplex
Battery type	Standard removable Li-Ion batteries
AC/DC adapter	Input 100-250 V, 50-60 Hz Output 12-15V DC/3.7 A
Electrical safety	EN 60950 Compliant
Operation time	Up to 11 hours with standard display Telcordia GR-196-CORE
Size (W x H x D)	10.2 x 5.3 x 3.5 in
Weight	Mainframe only (with battery) 3 lb Mainframe with one module (with battery) <4.35 lb
Environmental Specifications	
Operating temperature range (no option)	-4 to 122°F
Operating temperature range (all options)	32 to 104°F
Humidity, non-condensing	95%
Base Unit Optical Interfaces (optional)	
Power Meter	
Power level	+10 to -60 dBm
Calibrated wavelengths	850, 1310, and 1550 nm
Connector type	Universal push/pull (UPP)
Visual Fault Locator	
Wavelength	635 nm ±15 nm
Output power level	<1 mW
Laser safety	Class 2 laser
Connector type	Universal push/pull (UPP)
Quick Capture Probe Kit (via USB)	
Magnification	200X and 400X
Interface	through the USB port
Tips	FC, SC, SC-APC, LC, U25, U25MA, U12

JDSU OTDRS

T-BERD 6000/T-BERD 6000A

Compact OTDR Solution

T-BERD 6000

JDSU's T-BERD 6000 is a compact and lightweight test platform designed for the installation and maintenance of fiber networks. It provides field service technicians with the highest levels of performance and upgradeability on the market today.

Modular in design, the T-BERD 6000 offers an extensive portfolio of test functionality with over forty different fiber modules supporting a wide range of applications. The versatility of the T-BERD 600 allows technicians to standardize using one type of test equipment and then introduce new testing capabilities in the field without incurring additional costs.

Since the T-BERD 6000 is compatible without existing fiber module product line, technicians can exchange plug-in modules between the T-BERD 6000 Multiple Network Test Platform and the T-Berd 6000, in the field and without the need for additional tools. To ensure the highest level of return on your test equipment capital investment, existing OTDR modules from the MTS-5100 can be transformed (with and extension) for use with the T-BERD 6000

T-BERD 6000A

The JDSU TB-6000A is a highly integrated test platform designed for all phases of network lifecycle from the installation to the highest levels of performance and upgradeability on the market today.

Modular in design, the TB-6000A offers an extensive portfolio of test functionality with over forty different modules supporting a wide range of applications. The versatility of the TB-6000A allows technicians to standardize using one type of test equipment and then introduce new testing capabilities in the field without incurring additional training and device costs.

Features

- Lightweight platform
- Large 8.4 inch transreflective TFT color display improves viewing under any conditions.
- Intuitive graphical user interface with touchscreen option
- Extended battery life using smart Lithium ion cell.
- Connection Check with VFL, power meter, Loss Test Set/ ORL meter and video inspection scope options
- Built-in optical talkset option for communicating along the fiber.
- Unique automatic bi-directional analysis function available to save up to 50% test time for OTDR, IL, and ORL measurements.
- Fast data transfer via USB, Ethernet port and 1Gb extended memory option.
- Exceeds Telcordia specifications for ruggedness, drop testing, and extended battery life

SPECIFICATIONS

Wavelength (nm)	1310 / 1550 ±20
Event Dead Zone (m)	2.5
Attenuation Dead Zone (m)	8
Dynamic Range (dB)	32 / 30 (1310 / 1550 nm)
Distance Range	Up to 260 km
Data Points	Up to 128,000
Storage Capacity	1000 test results
Ports	(2) USB, (1) RJ-45
Display Size	TFT color, 8.4", LCD 800 x 600, high visibility (standard)
Size (H x W x D)	285 x 195 x 93 mm (11.2 x 7.7 x 3.7 in)
Weight	3.4 kg (7.5 lb)



ORDERING INFORMATION

ETB6000	T-BERD 6000 platform with high visibility color display and battery pack
ETB6000T	T-BERD 6000 platform with high visibility touchscreen color display and battery pack
TB6000AT	T-6000A platform with high visibility touchscreen color display and battery pack

Additional Parts

E60EXTMEM	Extended Memory	\$315.00
E80VFL	VFL with UPP connector	\$1,151.00
E80TS	Optical talkset	\$2,425.00
E80PM	Optical power meter with UPP connector (2.5 mm provided as standard)	\$837.00
E8036LTSTS	Optical loss test set with talkset	\$5,873.00
E60LIION	Additional high power Li-ion rechargeable battery	\$157.50

Main Modules (single slot plug-in modules)

E81xxSR, E81xxDR, E81xxHD, E81xx-VLR, E81xxUHD, E8123MM	OTDR module	
E81PMD,	PMD module	\$23,037.00
E81WDM	WDM module	\$20,895.00
E5083CD	CD module	\$31,620.00

Application Software

EOFS100	Optical FiberTrace software(for port analysis)
EOFS200	Optical FiberCable software (for acceptance report generation)

Optical connectors for the loss test set and talkset options (connector must be of the same type)

Field replaceable connectors: EUNIPCF, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIPAPCF, EUNIPAPSC, EUNIPAPST, EUNIPAPCDIN, EUNIPAPCLC

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T-BERD 8000

Comprehensive Optical Network Platform

The T-BERD 8000 is a field-scalable optical test platform for both installation and maintenance. Based on the rich T-BERD heritage, the T-BERD 8000 is the industry's most innovative and cost-effective test solution for metro networks. A single Transport Module provides an integrated solution for Ethernet, SONET, SDH, PDH, and T-carrier networks. Optical Modules allow thorough testing of short-haul, long-haul, FTTx, CWDM, DWDM and ROADM networks.

SPECIFICATIONS

Display	TFT color, 10'4 in, LCD 800x600 TFT color, 10'4 in, LCD 800x600, High visibility Touchscreen TFT color, 10'4 in, LCD 800x600, High visibility	
Storage	Internal memory	16 MB
	Hard disk (optional)	min 20 GB
	Floppy disk drive (optional)	3.5 in
	MSDOS compatible	
	CD read/write (optional)	
Input/Output	RS232C x USB, VGA, RJ45 Ethernet RJ11 modem (optional)	
Battery type	Standard removable Li-Ion batteries	
Operation time	Up to 16 OTDR hours with two batteries and standard display, Telcordia GR-196-CORE	
Internal charger	Yes	
Charging time	<3 hours per battery	
DC input	19 to 25 V	
Power supply	Input 100 to 240 V	
AC/DC adapter	50 to 60 Hz, 1.8 A, out put 19 V DC/3.1 A	
Size (W x H x D)	Mainframe w/ back plate	12.6 x 10.4 x 2.1
	Unit w/receptacle + battery pack	12.6 x 10.4 x 4.5
Weight	Mainframe w/ back plate	6.39 lbs
	Unit w/receptacle + battery pack	11.9 lbs
Operating temperature range (no option)	-4 °F to 122 °F	
Operating temperature range (all options)	-4 °F to 140 °F	
Storage	-4 °F to 140 °F	
Humidity	95% without condensing	
EMI/ESD	CE compliant	



Features

- Configure with numerous application modules and a variety of storage media, including USB memory stick, and read/write CD-ROM.
- All application modules are field-installable so that existing MTS-5000 users can simply field install the optical plug-in by adding an extender.
- A large color transreflective display is offered as standard for improved visibility for use in direct sunlight. A touchscreen option is available.
- Base unit can house Visual Fault Locator(635 nm), Power Meter (800 to 1650 nm), Loss Test Set/ORL meter, as well as Optical Talkset (45 dB) options
- Optical Talkset allows both communication and file transfer.
- Comprehensive suite of PC software tools for post-processing of test results via FiberTrace (OFS-100) and FiberCable (OFS-200)

ORDERING INFORMATION

ETB8000bt	<i>T-Berd 8000 Tester Mainframe ONLY</i>	\$5,659.50
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OTDR Module Specifications

	High performance multimode MM	Short range singlemode SR	Medium range singlemode DR	Long range singlemode HD	Very long range singlemode VLR	Ultra long haul singlemode UHD
Central wavelength	850/1300 nm ± 20 nm	1310/1550 nm ± 20 nm	1310/1550 nm ± 20 nm	1310/1550/1625 nm ± 20 nm ± 10 nm for 1625 nm	1310/1550/1625 nm ± 20 nm	1310/1550/1625 nm ± 20 nm ± 10 nm for 1625 nm
Laser safety class (21 CFR)	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Pulse width	3 ns to 200 ns	10 ns to 10 µs	10 ns to 20 µs	10 ns 20 µs	3 ns to 20 µs	10 ns to 20 µs
Distance range	Up to 80 km	Up to 260 km	Up to 260 nm	Up to 380 km	Up to 380 km	Up to 380 km
RMS dynamic range	25 dB/23 dB	37 dB/35 dB	37 dB/35 dB	42 dB/40 dB/40 dB	45 dB/43 dB/ 43 dB	46 dB/50 dB/ 46 dB
Event dead zone	1.5 m	1 m	1 m	4 m	0.8 m	4 m
Attenuation dead zone	5 m	8m	15 m	15 m	4 m	15 m

PRECISION RATED OPTICS OTDRS

PRO ERK Kit Emergency Response Kit



ERK-1 Includes:

PRO-790	PRO-790 Fusion Splicer
OBL-201A	Optical Break Locator
LS-102D	LS-102D Light Source (1310/1550)
PM-102B	PM-102B Power Meter (+23 to -43)
OFI-30	OFI-30 Optical Fiber Identifier
VFL-5	Visual Fault Locator 1mw
VIP-35-K2	3.5 Inch Video inspection kit 2
PRO-TC-1	SqueakyKleen Telcom Cleaner Satur. Wipes
PRO-CS-125	PRO Cleaning Stick - 1.25mm (LC)
PRO-CS-250	PRO Cleaning Stick - 2.5mm (SC)
PS-S-500-CUCU-1	Launch Box SM9 500M SC/UPC-SC/UPC
PC-S-ACUCU01F	SC/UPC - Simplex (9um) - 1 meter
PC-S-ACACU01F	SC/APC-SC/UPC PC Simplex SM9 3mm 1M
PC-S-AFUCU01F	FC-SC Simplex SM UPC Patchcord 1 Meter
CA-S-SC-S6SPZ	SC/UPC - SC/UPC Adapter
CA-S-SC-A6SPZ	Mating Sleeve SCAPC SM, Flanged Simplex
FOM-1002	Splice Sleeve: 60mm Clear
JIC-186	Kevlar Shears
80785	Mid Span Access Tool
PRO-CT-001	Cassette Cleaner
PRO-LFW-100	Fiber Optic Clean Wipes
PRO-FSC-200	Fiber Scrap Container
PRO-QC-2LP	Spray Connector Cleaner
FOM-0008	Electrical Tape
CST-1900	Round Cable Stripper
SMART-STRIP	Buffer Tube Stripper
10-099H	Utility Knife
SR-101	Seam Ripper
KN-7	Ergonomic Cable Splicing Knife
AA-SA	Stainless Steel Tweezers
JIC-375	Tri Hole Strippers
SHARPIE-BK	Sharpie Marker Black
PRO-ERBK	Laptop Back Pack w/ hard shell
PRO-METL Bag	Tool Bag

ERK-1

Of course, the PRO ERK-1 is the all-in-one perfect solution to tackle quick restoration of fiber optic networks - but it's not just for disaster scenarios. The PRO ERK-1 contains everything needed for any fiber repair job, large or small, but the price-point is where we leave the competition in the dust.

Just imagine, for about the price of a single fusion splicer from, you'll get a complete field-tested, ruggedized restoration kit from PRO, which includes every piece of equipment and cleaning product essential for in-the-field fiber repair.

Plus, it all comes contained in a super-ruggedized backpack made by Pelican®, known the world over for their durable cases, designed specifically to protect high-end electronic equipment. The Pelican® backpack included with an ERK even contains a special hard-shell compartment that accommodates up to a 17" laptop.



ERK-2

The addition of the PRO "Super-Tech" Multi Tool makes the PRO ERK-2 more than just a portable repair kit. The PRO "Super-Tech" tool contains 6 essential technician tools, including a Channel Analyzer (1417-1611nm), Light Source, Video Inspection Probe, Visual Fault Locator, Power Meter and OTDR (1310/1550; 36/34dB) all in one unit!

A technician, armed with the ERK-2, can perform not only repair operations, but can also undertake complex network diagnostics, all from one kit, contained in a single backpack!



NOTE: OBL-201A, PM-102B and VIP-35-K2 has been replaced with the PRO "Super-Tech" OTDR

ORDERING INFORMATION

ERK-1	PRO Emergency Response Kit 1	\$14,995.00
ERK-2	PRO Emergency Response Kit 2	\$21,995.00

PRO[®] OLM-212A-ORL

Multifunction Loss Tester Insertion Loss / Return Loss

The PRO Optical Insertion Loss/Optical Return Loss meter (p/n: OLM-212A-ORL) is an integrated tester for fiber optic technicians and cable manufacturers. Particularly useful for installation, the lightweight, handheld multi-function meter allows a technician to instantly ascertain the quality of a particular fiber section or a complete network.

The PRO OLM-212A-ORL combines 4 tools in 1: Optical Insertion Loss Meter, Optical Return Loss Meter, CW Laser Source and Power Meter, all in one compact, ruggedized, hand-held unit. The wide range of onboard tools allow the OLM-212A-ORL to be used in Optical Telecom, CATV Networks and Enterprise Accounts, as well as in lab environments, research environments and cable manufacturing.



Return Loss Meter

Output Wavelength (nm)	1310nm, 1550nm
Measurement Range	0-55dB; 0.4dB; 55-65dB; 1dB
Calibrated Wavelengths	1310nm & 1550nm
Measurement Accuracy	0-55dB/15min
Stability	0.05dB/15min
Connector Type	FC/APC, SC/APC, ST/APC
Resolution	0.1dB
Data Storage	500 Test Results
Power Output	-2dBm

Power Meter

Calibrated Wavelengths	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm
Measurement Range	-70dBm-7dBm
Measurement Accuracy	-70dBm~-60dBm: 1dB; -60dBm-7dBm: $\pm 0.2\text{dB} \pm 1\text{nW}$
Modulation Detection	270HZ, 1KHZ, 2KHZ
Resolution	-70~-60dBm:0.1dB; -60~+7dBm:0.01dB
Data Storage	500 Test Results
Connector	FC/SC/ST

Laser Source

Calibrated Wavelengths	1310, 1550nm
Measurement Range	0-70dB
Measurement Accuracy	0-60dB:0.2dB; 60-70dB:1dB
Data Storage	500 Test Results
Connector Type	FC/SC/ST

Other

Adapter	Input: AC100-240V50/60Hz Output: DC6V/1A
USB Connector	Yes
Battery	2*AANI-MH 1.2V2500mAh Rechargeable
Working Temperature	-5~+50 °C
Storage Temperature	-20~+70 °C
Working Humidity	0-90% No Condensing
Support Remote Upgrade	Yes

Features

- 4 tools in 1: Optical Insertion Loss Meter, Optical Return Loss Meter, Power Meter, CW Laser Source
- High-precision ORL testing at 2 wavelengths (SM 1310/1550nm)
- Powered by Li-ion battery or AC power supply
- Includes FC/SC/ST connector adapters

ORDERING INFORMATION

OLM-212A-ORL Insertion Loss & Return Loss Meter **\$1,985.00**

Includes: User Manual, Rechargeable Batteries, Carrying Bag, Interchangeable FC/SC/ST Connectors, AC/DC Adapter/Charger, PC Software CD, USB Connecting Cable, Test Report, FC/APC-FC/APC Patchcord, FC/APC-FC/PC Patchcord, Cleaning Swabs

PRECISION RATED OPTICS OTDRS

PRO[®] 5350 Series

OTDR

The PRO 5000 Series Optical Time Domain Reflectometer (OTDR) is the new generation of intelligent OTDR for use in fiber communications systems. With an increase in optical network construction in cities and suburbs, there is often a need for higher power OTDRs. The PRO 5000 Series is specifically designed for such applications.

The PRO 5000 Series is manufactured to precise engineering and design tolerances with usability, durability and expandability in mind. Subject to stringent mechanical, electronic and optical testing, quality can be seen and felt from the ruggedized body and high-resolution display to the soft-touch keypad and user-friendly USB interface.

The PRO-5350 OTDR comes standard with a VFL and touchscreen, but is also available with such options as GPS, SC, ST & LC Adapters, Bare Fiber Adapter, Video Inspection Probe, BlueTooth and WiFi. There's even a waterproof version! With all of the functionality and portability of the PRO-5350, you'll be ready to tackle any job, large or small.

SPECIFICATIONS

Pulse Width	3-20Kns
Operational Wavelength	1310/1550 (Standard) Also Available in 1625 (With Optional Filter)
Dynamic Range	32/30dB (Standard) Also Available in: 35/33dB, 40/38dB, 43/41dB
Full Distance Accuracy	240Km
Sampling Resolution	Minimum 0.25m
Sampling Point	Maximum 128,000 Points
Linearity	≤0.05dB/dB
Loss Threshold	0.01dB
Loss Resolution	0.001dB
Distance Resolution	0.01m
Distance Accuracy	± (1m+Measuring Distance x 3 x 10 ⁻⁵ + Sampling Resolution)
Internal Visual Source	10mW, CW/2Hz
VFL	-5dBm
Data Storage	40,000 Groups of Curve
Interface	1-RJ-45 Port, 3-USB Port (2-Type A, 1-Type B)
Display	7 Inch TFT-LCD (Touch-Screen Function is Optional)
Battery	7.4V/4.4Ah Lithium Battery (with Aviation Certification), Continuous 6 Hours Working
Working Temp.	-10°C ~ +50°C
Storage Temp.	-20°C ~ +70°C
Humidity	≤95% (Non-Dew)
Dimension	253 x 168 x 73.5mm / 1.5kg (Battery Included)



Features

- 7" TFT Color Display
- Soft-Touch Keypad
- Ruggedized Construction
- User-Friendly Interface
- Comes Standard with Built-In VFL and Touchscreen

ORDERING INFORMATION

PRO-5350	OTDR 1310/1550 32/30 w/VFL	\$6,120.00
PRO-5350-TS-40F	OTDR 1310/1550/ w/F1625 w/VFL	\$12,580.00
PRO-5350-TS-D35	OTDR 1310/1550 35/33 w/VFL	\$6,845.00
PRO-5350-TS-D40	OTDR 1310/1550 40/38 w/VFL	\$7,770.00
PRO-5350-TS-D43	OTDR 1310/1550 43/41 w/VFL	\$10,175.00
PRO-5350-TS-T40	OTDR 1310/1550/1625 40/38/38	\$12,025.00

Includes: Main Unit, 12V Power Adapter, Lithium Battery, FC Adapter, 10mW VFL, USB Cord, User Guide, Test Report Software CD, Carrying Case

PRO[®] FBE-300 Series

FiberBase[®] Enabled OTDR

The USA made FiberBase enabled OTDR is controlled by any 2.2 or newer Android[®] device with Bluetooth capability. The display size is determined by the Droid[®] device.

The PRO-FBE-OTDR is the most affordable OTDR on the market today. Using a smart phone or tablet to control the OTDR affords the user many options, such as user-friendly management and file transfer. This unit is available in SM, MM and Quad wavelength options. Testing is made simple and fast with the press of the Auto-Test button. Tap an event and the active cursor moves directly to that event on the trace. With the offered dynamic ranges and a 2-meter dead zone make it ideal for up to 240km as well as being perfect for short LAN links within the facility.

Weighing in at just over one pound, this OTDR is ideal for all conditions. With the remote capability of the Android operating system, you always have the screen in the best operation position possible. Files are saved in .sor Telcordia format and can be transferred to a PC or laptop if desired. Trace storage is only limited to the capability of the Droid[®] device.

Specifications

Wavelength	850, 1300, 1310, 1550, ± 20 nm
Dynamic Range	27/26dB MM, 32/30dB SM
Pulse Width	20 - 10,000 ns
Units of Measurement	km, kf
Event Dead zone	2m
Attenuation Dead Zone	5m
Resolution	.25 - 64m
Distance Variable	$\pm(0.75m + 0.005\% \times \text{distance} + \text{sampling resolution})$
Full Scale Distance Range	1-64km MM, 1-240km SM
Typical Real-time Refresh Rate	>1Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	$\pm .05$ dB/dB
Memory Capacity	1000 traces
Communications	Bluetooth, USB PC
Power Supply / Charger	Universal
Battery	4hr
Storage Temperature	-20 to 60 C
Operating Temperature Range	-10 to 50 C
Dimensions (without rubber boot)	7.62" L x 3.88" W x 1.56" H (194mm L x 99mm W x 40mm H)
Weight	1.4lbs.
Connector Styles	FC, ST, SC Interchangeable

ORDERING INFORMATION

FBE-300-SM	PRO FiberBase Enabled SM OTDR	\$6,350.00
FBE-300-MM	PRO FiberBase Enabled MM OTDR	\$6,350.00
FBE-300-QUAD	PRO FiberBase Enabled QUAD OTDR	\$10,287.50



GPS



Interaction with other applications on your device such as GPS and "Speech to Text" make this an even more powerful instrument

Features:

- Most Affordable OTDR on the Market
- Short Dead Zone
- 32 dB Dynamic Range (SM)
- Ultra-Fast Trace Acquisition
- One-Button Testing
- Event Table with Pass/Fail Feature
- Trace Comparison with Trace Overlay
- Super-Simple Graphical User Interface
- Easy Training with Onboard Help Screens
- SM, MM and QUAD Units Available

Standard Accessories

Universal Power Adapter w/US, UK, CE, and AU Plugs, Interchangeable FC/ST and SC Adapters, Windows/Telcordia SR4731 Software, Rubber Boot, USB Cable, Manual on CD

PRECISION RATED OPTICS OTDRS

PRO[®] 2 Series

Bluetooth Enabled OTDR



Features

- Event Table with Pass/Fail Feature
- One Button Testing
- Controllable with Android Device
- Telcordia Compatible Software Included
- Trace Comparison with Trace Overlay



Can be Controlled with Your
Android Smart Phone or Tablet!!

The PRO 2 Series OTDR is the most affordable Bluetooth-enabled OTDR on the market today. With features typical of more expensive units such as Trace Overlay, Color Display, One-Button Autotest and Event Analysis, the PRO 2 Series is a serious workhorse. And, because it's Bluetooth compatible and Android-ready, you can operate the OTDR wirelessly, via your Android phone or tablet. The Android device also allows for more mobility, a more powerful file management system, Geo-tagging of files, easy file sharing as well as a display limited only by the size of your Android device.

The PRO 2 Series OTDR's abundant dynamic range and a 2 meter dead zone makes it ideal for links up to 180km, as well as being perfect for short LAN links within the facility and FTTH applications.

Trace Analysis and report viewing is fast and easy with the Pass/ Fail feature utilizing the onboard event table and the supplied Telcordia SR4731 compatible software with multi-trace capability. The PRO 2 Series OTDR has onboard storage for 1000 traces and 10,000 lost tests with the ability to download traces directly to your computer via USB port.

Ordering Information

PRO-2SM-35	PRO 2 Series OTDR PRO-2SM-35	\$3,795.00
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PRO[®] 3 Series

OTDR w/LTS & optional VFL

The PRO-3 Series OTDR is the most affordable Hand-Held OTDR on the Market today with all of the features of more expensive units. Features such as Trace Overlay, Visual Fault Locator, Loss Test Set, Color Display, One Button Autotest and Event Analysis are included. This unit is available in dual single mode, dual multimode and Quad versions.

The PRO-3 Series OTDR's abundant dynamic range and a 2 meter dead zone, makes it ideal for links up to 240km as well as being perfect for short LAN links within the facility. Use the integrated power meter and light source capabilities to accomplish insertion loss test measurements.

Trace analysis and reporting is fast and easy with the Pass/ Fail feature, onboard event table or the supplied Telcordia SR4731 compatible software with multi-trace capability. The OTDR has on board storage of 1000 traces and 10,000 lost tests with the ability to download traces directly to your computer via USB cable.

Features:

- Most Affordable OTDR on the Market
- Short Dead Zone
- 32 dB Dynamic Range
- Integrated Loss Test Set
- Ultra Fast Trace Acquisition
- One Button Testing
- Short Dead Zone
- Trouble Shooting with VFL
- Event Table with Pass/Fail Feature
- Trace Comparison with Trace Overlay
- Easy Training with Onboard Help Screens
- Telcordia Compatible Software Included
- Light Weight Rugged Enclosure
- Onboard Memory for 1000 traces

Ordering Information

PRO-3SM-35-FP	1310/1550nm SM OTDR with LTS and VFL	\$5,725.00
PRO-3MM-83-FP	850/1300nm MM OTDR with LTS and VFL	\$5,725.00
PRO-3Q-FP	850/1300/1310/1550nm Quad OTDR with LTS or VFL	\$7,995.00



PRO⁵ Series

OTDR w/LTS & VFL

The PRO-5 Series Optical Time Domain Reflectometer performs a wide variety of functions as well as being a fast, simple to use OTDR. Its instant on feature, ease of use, rugged housing and affordable price make this the best day to day unit on the market. It is available in 850/1300nm dual multi mode, 1310/1550nm Dual Singlemode, 850/1300/1310/1550nm quad wavelength versions.

The PRO-5 Series has a 36dB dynamic range and a 1 meter dead zone. These specifications, and a full set of operational modes (such as: one button fault finder, construction, real time and full manual) make it perfect for testing and troubleshooting requirements, in LAN networks to Metro networks. The PRO-5 Series OTDR also includes a Visual Fault Locator, AutoTest/AutoWave Power Meter, Stable Light Source and a Video Inspection Scope.

Print professional reports that can include loss tests set measurements and connector end face images with the included "CertSoft" certification software suite.

PRO-5 Series OTDR Specifications:

Wavelength	850, 1300, 1310, 1550 nm ±20nm
Dynamic Range	27/26dB MM, 36/35/35dB SM
Pulse Width	5 - 20,000 ns
Units of Measurement	km, kf, mi
Event Dead zone	1m
Attenuation Dead Zone	4m
Resolution	.125 - 32m
Distance Uncertainty	±(0.75m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	1-64km MM, 1-240km SM
Typical Real-time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	± .05 dB/dB
Memory Capacity	~500
Memory Type	Internal and Flash Drive
Power Supply / Charger	Universal
Battery	8hr
Storage Temperature	-20 to 60 C
Operating Temperature Range	-10 to 50 C
Dimensions (without rubber boot)	7.75" L x 4.5" W x 2.25" H (197mm L x 114mm W x 57mm H)
Weight	2 lbs
Communications ports	USB and USB Flash Drive Ports
Connector Styles	FC, ST, SC Interchangeable

ORDERING INFORMATION

PRO-5SM-35-FP	PRO-5SM-35-FP SM OTDR w/LTS & VFL	\$6,495.00
PRO-5SM-35-VFP	PRO-5SM-35-VFP SM OTDR w/LTS, VFL, VIP	\$6,995.00
PRO-5MM-83-FP	PRO-5MM-83-FP MM OTDR w/LTS & VFL	\$6,495.00
PRO-5MM-83-VFP	PRO-5MM-83-VFP MM OTDR w/LTS, VFL, VIP	\$6,995.00
PRO-5Q-FP	PRO-5Q-FP QUAD SM/MM OTDR w/LTS & VFL	\$8,995.00
PRO-5Q-VFP	PRO-5Q-VFP QUAD SM/MM OTDR w/LTS, VFL, VIP	\$9,495.00
PRO-5TRI356-FP	PRO-5TRI356-FP SM OTDR w/LTS & VFL	\$8,995.00
PRO-5TRI356-VFP	PRO-5TRI356-VFP SM OTDR w/LTS, VFL, VIP	\$9,495.00



Features:

- Instant On
- 36 dB Dynamic Range
- Short 1 meter Dead Zone
- SM, MM, Quad Units Available
- Fiber Inspection Video Probe Port
- Visible Fault Locator
- Onboard Memory of ~500 traces
- Auto-Wavelength Power Meter
- Stable Light Source
- Event Table with Pass/Fail Feature
- Context Sensitive Help
- Light Weight Rugged Enclosure
- Telcordia SR4731 Compatible Software
- Long Battery Life
- Full Auto, Construction and Expert Modes

Standard Accessories

Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Interchangeable FC/ST and SC Adapters, Windows/Telcordia SR4731 Software, Rubber Boot and Manual on CD

Visible Light Source

Emitter Type	Laser Photo Diode 1100 - 1700nm InGaAs -70~+9dBm with interchangeable FC Adapter
Wavelength	650nm ±5nm
Connector Type	2.5mm Universal
Output Power	1mW Max

Power Meter Specifications

Detector Type	InGaAs
Connector Type	2.5mm Interchangeable
Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Calibrated Wavelengths	850,1300,1310,1490,1550,1625nm
Units of Measurement	dBm, dB
Resolution	.01 dB
Power Measurement Uncertainty	± 0.18 dB under reference conditions, ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Autotest Range	0 to -40dB

Light Source Specifications

Fiber Type	Single mode, Multimode
Wavelengths	850, 1300, 1310, 1550 nm ±20nm
Output Power	0 dBm (-3dBm @ 1550nm)
Laser Safety Classification	Class I Safety Per FDA/CDRH and IEC-825-1 Regulation
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz

PRECISION RATED OPTICS OTDRS

PRO[®] CWDM-LR / CWDM-HR

Hand-Held OTDR

All the features expected in a hand held OTDR and more are incorporated in the PRO-CWDM LR/HR Series. It is available in a variety of wavelengths with up to four wavelengths per unit. The Standard units are 1471/1491/1511/1531nm and 1551/ 1571/1591/1611nm. Other wavelengths combinations are available upon request.

Use the light source in CW mode with the onboard broadband power meter with selectable wavelengths. This OTDR is fast, easy to use, affordable and rugged. It boasts a short dead zone, bright 4" color display and with an onboard context sensitive help system the OTDR has a minimal learning curve for all users.

The PRO-CWDM weighs in at less than 2.0 pounds with a hardened water resistant enclosure, this OTDR is great for all conditions. The rubber boot with bail will add protection and provides the ideal angle for viewing the display while operating on a work bench.



SPECIFICATIONS

	CWDM-LR	CWDM-HR
Wavelength Range	1471/1494/1511/ 1531nm ±3nm	1551/1571/1591/ 1611nm ±3nm
Dynamic Range	30dB	
Pulse Width	20 - 10,000 ns	
Units of Measurement	km, kf, mi	
Event Dead zone	2m	
Attenuation Dead Zone	5m	
Resolution	.25 - 64m	
Full Scale Distance Range	1-64km MM , 1-240km SM	
Typical Real-time Refresh Rate	4 Hz	
Group Index of Refraction (GIR)	1.024 - 2.048	
Linearity	± .05 dB/dB	
Memory Capacity	1000	
Power Supply / Charger Universal	Universal	
Battery	8hr	
Storage Temperature	-20 to 60 C	
Operating Temperature Range	-10 to 50 C	
Weight	2 lbs	

Features

- Instant On
- Fast Real time
- 30 dB Dynamic Range
- Flexible Wavelength Configuration
- Event Table with Pass/Fail Feature
- Short Dead Zone
- Interchangeable Fiber Optic Connectors
- Video Inspection capability
- Broadband Power Meter
- Trace Overlay Capability
- Onboard Memory for 1000 traces
- Visible Fault Locator
- USB Flash Drive Port and Mini USB/PC Port
- On-Screen Tutorials
- Light Weight Rugged Enclosure
- Easy To Read Color Display
- Telcordia SR4731 Compatible Software
- Long Battery Life

Standard Accessories

Universal Power Adapter w/US, UK, Continental Europe, and Australian Plugs, Interchangeable FC/ST and SC Adapters, Windows/Telcordia SR4731 Software, Rubber Boot

Ordering Information

PRO-CWDM-LR	PRO-CWDM-LR	\$9,995.00
PRO-CWDM-HR	PRO-CWDM-HR	\$9,995.00

PRO[®] DWDM-LR / DWDM-HR

C Band/L Band Optical Spectrum Analyzer

The OSA Optical Spectrum Analyzer is the most rugged and affordable full featured Mini OSA in the market. It is designed for simple operation and is suited for field or lab use. The Mini OSA is available in up to 88 channels for C or L bands with 50 or 100 GHz channel spacing and displays a full scan twice a second.

The OSA offers high end features such as Power Tilt for channel equalization and Gain Tilt to adjust EDFA gain flatness. With its one button AutoTest feature, a full set of selectable scale limits and thresholds, the OSA makes zeroing in on channel measurements easy. For flexibility the channels are selected in wavelength or frequency and the information is displayed in graph or table mode on the 4 inch, high brightness color LCD.

The unit allows users to set Pass/Fail thresholds and can store up to 1000 tests that can be downloaded via the USB PC or USB flash ports and documented with the included certification software for fast, easy reporting. The onboard Help system guides new users through operation and assists in parameter settings. The OSA is housed in a rugged metal enclosure with a robust protective boot.



SPECIFICATIONS

	DWDM-LR	DWDM-HR
Wavelength Range	C-Band 1530 -1561nm (196.0 THz - 192.0THz)	L-Band 1574-1608nm (190.5 THz - 186.3 THz)
Channel Spacing	50GHz, 100GHz	
Wavelength Accuracy	±0.1nm	
Channel Power Range	+10dBm to -50dBm	
Absolute Accuracy	±1 dB	
Max Composite Power	+28 dBm	
PDL	±0.15dB	
Optical Rejection Ratio	40dBc (@50GHz)	
Measurement Time	< 1/2 Second	
Readout Resolution	0.01dB	
Return Loss	>40dB	
Optical Interface	Universal UPC (FC/SC)	
Graphical Display	Bar Graph and Table View	
Display	4 in Color TFT	
Dimensions	7.75 x 4.5 x 2.25 inches	
Weight	2 lbs	
Battery	Rechargeable NiMH - 8 hours operating time	
Power	100-240 universal US, GB, EU, AU Mains	
Environmental	Operation -10°C to 50°C	

Features

- Available for DWDM
- Up To 88 Channels
- 50 or 100 GHz
- Pass/Fail Thresholds and Drift Statistics
- Fast Real Time with <1/2 second Update
- Bar Graph and Table Displays
- Auto Test Zooms in on Active Channels
- Rugged Case w/Impact Resistant Boot
- Solid State Optics-No Moving Parts
- Easy Operation with Help Mode
- Available for C, L Bands
- 4" Color Display
- 8hr Battery Life
- Impact Resistant Boot
- Stores 1000 test
- USB/PC and USB Flash ports

Standard Accessories

Universal power supply with mains for US, UK, CE and AU. Interchangeable FC and SC adapters, Window's compatible software, USB cable, manual and rubber boot

Ordering Information

PRO-DWDM-LR	<i>PRO-DWDM-LR C-Band OSA</i>	\$9,995.00
PRO-DWDM-HR	<i>PRO-DWDM-HR L-Band OSA</i>	\$9,995.00

PRECISION RATED OPTICS OTDRS

PRO[®] Multi-Tasking Technician Tool

8 Channel CWDM Channel Analyzer

1310/1550 SM OTDR w/LTS, VFL & VIP

The PRO-8CW/35SM is a true multi-tasker with all the features and applications found in much higher priced test equipment. This is a dual wavelength OTDR, Eight Channel CWDM Channel Analyzer, Stable Light Source, Broadband Power Meter, Visual Fault Locator and Video Inspections Scope all in one unit. The OTDR has a 36/34dB (1310/1550) dynamic range and a short 1 meter dead zone. The Channel Analyzer has a 1/4 second refresh rate while scanning the top eight CWDM channels on the ITU grid (1471-1611nm). For flexibility the channel numbers are selected in wavelength or frequency and the information is displayed in graph and table mode on the 4 inch, high brightness color LCD.

This unit can store up to ~500 OTDR traces, 1000 CWDM scans, 10000 LTS measurements and 50 Video Scope images. Tests can be downloaded via the USB PC or USB flash ports and documented with the included Cert-Soft certification software to create professional reports. The video scope helps ensure connector cleanliness and integrity prior to connecting to the fiber optic port. The onboard Help system guides new users through operation and assists in parameter settings. The PRO-8CW/35SM is housed in a rugged metal enclosure with a robust protective boot.

**OTDR**

Wavelength	1310, 1550,
Dynamic Range	36/34dB SM,
Pulse Width	5 - 20,000 ns
Units of Measurement	km, kf, mi
Event Dead zone	1m
Attenuation Dead Zone	4m
Resolution	.125 - 32m
Distance Uncertainty	±(0.75m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	1-240km SM
Typical Real-time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	± .05 dB/dB
Connector Styles	FC, ST, SC Interchangeable
Memory Capacity	~500

Power Meter Specifications

Detector Type	InGaAs
Connector Type	2.5mm Interchangeable
Dynamic Range	+5 to -77dB (CATV - +25 to -57dB)
Calibrated Wavelengths	850,1300,1310,1490,1550,1625nm
Units of Measurement	dBm, dB
Resolution	.01 dB
Power Measurement Uncertainty	± 0.18 dB under reference conditions, ± 0.25 dB from 0 to -65 dBm, ± 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Auto Test Range	0 to -40dB

ORDERING INFORMATION

PRO-8CW35SMVFP *PRO All in One* **\$9,995.00**

CWDM Channel Analyzer

Wavelength Range	8 Channel 1471-1611nm
Channel Spacing	20nm
Channel Pass Band	±6.5nm
Channel Power Range	+5dBm to -50dBm
Absolute Accuracy	±1 dB
Max Composite Power	+23dBm
PDL	±0.2dB
Adjacent Channel Isolation	30dB
Measurement Time	< 1/2 Second
Readout Resolution	0.01dB
Return Loss	>40dB
Optical Interface	Universal UPC (FC/SC)
Graphical Display	Bar Graph and Table View
Memory Capacity	1000 scans

Visible Light Source

Emitter Type	Laser Photo diode 1100 - 1700nm InGaAs -70 - +9dBm with interchangeable FC Adapter
Wavelength	650nm ±5nm
Connector Type	2.5mm Universal
Output Power	1mW Max.

Light Source Specifications

Fiber Type	Single mode, Multimode
Wavelengths	850, 1300, 1310, 1550 nm ±20nm
Output Power	0 dBm (-3dBm @ 1550nm)
Laser Safety Classification	Class I Safety Per FDA/CDRH and IEC-825-1 Regulation
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz

PRO[®] - 3000 OTDRs

Handheld OTDR

The PRO-3000s is a portable OTDR which is stable + durable and aims at broadcast and telecommunications network measurement. It is also the first OTDR to achieve data share of point-to-point and point-to-multi-point via internet. You can remotely control this instrument via PC when conducting fiber maintenance and testing.

Features

- Remotely control the instruments via internet*
- 6.4" color TFT LCD
- Convenient one-button testing
- High-speed signal processing, less measurement time, and faster result analysis
- USB port, SD card slot, and Ethernet Port
- Compact and lightweight
- Shock and water proof, the battery typically exceeds 10 hours of working time
- Linux operating system for easy upgrade
- Battery is changeable, on site
- Supporter for hand-free testing
- Anti-shock rubber protection



1310/1550 Wavelength

Specifications

Distance (Km)	5m-200km
Pulse width(ns)	5ns-20μs
Measurement time	user-defined (smart link) with real-time measurement function
Distance uncertainty(m)	±(0.5m ±0.001%×testing distance±resolution)
Linearity	±0.05dB/dB
Loss threshold(dB)	0.01dB
Loss resolution(dB)	0.001dB
Distance resolution(m)	0.1m
Sampling points	64000
Data storage	1000 items (PRO-3533/PRO-3331) / 2000 items (PRO-3735)
Display	6.4 inch TFT color LCD
Fiber adapter	FC/PC SC/PC
Interface	USB(Principal and subordinate each),SD,RJ45
Battery	built-in rechargeable Li-ion battery (charging time <4 hours, working time >10 hours)
Power	AC/DC adapter (Input AC90-240V ±10%,Output DC18V)
Operating temperature	-10°C~40°C (14°F~104°F)
Storage temperature	-40°C~70°C (-40°F~158°F)
Relative humidity	<80%
Weight	<2.5Kg (<5.51 lbs)
Dimensions (mm)	248×201×75mm (9.76 x 7.91 x 2.95 in)

ORDERING INFORMATION

Type	wavelength (nm)	dynamic range (dB)	event dead zone (m)	attenuation dead zone (m)	Price
PRO-3331	1310±20/1550±20	33/31	<1.5m	<10m	\$5,080.00
PRO-3533	1310±20/1550±20	35/33	<1.5m	<10m	\$5,415.00
PRO-3735	1310±20/1550±20	37/35	<1.5m	<10m	\$6,265.00

Included Accessories

OTDR, AC-DC power adapter/charger, FC adapter, SC adapter, Manual, USB cord, Carrying bag, Toolbox software CD, SD card (1gb)

PRECISION RATED OPTICS OTDRS

PRO[®] OBL-201A / OFL-301A

Optical Break / Fault Locator

The OBL-201A and OFL-301A are high performance optical fiber troubleshooters for locating fiber breaks and imperfections. It detects the break location in the optical fiber and displays the result on the LCD screen. This portable and easy to use device is an ideal instrument for fiber cable construction and maintenance.

Applications:

- FTTx fiber certification
- CATV technicians (Field verification of fiber continuity)
- MDU installation (Verification of fiber continuity)
- Any application where affordable, "distance to break" testing is required

Features

- Short dead zone 3m
- Backlight for easy operation in low light
- Rechargeable batteries
- Data transfer via USB interface
- Interchangeable (SC/ST/SC) connectors

SPECIFICATIONS

Item / Model No.	OFL - 301A	OBL-201A
Fiber Type	9/125 μ m Single Mode	
Wavelength	1550 \pm 20 nm	
Emitter Type	LD	
Connector Type	FC/SC/ST	FC/PC (interchangeable SC,ST)
Pulse Width	10ns/20ns/40ns/80ns/160ns/320ns/640ns/1280ns/2560ns/5120ns/12400ns/24800ns (auto-switch)	
Max. Output Power	100 mW	
Max. Measurement Range	130 Km	
Distance Accuracy	\pm 0.8 m + 0.001% x Distance	
Data Storage	999 Measurements	
Event Dead Zone	3 m	
Power Supply	AC/DC adapter & rechargeable batteries 4	
Battery Life	15,000 times measurement	
Operating Temp.	14~122°F (-10 ~ +50°C)	
Storage Temp.	-4 ~ 140°F (20 ~ +60°C)	
Humidity	0 ~ 85% (non-condensing)	
Communication Port	Mini USB	
Weight	10 oz. (286 g)	
Dimension	7.5 x 4.1 x 2.1 in (190 x 105 x 55 mm)	

**OBL-201A:**

Programed to find one fault at a time

OFL-301A:

Programed to find multiple faults at a time

ORDERING INFORMATION

OBL-201A	<i>OBL - 201A</i>	\$1,895.00
OFL-301A	<i>OFL - 301A</i>	\$3,225.00

Standard Accessories

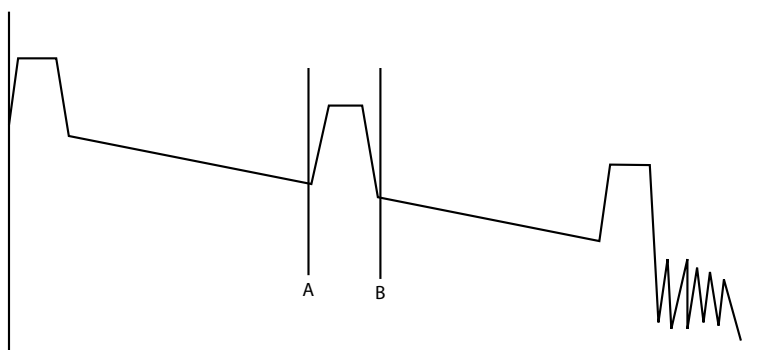
Rechargeable NiHM battery(4 pcs), AC adapter, PC software and USB cable, travel bag, test report, and manual.

OPTIONAL ACCESSORIES

PRO-CT-001	<i>Fiber Optic Cleaning Cassette</i>	\$85.00
PRO-CT-004	<i>Cleaning Cassette Replacement Reel</i>	\$25.00
VFL-5	<i>650\pm10nm Pocket Visual Fault Locator</i>	\$175.00
VFL-10	<i>650nm Pocket Visual Fault Locator</i>	\$250.00
PRO-CS-250	<i>IBC Cleaner (2.5mm) Cleaning Tool</i>	\$63.99
PRO-CS-125	<i>IBC Cleaner (1.25mm) Cleaning Tool</i>	\$63.99

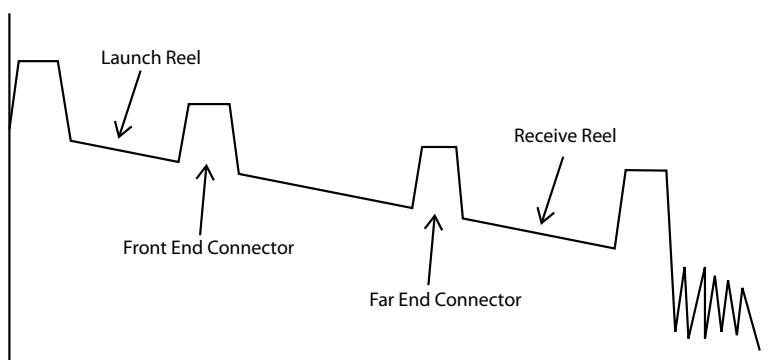
Why Use a Launch Box?

What is a pulse Suppressor or Launch Box? A pulse suppressor or launch box is a length of either SM fiber or MM fiber coiled up in a case that is about 300m to 2.2Km in length. The whole length of the fiber is secured in a case and two patch cords usually extend from the case which are connected to the input and the output of the fiber. You may also hear the launch box being called a deadzone eliminator which is really a myth and it does not eliminate deadzones. If the Launch Box does not eliminate the deadzone then why is it used? Adding a length of fiber before the initial connection will not eliminate that connection or deadzone it simply moves it out the length of the fiber added. The pulse of light will still have to transit this connection and it will scatter high levels of light and the result will be a Fresnel Reflection with its associated deadzone. The deadzone will not be eliminated or effectually shortened in anyway. If the pulse of light remains the same length, the deadzone will remain the same length with or without a pulse suppressor. The only effective way to shorten a deadzone is to shorten the light pulse. A launch box is used to really identify the quality of the first connector within a fiber span. Without the use of a launch cord there is no linear backscatter before the first connector and there is no way to accurately measure loss or reflectance values of that first connector. With the use of a launch box the technician can now place a cursor (A) in front of the first connector and place the (B) cursor just after the reflection in order to accurately measure the initial connector loss. The analysis software in the OTDR can now also identify the true reflectance and loss value because of the linear backscatter before the initial connector due to the addition of the launch box.



What about the far end Connector?

Also, a launch box is sometimes used at the end of the fiber. A launch box is needed at the end of the fiber to verify the quality of the end connection. With a launch and receive cable the OTDR can now characterize both the front end and far end connections due to the addition of the fiber spools within the launch box. The backscattered signal can now be measured on both sides of the connectors allowing for loss and reflectance measurements of the near and far end.



The use of an OTDR is used to help identify all the characteristics of the fiber including splices, connectors and the quality of the fiber itself; however test fiber boxes are required to really test the quality of the front end and far end connectors.

Advantages:

- Identifies quality of front end and far end connectors for loss and reflectance
- Improves EMD in Multimode fibers for more precise measurements
- Helps identify good launch levels from an OTDR using a good known lead in fiber.

Note: For the most accurate results the test fiber being used should match the fiber being tested such as type, core size and connector type. The length of the test boxes should be longer than the pulse width and needs to be long enough to show linear backscatter before the connectors.

LAUNCH BOX

PRO[®] Launch Boxes

Used in conjunction with PRO Optical Time Domain Reflectometer (OTDR). Fiber optic pulse suppressors eliminate dead zones. Dead zones occur after a reflective event. The first reflective event where the OTDR plugs into the bulk head, will have a 2 – 5 meter dead zone. Making it impossible to measure loss 2 – 5 meters beyond the event. The use of a pulse suppressor will move the dead zone away from crucial connections and splice points. Providing your trace with accurate test results in areas where loss must be calculated. Having a second pulse suppressor at the end of the cable under test will enable the OTDR to compare back scatter levels before and after the last reflective event.

Testing & Troubleshooting:

Plug side A of the pulse suppressor directly into the OTDR, and side B into the cable under test. This will eliminate dead zones for your first connection point. Plug pulse suppressor #2 into the end of cable under test as a landing point. This gives you the ability to see loss on both sides of the last reflective event.

Optional: "Test Box"

As an optional feature, you can request optical events be added to your pulse suppressor to create a "test box" which is used to verify the accuracy of your OTDR. (e.g. A test box measurement which matches the reference documentation supplied means your OTDR is still calibrated) Recommended length is 1KM+ to ensure accuracy over distance.

Features:

- Rugged weatherproof case
- 2 meter lead cables
- Corning fiber optic cable
- "Test Box" options
- Fusion splice
- Macro bend
- Attenuator



Model Number	Description	Price
LB-M-100-XX-YY	100 meter Multimode (62.5/125)	\$539.00
LB-M-300-XX-YY	300 meter Multimode (62.5/125)	\$559.00
LB-N-100-XX-YY	100 meter Multimode (50/125)	\$539.00
LB-N-300-XX-YY	300 meter Multimode (50/125)	\$557.00
LB-S-1KM-XX-YY	1000 meter Singlemode (9/125)	\$599.00
LB-S-500-XX-YY	500 meter Singlemode (9/125)	\$579.00
LB-S-300-XX-YY	300 meter Singlemode (9/125)	\$559.00

Replace the XX and YY from the specifications table (above) with the connector style of your choosing. The XX represents the first connector within your Pulse Suppressor and the YY represents the second connector.

Connector Style	SC (UPC / APC)	ST (UPC)	FC (UPC / APC)	LC (UPC / APC)
XX	CU / CA	TU	FU / FA	LU / LA
YY	CU / CA	TU	FU / FA	LU / LA

*Custom configurations also available.
Call for more options.*

AXS-200/850

Ethernet Test Set

Part of EXFO's wide-ranging Ethernet test offering, the AXS-200/850 Ethernet Test Set delivers comprehensive test functionalities without the typical complexity associated with Ethernet/IP testing. Whether for installing, turning up or maintaining Ethernet and IP services, the AXS-200/850 is ready to perform. Thanks to a feature set that includes bidirectional RFC 2544, traffic generation and monitoring, multistream background traffic, BERT, as well as IP connectivity tools such as ping and traceroute, this lightweight, handheld unit provides front-line technicians with all the tools they need to get through their test cycles quickly and efficiently.



AXS-850-XX-XX

Models

AXS-850 = Ethernet 10/100 Base-T electrical
AXS-850-1 = Ethernet 10/100/1000 electrical and GigE optical

Example: AXS-850-100optical-Cable_test

Note

a. Includes GigE electrical and GigE optical; available only with AXS-850-1.

Options

00 = Without options
100optical = Enable support for 100M optical interface
GigE = Enable support for 1000Base-T and GigE optical a
Cable_test = Cable test
TRAFFIC_GEN = Traffic generation and monitoring test
MULTI_STREAM = Multiple streams
IPV6 = Internet protocol version 6

BIDIRECTIONAL SFP UPGRADES

FTB-8596	SFP modules Bidir 1490TX 1310RX 1000BASE-BX10	\$364.00
FTB-8597	SFP modules Bidir 1310TX 1490RX 1000BASE-BX10	\$280.00
FTB-8598	SFP modules Bidir 1310TX 1490/1550RX 1000BASE-BX	\$380.00
FTB-8599	SFP modules Bidir 1550TX 1310RX 1000BASE-BX	\$396.00

SFP UPGRADES

FTB-8590	SFP modules GigE/FC/2FC at 850 nm, MM, < 500 m	\$100.00
FTB-8591	SFP modules GigE/FC/2FC at 1310 nm, 10 km	\$260.00
FTB-8592	SFP modules GigE/FC/2FC at 1550 nm, 90 km	\$780.00
FTB-85910	SFP modules 100Base-FX, 1340 nm, MM, 2 km	\$95.00
FTB-85911	SFP modules 100Base-LX10, 1310 nm, SM, 15 km	\$210.00

Call For Configurations

TESTING

RFC 2544	Throughput, back-to-back, frame loss and latency measurements according to RFC 2544. Frame size: RFC-defined sizes, user-configurable between 1-7 sizes.
Traffic generation and monitoring	Capability to generate traffic and monitor Ethernet and IP networks. Capability to perform traffic shaping with the following statistics: throughput, frame loss, sequencing, packet jitter, latency, frame size, traffic type and flow control
Multistream background traffic	Capability to transmit and monitor up to three additional streams over Ethernet and IP networks. Configurable per-stream analysis; capability to set packet size, MAC source/destination address, VLAN ID, VLAN priority, IP source/destination address, ToS field, DSCP field, TTL, UDP source/destination port and payload.
BERT	Up to layer 4 supported with or without VLAN Q-in-Q.
Patterns (BERT)	PRBS 2E9-1, PRBS 2E11-1, PRBS 2E15-1, PRBS 2E20-1, PRBS 2E23-1, PRBS 2E31-1 and one user pattern. Capability to invert patterns.
Bit error insertion	1-50
Error measurement	Jabber/giant, runt, undersize, oversize, FCS, symbol, alignment, collision, late collision, excessive collision.
Error measurement (BERT)	Bit error, bit mismatch 0, bit mismatch 1.
Alarm detection	LOS, link down, pattern loss, frequency.
VLAN stacking	Capability to generate streams with up to two layers of VLAN (including IEEE 802.1ad Q-in-Q tagged VLAN) traffic by VLAN ID or VLAN priority at any of the stacked VLAN layers.
Cable testing	Category 5 cable (or better), 100 Ω UTP/STP cable, ≤120 meters
Service disruption time (SDT) measurement	Includes statistics such as longest, shortest, last, average, count, total and pass/fail thresholds.
IPv6 testing	Includes BERT, RFC 2544, traffic generation and monitoring, background streams, Smart Loopback, remote loopback, ping and traceroute.

AXS-200/855

Part of the SharpTESTER Access Line

Whether for mobile backhaul, TDM/ISDN or Ethernet commercial services testing, the AXS-200/855 streamlines processes and seamlessly transitions from E1/DS1, DS3 or PRI circuits, to a full suite of Ethernet performance test functionalities without swapping modules or test units—using a single preloaded software package.

FTB-8510B and FTB8510G Packet Blazer 1 and 10 Gigabit Ethernet Test Modules

Housed in the FTB-400 and FTB-200 platforms, the FTB-8510B and FTB-8510G modules test Ethernet connectivity in its native format: 10/100/1000Base-T, 1000Base-SX, 1000Base-LX, 1000Base-ZX, 10GBASE-xR or 10GBASE-xW. They can also be used to test next-generation SONET/SDH, hybrid multiplexers, dark fiber or xWDM networks running 1 and 10 Gigabit Ethernet interfaces.

FTB-8120NGE and FTB-8130NGE Power Blazer Next-Generation Multiservice Test Modules

Housed in the FTB-200 platform, the FTB-8120NGE (2.5/2.7 Gbit/s) and FTB-8130NGE (10/10.7 Gbit/s) Power Blazer test modules specifically address field commissioning and maintenance requirements, providing SONET/SDH and Ethernet test functions in the industry's smallest and most efficient form factor and setting a new standard for multiservice field testing.

JDSU ETHERNET TESTERS

10M-1G ETHERNET TESTER

SmartClass™ Ethernet

The SmartClass Ethernet provides an economical 1G Ethernet test set with optical and electrical interfaces that is an easy-to-use, entry-level Ethernet/IP tester for front-line technicians who support Metro Ethernet networks. The compact, rugged, and battery-operated SmartClass is ideal for technicians turning on Ethernet and Internet Protocol (IP) services in the field.

Key Features:

- Generates and measures L2/L3 traffic on up to 1G electrical or optical Ethernet interfaces with VLAN, Q-in-Q tags, or Multiple Streams and Multi-Protocol Label Switching (MPLS) labels
- RFC2544 proves acceptance for Ethernet service level agreements
- MPLS Test checks for correct policing and prioritization in MPLS domains using the MPLS option
- Physical Layer tests verify integrity of the physical layer to pass traffic before testing throughput
- Ethernet Loopback completes the JDSU Ethernet field test portfolio

**SmartClass Pricing and Configuration**

CSC-ETHLP-P2	SmartClass Loopback Optical Configuration, SmartClass Ethernet handheld unit optioned for loopback on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case. No SFPs or optical cables included in this configuration. To get those accessories, add the appropriate accessories or purchase the CSC-ETHLP-P3 package.	\$2,825.55
CSC-ETHLP-P3	SmartClass Loopback Complete Configuration, SmartClass Ethernet handheld unit optioned for loopback on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes one 850nm SFP, one 1310nm SFP, fiber patch cables, power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case. Note this package contains all optical cables that would be considered necessary to properly use the optical option. Additional SFPs and cables available for purchase if needed.	\$3,298.05
CSC-ETHTR-P1	SmartClass Ethernet Electrical Configuration, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps electrical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, 'One Expert(TM) Handheld Manager' software for easy result management, soft carry case.	\$3,298.05
CSC-ETHTR-P2	SmartClass Ethernet Optical Configuration, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, 'One Expert(TM) Handheld Manager' software for easy result management, soft carry case. No SFPs or optical cables included in this configuration. To get those accessories, add the appropriate accessories or purchase the CSC-ETHTR-P3 package	\$4,710.83
CSC-ETHTR-P3	SmartClass Ethernet Complete Package, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes one 850nm SFP, one 1310nm SFP, fiber patch cables, power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case. Note this package contains all optical cables that would be considered necessary to properly use the optical option. Additional SFPs and optical cables available for purchase if needed.	\$5,183.33
CSC-MPLS	CSC-MPLS	\$462.00
CSC-MPLS-U1	Software Option to support MPLS in the SmartClass Ethernet. This option enables the MPLS software in the SmartClass Ethernet product on units out in the field. For an option included in SmartClass products shipped from the factory, please use part CSC-MPLS. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings then select Version Info(#2) and read the SCE ID Number. This option can only be enabled on Units with Software version 3 and above.	\$462.00
CSC-MSTR	FACTORY INSTALLED Software Option to support Multiple Streams traffic generation in the SmartClass Ethernet. This option enables the Multiple Streams option in the SmartClass Ethernet product on units shipped from the factory. For a field upgrade, please use part CSC-MSTR-U1 as this part does not support field upgrades	\$546.00
CSC-MSTR-U1	Software Option to support Multiple Streams in the SmartClass Ethernet. This option enables the Multiple Streams option in the SmartClass Ethernet product on units out in the field. CSC-MSTR-U1 part is only for field upgrades. For an option included in SmartClass products shipped from the factory, please use part CSC-MSTR. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings then select Version Info(#2) and read the SCE ID Number. This option can only be enabled on Units with Software version 3 and above.	\$546.00
CSC-OPT-U1	User installable software option enabling the optical interface in traffic transmitting enabled SmartClass Ethernet. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings (#5) then select Version Info(#2) and read the SCE ID Number.	\$1,255.80

Accessories

CSC-OPT	Optical Option	CSC-MSTR-U1	Multiple Streams Field Upgrade	AC-SFP-CWDM-2	1491 nm CWDM SFP
CSC-TRF	Traffic Option	AC-SFP-1000LX	1000LX SFP	AC-SFP-CWDM-3	1511 nm CWDM SFP
CSC-MPLS	MPLS Option	AC-SFP-1000SX	1000SX SFP	AC-SFP-CWDM-4	1531 nm CWDM SFP
CSC-MPLS-U1	MPLS Field Upgrade	AC-SFP-1000ZX	1000ZX SFP	AC-SFP-CWDM-5	1551 nm CWDM SFP
CSC-ASY	Asy-RFC2544 Option	AC-SFP-1000BX1	1310 nm TX, 1490 nm RX, Single mode SFP	AC-SFP-CWDM-6	1571 nm CWDM SFP
CSC-ASY-U1	Multiple Streams Option	AC-SFP-1000BX2	1490 nm TX, 1310 nm RX, Single mode SFP	AC-SFP-CWDM-7	1591 nm CWDM SFP
CSC-MSTR	Multiple Streams Option	AC-SFP-CWDM-1	1471 nm CWDM SFP	AC-SFP-CWDM-8	1611 nm CWDM SFP + assorted cables

HST-3000

Handheld Service Tester

Features

- 3.8" diagonal, 1/4 VGA, Color Active Matrix display.
- Simplified user interface to facilitate ease-of-use and minimize technicians learning curve.
- Handheld, rugged and portable. Lightweight (1.3kg/2.7lb).
- Weather resistant. Ideal for field use.
- Battery operated (up to 10 hours). Swappable battery pack.
- RS-232, USB and Ethernet connectivity.
- PC replacement - including file transfer, 8MB of storage, VT100 emulation, printing and internet browser.
- Built-in microphone and speaker. Headset connection.

Highlights

- Support for Electrical and Optical Ethernet testing in a single module.
- IPv6 option to enable installation and troubleshooting of IPv6 networks.
- Modular hardware and software architecture is flexible and easily upgraded in the field.
- Supports Triple Play and FTTX testing, as well as TDM network testing.
- Future-proof solution for circuit-switch to packet-switch migration.
- Fully configurable - buy only what you need now, easily upgrade as needs change.
- Rugged, hand-held platform ideal for field use.

Applications

- Ability to perform traffic generation up to interface line rate and support automated RFC2544 at Layers 2 to 4 (Eth/IP/TCP/UDP).
- Ability to generate and analyze traffic with various encapsulation schemes such as VLAN, VLAN Stacking (Q-in-Q), and MPLS.
- PPPoE protocol support for emulation of data traffic in the last mile.
- FTTX and Triple Play testing - Advanced tests for the installation and maintenance of DSL and PON-based Triple Play IP voice, video, and data services.
- xDSL testing - verify the circuit and service with modem emulation and replacement for ADSL, ADSL2, ADSL2+, G.SHDSL, and VDSL2.
- Complete copper testing including DVOM, TDR, wideband TIMS, spectral noise, and resistive fault locator (RFL).
- GigE and 10/100 Ethernet - Generate traffic and troubleshoot Ethernet links, both optical and electrical, for point to point or routed networks.
- North American 'Special Services' - Turn-up and troubleshooting for North American business-class data services: Ethernet, T1, DS3, PCM TIMS, PCM Signaling, DDS-LL, Frame Relay, ISDN PRI, ISDN BRI, and Datacom.
- Global Business Services - Turn-up and troubleshooting for global business-class data services: Ethernet, E1, ISDN BRA, G.SHDSL, and Datacom.
- TechComplete - Improve xDSL processes through automation and centralized, web-based management tools.



HST Pricing and Configuration

HST-PKG2	HST-3000 base unit with copper test capability, Combination copper (dual tip/ring and ground connectors) and ADSL2/2+ Annex A ATU-R modem module, Advanced IP test functionality, FTP and Web browsing, DVOM functionality, TDR functionality, RJ-45 to clip lead cable to outside plant ADSL2/2+ testing, Tip/ring/ground copper lineman cable set, Base unit manual, CD test and troubleshooting manuals, Carrying case	\$4,400.00
HST-PKG3	HST-3000 base unit with copper test capability, Combination copper (dual tip/ring and ground connectors), Advanced IP test functionality, FTP and Web browsing, TDR functionality, Tip/ring/ground copper lineman cable set, Base unit manual, CD test and troubleshooting manuals, Carrying case	\$3,850.00
HST-PKG6	HST 3000 platform without copper test capability, Dual port T1 testing module, PCM TIMS test option, PCM signaling test option, ISDN PRI option, VT-100 emulation feature, Pulse Shape software, Cable kit for DS1 testing, Base unit manual, CD manuals for test application, Carrying case	\$5,450.00
HST-PKG8	HST-3000 base unit without copper test capability, Combo dual port T1 and DS3 testing module, PCM TIMS test option, PCM signaling test option, ISDN PRI option, Cable kit for T1/DS1 testing, Cable kit for DS3 testing, VT-100 emulation feature, Pulse Shape software, Base unit manual, CD manuals for test application, Carrying case	\$6,500.00
HST-PKG9	HST-3000 base unit with copper test capability, Combination Dual port T1 testing and copper testing module, DVOM, TDR, PCM TIMS test option, PCM signaling test option, ISDN PRI option, VT-100 emulation feature, Pulse Shape software, Cable kit for DS1 testing, Tip/ring cable set with ground lineman cable set, Base unit manual, CD manuals for test applications, Carrying case	\$6,800.00

EXFO POWER METERS & LIGHT SOURCES



Introducing EXFO's FiberBasix testers, a series of handheld instruments designed to meet your basic day-to-day test requirements while helping you stay within budget. These worry-free, straightforward solutions provide the tools you need to accurately measure signal attenuation during fiber-optic cable installation.

EXFO FiberBasix 50 TEST KITS

Pocket-sized Optical Test Kits

FiberBasix 50 Handheld Testers deliver simple, accurate measurement of signal attenuation during fiber-optic cable installation. Buy the ELS-50 Light Source or EPM-50 Power Meter individually, or choose from five test kits designed for specific users/testing needs: LAN, outside plant, contractors, FTTH and CATV.



An FTTH Test Solution

These products are part of EXFO's series of FTTH optical test products. They allow for the testing of passive optical networks (PONs) at the three main wavelengths (1310, 1490 and 1550 nm) used in fiber-to-the-home (FTTH) and fiber-to-the-premises (FTTP) networks and comply with the ITU-T G.983 and G.984 Recommendation series and the IEEE 802.3ah standard.

ORDERING INFORMATION

FBK-54	<i>FiberBasix 50 FTTH Test Kit</i>	\$1,755.00
Kit Includes: Including: EPM-53X-RB-PMA-22 FiberBasix Power Meter with High-Power InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-235BL-RB-LSA-89 FiberBasix Optical Source 1310/1490/1550 nm laser (9/125µm) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates		
FBK-52	<i>FiberBasix 50 Outside Plant Test Kit</i>	\$1,365.00
Kit Includes: Including: EPM-53-RB-PMA-22 FiberBasix Power Meter with InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-23BL-RB-LSA-89 FiberBasix Optical Source 1310/1550 nm laser (9/125µm) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates		
FBK-53	<i>FiberBasix 50 Contractor Test Kit</i>	\$1,645.00
Kit Includes: Including: EPM-53-RB-PMA-22 FiberBasix Power Meter with InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-12C-RB-LSA-89 FiberBasix Optical Source 850/1300 nm LED source (50/125 µm) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 2x LSA-91 SC connector adapter - 2x LSA-90 ST connector adapter - Carrying case GP-10-061, Nine AA batteries, Three soft pouches - Quick Reference Cards - Calibration & Compliance Certificates		
FBK-55	<i>FiberBasix 50 CATV Test Kit</i>	\$1,395.00
Kit Includes: Including: EPM-53X-RB-PMA-22 FiberBasix Power Meter with High-Power InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-23BL-RB-LSA-89 FiberBasix Optical Source 1310/1550 nm laser (9/125µm) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates		

EXFO FPM-600 POWER METER

FTTx Test Solution

The FPM-600 Power Meters are the ideal tool for link and system qualification. Thanks to its memory capacity of 1000 data items and converter software, it facilitates data management and enables data transfer to a PC via USB connection. The FPM-600 features a green/red LED indicator that gives you a pass or fail test verdict according to the thresholds you have defined.



ORDERING INFORMATION

FPM-602-XX	<i>EXFO FPM-600 Power Meter (GE Detector)</i>	\$1,260.00
FPM-602X-XX	<i>High-power Ge detector</i>	\$800.00

EXFO FLS-600 LIGHT SOURCE

Automatic Wavelength Switching

The FLS-600 Light Source are designed for first-class versatility. Choose among laser, LED models, as well as various wavelength options. What's more, you can save time by building a list of your "favorite" wavelengths and only sweeping through these wavelengths when testing.



ORDERING INFORMATION

FLS-600-23BL	<i>1310/1550 nm laser source (9/125 µm)</i>	\$1,810.00
FLS-600-12D23BL	<i>850/1300 nm LED source (62.5/125 µm)</i>	\$2,250.00

EXFO FOT-930 POWER METER

Designed for network service providers, network installers and CATV operators, the FOT-930 MaxTester provides fully automated loss test results in 10 seconds for up to three wavelengths, as well as automatic ORL and fiber-length measurement. It combines a powerful light source, a power meter, a visual fault locator, a full-duplex digital talk set and a video fiber inspection probe, and it comes with a large, high-resolution color display and nine hours autonomy—all this and more in an ergonomic, eye-catching handheld package built for today's fiber-optic testing requirements.

This unit easily and efficiently provides complete, high-quality test documentation. Its data logging and management features help users quickly access and download test results to any PC through the RS-232 port for in-depth analysis and first-class report generation.

The FOT-930 MaxTester delivers fast, three-wavelength loss and ORL results based on user-configurable pass/fail thresholds, for error-free testing. It is the only unit of its kind designed for testing both multimode and single-mode fiber. What's more, it comes with a GeX detector, for high-power measurement up to +26 dBm.

Optimized for Testing Passive Optical Networks

This mode lets you configure your FOT-930 MaxTester to suit your FTTx wavelengths and test-unit locations, as well as choose your preferred data presentation options for on-screen display or report generation. Benefits include the display of test data according to FTTx terminology, as well as similar test-data presentation, regardless of the location of main and remote units.

SPECIFICATIONS

	FOT-932	FOT-932X	FOT-933
Detector type	Ge	Gex	InGaAs
Measurement range (dBm)	10 to -70	26 to -55	6 to -73
Wavelength (nm)	800 to 1650	800 to 1650	800 to 1650
Measurement-distance units	kilometers, meters, kilofeet, feet, miles		

ORDERING INFORMATION

FOT-932-XX	Ge detector, Dual lambda 1310/1550 nm laser (9/125 µm)	\$6,870.00
FOT-932X-12C-XX	Ge detector, Four lambda - 1st FasTest Port: 1310/1550 nm laser (9/125 µm), - 2nd FasTest Port: 850/1300 nm LED (50/125 µm)	\$9,545.00
FOT-932X-12D-XX	Ge detector, Four lambda - 1st FasTest Port: 1310/1550 nm laser (9/125 µm), - 2nd FasTest Port: 850/1300 nm LED (62.5/125 µm)	\$9,595.00
FOT-932-5-XX	Ge detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)	\$8,410.00
FOT-932X	High-power Ge detector, Dual lambda 1310/1550 nm laser (9/125 µm)	\$6,920.00



Features

- FasTest and ORL function
- Fiber Inspection Probe connection
- 2 rechargeable batteries (GP-1001) & AC adapter/charger
- Soft carrying case (GP-10-061)
- USB to serial converter; USB to DB9 male (GP-2004)
- Calibration mandrel
- Instruction manual and Certificate of Compliance
- Test report
- Shoulder strap
- Connector adapter EUI-XX
- Connector adapter FOA-XX

Options

VFL	650 nm Visual Fault Locator with universal 2.5 mm adapter	\$475.00
VFT	650 nm Visual fault locator and talk set, 1550 nm Laser (9/125 µm) with headset (GP-1002). Option NOT possible if already 5 wavelengths present on FOT-930.	\$2,965.00
FP4S	FIP-400-P-SINGLE: 400X Video Probe. Comes w/ FIPT-400-FC-SC: FC-SC Bulkhead tip, FIPT-400-U25M: Univ. patchcord tip (2.5mm ferrule), Compartmented plastic case for tips, Software & Instruction manual on CD.	\$1,225.00
FP4D	FIP-400-P-DUAL: 200X/400X Video Probe. Comes w/ FIPT-400-FC-SC: FC-SC Bulkhead tip, FIPT-400-U25M: Univ. patchcord tip (2.5mm ferrule), Compartmented plastic case for tips, Software & Instruction manual on CD.	\$1,595.00

FOT-932X-12C	High-power Ge detector, Four lambda - 1st FasTest Port: 1310/1550 nm laser (9/125 µm), - 2nd FasTest Port: 850/1300 nm LED (50/125 µm)	\$9,545.00
FOT-932X-4	High-power Ge detector, Tri-lambda 1310/1550/1625 nm laser (9/125 µm)	\$9,055.00
FOT-932X-5-XX	High-power Ge detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)	\$8,460.00
FOT-933	InGaAs detector, Dual lambda 1310/1550 nm laser (9/125 µm)	\$6,975.00
FOT-933-4	InGaAs detector, Tri-lambda 1310/1550/1625 nm laser (9/125 µm)	\$9,115.00
FOT-933-5	InGaAs detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)	\$8,510.00

AFL/NOYES POWER METERS & LIGHT SOURCES

NOYES MLP SERIES OPTICAL LOSS KITS

MLP1 Fiber Optic Loss Test Kits

Basic Multimode Test Kit

The MLP1 test kits are inexpensive solutions for testing multimode and single-mode systems. By joining the OPM1 optical power meter and the OLS1 optical light source, the MLP1 is a great kit for beginners or network owners. Two versions of the MLP1 test kit are available for testing Premises networks, LAN, and Gigabit Ethernet. The MLP1-1S test kit includes the OPM1-2C power meter and OLS1-1C light source. The MLP1-2 test kit combines the OPM1-2C optical power meter and OLS1-2C optical light source.

Test Kit Model	MLP 1-1S		MLP 1-2	
Optical Light Source	OLS 1-1C		OLS 1-2C	
Wavelength (nm)	660 - red	850 + 35/-40	850 + 35/-40	1300 + 50/-10
Emitter type	Class 1 (IEC 60825 - 1)			
Connector	ST			
Optical Power Meter	OPM 1-2C			
Power Range	+6 to -60 dBm			
Detector	Ge			

ORDERING INFORMATION

MLP1-1S	<i>MLP1-1S Test Kit, ST connector</i>	\$799.00
MLP1-2	<i>MLP1-2 Test Kit, ST connector</i>	\$995.00

Test jumpers and connector adapters are required for operation (purchased separately).

MLP4-2 Multimode Test Kit

Multimode Kit with Wave ID and Set Reference

The MLP4-2 test kit offers accurate fiber optic testing at an affordable price. Combining the OPM4-2D optical power meter and the OLS1-Dual LED light source in a rugged carry case, the MLP4-2 is a complete test kit for fiber optic LANs and WANs.

Test Kit Model	MLP 4-2	
Optical Light Source	OLS 1-Dual (single port)	
Wavelength (nm)	850 ±30	1300 +50/-10
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC (FC & ST available)	
Optical Power Meter	OPM 4-2D	
Power Range	+6 to -50 dBm / +6 to -45 dBm for 850 nm	
Detector	Ge	

ORDERING INFORMATION

MLP4-2	<i>MLP4-2 Test Kit (-XX = SC, FC, ST connector)</i>	\$1,195.00
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Test jumpers and connector adapters are required for operation (purchased separately).

MLP5-2 Multimode Test Kit

Wave ID, Set Reference, and Data Storage

The MLP 5-2 test kit raises field testing to new standards by combining our popular OPM 5-2D optical power meter, and the OLS 1-Dual LED light source in a rugged carrying case. Used during installations, the MLP 5-2 performs insertion loss measurements on multimode fiber at 850 and 1300 nm, as well as measurements on single-mode fiber at 1300 nm.

Test Kit Model	MLP 5-2	
Optical Light Source	OLS 1-Dual (single port)	
Wavelength (nm)	850 ±30	1300 +50/-10
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC (FC & ST available)	
Optical Power Meter	OPM 5-2D	
Power Range	+6 to -60 dBm	
Detector	Ge	
Data Storage (Items)	Up to 500 per wavelength	

ORDERING INFORMATION

MLP5-2	<i>MLP5-2 Test Kit (-XX = SC, FC, ST connector)</i>	\$1,595.00
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Test jumpers and connector adapters are required for operation (purchased separately).



MLP1 Kit includes: OLS1 optical light source, OPM1-2C optical power meter, protective rubber boots, adapter cap, 50 and 62.5µm mandrels, user's guide, and carrying case.



MLP4-2 Kit includes: OLS1-Dual optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 µm mandrels, user's guide, and carry case.



MLP5-2 Kit includes: OLS1-Dual optical light source, OPM5-2D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software and user's guide, 50 and 62.5 µm mandrels, user's guide, and carry case.

NOYES CONTRACTOR SERIES TEST KITS

CKM-2 Fiber Optic Loss Test Kits

Multimode Test Kit with Set Reference

Combining the CSM1-2 optical power meter and CSS1-MM Dual LED light source, the CKM-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode fiber optic links.

Weighing only 0.4 lb each, both units are compact and convenient for field use. The CSS1-MM Dual LED light source, and CSM1-2 optical power meter are fully N.I.S.T. traceable.

Features

- Palm-sized, rugged, lightweight
- Certify multimode fiber links per TIA/EIA standards
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz supported Tone
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Large LCD with Backlight
- Free 50 μ m and 62.5 μ m mandrels
- N.I.S.T traceable

Test Kit Model	CKM-2	
Optical Light Source	CSS1-MM (single port)	
Wavelength (nm)	850 nm \pm 20 nm	1300 nm +40/-60 nm
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC	
Optical Power Meter	CSM1-2	
Power Range	+6 to -60 dBm	
Detector	Germanium (Ge)	
Data Storage (Items)	N/A	

CKSM-2 Fiber Optic Loss Test Kits

Multimode & Single-mode Test Kit with Set Reference

Combining the CSM1-2 optical power meter, CSS1-MM Dual LED light source, and CSS1-SM Dual LASER source, the CKSM-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode as well as single-mode fiber optic links.

Features

- Palm-sized, rugged, lightweight
- Certify multimode fiber links per TIA/EIA standards
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz supported Tone
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Large LCD with Backlight
- Free 50 μ m and 62.5 μ m mandrels
- N.I.S.T traceable

Optical Light Source	CSS1-MM (single port)	
Wavelength (nm)	850 nm \pm 20 nm	1300 nm +40/-60 nm
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC	
Optical Light Source	CSS1-SM (single port)	
Wavelength (nm)	1310 nm \pm 20 nm, 1550 nm \pm 20 nm	
Emitter type	Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	UCI base and FC, SC, ST, or LC adapter	
Optical Power Meter	CSM1-2	
Power Range	+6 to -60 dBm	
Detector type	Germanium (Ge)	
Data Storage (Items)	N/A	



Kit includes:

CSS1-MM dual optical light source, CSM1-2 optical power meter, AA batteries, 2.5 mm Universal adapter cap, 50 and 62.5 μ m mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

CKM-2	CKM-2 Test Kit	\$879.00
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Kit includes:

CSS1-MM Dual LED source, CSS1-SM Dual Laser source, CSM1-2 optical power meter, AA batteries, 2.5 mm universal adapter cap, UCI-SC connector, 50 and 62.5 μ m mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

CKSM-2	CKSM-2 Test Kit	\$1,649.00
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AFL/NOYES POWER METERS & LIGHT SOURCES

NOYES SMLP SERIES OPTICAL LOSS KITS

SMLP4-4 Test Kit

Single-mode / Multimode Test Kit with Wave ID and Set Reference

The SMLP4-4 test kit combines the OPM4-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

Features

- Certify multimode and single-mode links per TIA/EIA standards
- Wave ID - automatic wavelength identification and switching
- Dual Wave ID, single Wave ID, CW, and modulated Tone
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone
- Large LCD with Backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Free 50 μ m and 62.5 μ m mandrels
- N.I.S.T traceable

Test Kit Model	SMLP4-4			
Optical Light Source	OLS4			
Optical	MM Optical Port		SM Optical Port	
Wavelength (nm)	850 ± 30	1300 -10/+50	1310 ± 20	1550 ± 20
Emitter type	LED, Class 1 (IEC 60825 - 1)		Laser, Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	SC (FC, ST, or LC available)		SC (FC, ST, or LC available)	
Optical Power Meter	OPM4-2D			
Power Range	+6 to -60 dBm			
Detector	Germanium (Ge)			
Data Storage (Items)	N/A			



Package includes:

OLS4 optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 μ m mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

SMLP4-4-XX SM/MM Test Kit w/ Wave ID & Set Reference **\$2,595.00**
(-XX = ST, FC, SC Connector)

SMLP5-5 Test Kit

SMLP5-5 Single-Mode/Multimode Test Kit with Wave ID and Data Storage

SMLP5-5 Single-Mode/Multimode Test Kit with Wave ID, Set Reference and Data Storage The SMLP5-5 test kit combines the OPM5-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

Features

- Certify multimode and single-mode links per TIA/EIA standards
- Wave ID - automatic wavelength identification and switching
- Dual Wave ID, single Wave ID, CW, and modulated Tone (on single-mode output)
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone
- Large LCD with Backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Up to 500 test records per wavelength storage and download
- USB port for download of stored records
- Free 50 μ m and 62.5 μ m mandrels
- N.I.S.T traceable

Test Kit Model	SMLP5-5			
Optical Light Source	OLS4			
Optical	MM Optical Port		SM Optical Port	
Wavelength (nm)	850 ± 30	1300 -10/+50	1310 ± 20	1550 ± 20
Emitter type	LED, Class 1 (IEC 60825 - 1)		Laser, Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	SC (FC, ST, or LC available)		SC (FC, ST, or LC available)	
Optical Power Meter	OPM5-2D			
Power Range	+6 to -60 dBm			
Detector	Germanium (Ge)			
Data Storage (Items)	Up to 500 per wavelength			



Package includes:

OLS4 optical light source, OPM5-2D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software and user's guide, 50 and 62.5 μ m mandrels, SMLP5-5 test kit user's guide, and carry case

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

SMLP5-5-XX SM/MM Test Kit w/ Wave ID & Data Storage **\$2,995.00**
(-XX = ST, FC, SC Connector)

JDSU Optical Channel Checker

The JDSU OCC series is a handheld, battery operated Channel Checker that is ideal for field service groups tasked with the installation, maintenance, and upgrades of systems. The Channel Checker scans the system and automatically records all channels with the wavelength and the related power level. The information can be displayed in a graphical spectrum format, or in a table of results so that users can easily check the performance of each and every channel.

OCC-55 CWDM

Optical Channel Checker

Features

- Industry's smallest and lightest CWDM channel checker
- Wavelength scan range: 1260 nm to 1620 nm
- Outstanding battery lifetime ensures highest flexibility
- Graphical/tabular display mode
- Results can be saved via internal memory
- Report generation software OFS-355

ORDERING INFORMATION

OCC-55-CWDM	OCC-55 CWDM	\$6,251.70
OCC-56C-DWDM	OCC-56C DWDM	\$7,264.95

OCC-56C DWDM

Optical Channel Checker

Features

- Industry's smallest and lightest DWDM channel checker
- Supports C-band or L-band applications
- Outstanding battery lifetime ensures highest flexibility
- Graphical/tabular display mode
- Supports 50 GHz, 100 GHz, or 200 GHz channel spacing (according to ITU-T)
- Results can be saved via internal memory or external USB memory stick
- Report generation software OFS-355



JDSU OLS-6 LIGHT SOURCE

Pocket-sized Dual Wavelength

The OLS-6 offers high stability and long battery operating time in a rugged, pocket-sized casing for direct use in the field. With these instruments, no measurement errors occur due to different wavelength settings between the source and the receiver. These errors are avoided by automatic wavelength setting in power meters.

Features

- Wavelengths: 1310/1550 nm, 1550/1625 nm, 1490/1550 nm
- Modulation for easy fiber recognition.
- Pocket-sized solutions for multimode and singlemode applications.
- Auto-lambda mode allows for automatic setting of JDSU power meters to OLS-6 wavelengths.
- Battery capacity indication (%) is displayed when the OLS-6 is switched on/off as well as an automatic power-down after 20 min to save battery life.



Quick charger for NiMH or NiCd cells (accessory)

ORDERING INFORMATION

2255/02	OLS-6 - (1310/1550nm) FC/PC	\$1,495.00
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JDSU TLS-55 SMART Optical Tunable Laser Source

The TLS-55 Smart Optical tunable laser source is designed to support ROADM network channel routing applications. These handheld light sources are setting new benchmarks when it comes to size, weight and power. The tester also provides wavelength tuning in C-band or L-band on a footprint of only 195 x 95 mm at a weight of 500 g is unique in today's market.

SPECIFICATIONS

	TLS-55C	TLS-55L
Wavelength range	1528.38 nm (191.70 THz) to 1563.86 nm (196.15 THz)	1570.42 nm (186.35 THz) to 1608.76 nm (190.90 THz)
Output power range	+9 dBm to +6 dBm, adjustable	+9 dBm to +6 dBm, adjustable
Frequency accuracy	± 2.5 GHz	± 2.5 GHz

ORDERING INFORMATION

TLS-55C-CBAND	TLS-55C C-band	\$8,624.70
BN 2279/91.15	1510 nm laser option (only with TLS-55C)	
TLS-55L-LBAND	TLS-55L L-band	\$8,624.70

Features:

- Industry's first battery-operated tunable laser source for field applications.
- Supports ROADM network channel routing applications.
- Battery-operation ensures highest flexibility even for field applications.
- C-band or L-band version.
- Extra 1510 nm wavelength for OSC testing (only with TLS-55C).
- Supports 50 GHz, 100 GHz, or 200 GHz channel spacing (according to ITU-T).



PRO POWER METERS & LIGHT SOURCES

PRO[®] OPTICAL LOSS KITS

Precision Rated Optics has developed optical test kits designed for specific markets within the communications industry. With new advanced capabilities that make testing simple, PRO Test Kits are the best "go-to" kits for anyone involved in first-line optical fiber cabling installation and verification. Whether you are a fiber technician or contractor, our expertly configured kits contain all the tools necessary to quickly measure loss, power levels and inspect and clean connector end-faces. Features including both SM and MM testing capabilities along with Test Cables and SC, ST, FC and universal adapters in a semi-rigid carrying case make PRO the best fiber test kit on the market.

Features

- Three unit Semi-Rigid Carry Case
- Power Meter (Six Wavelength)
- Light Source (FC Connector)
- 400x fiber inspection scope
- Cleaning supplies



PRO-100 ORDERING INFO

PK-12D12A PRO 100 Series Test Kit (SM) **\$1,720.40**

Includes: (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-102D (SM) 1310 & 1550, (1) Power Meter PM-102A, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr

PK-12D12B PRO 100 Series Test Kit (CATV) **\$1,809.65**

Includes: (1) FC-ST Simplex MM62.5 1 MTR, (1) FC-LC Simplex MM 62.5um 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-102D (SM) 1310 & 1550, (1) Power Meter PM-102B (CATV), (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) FC-ST Simplex MM62.5 1 MTR, (1) FC-LC Simplex MM 62.5um 1 MTR, (1) Mating Sleeve SC SM, Flanged Simplex Zr

PRO-150 ORDERING INFO

PK-12D24A PRO 150 Series Test Kit (SM) **\$1,949.90**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr.

PK-13D24A PRO 150 Series Test Kit (MM) **\$1,737.40**

Includes: (1) FC-LC Simplex MM 62.5um 1 MTR, (1) FC-ST Simplex MM62.5 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PRO-200 ORDERING INFO

PK-22D24A PRO 200 Series Test Kit (SM) **\$2,289.90**

Includes: (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) Semi-rigid case 200 Series Test, (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-202D (SM) 1310 & 1550, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr.

PK-13D12A PRO 100 Series Test Kit (MM) **\$1,507.90**

Includes: (1) FC-ST Simplex MM62.5 1 MTR, (1) FC-LC Simplex MM 62.5um 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-103D (MM) 850 & 1300, (1) Power Meter PM-102A, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket

PK-12D13D12A PRO 100 Series Test Kit (Quad) VFL-1A **\$2,951.99**

Includes: (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-102A, (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) Fiber patch cord FC-SC Duplex 1 MTR, (1) Fiber Patch cord MM 62.5 FC-SC 1MTR, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket

PK-12D13D24A PRO 150 Series Test Kit (QUAD) **\$3,378.89**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PK-12D13D24AL PRO 150 Series Test Kit (QUAD) - Lite **\$3,153.44**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PK-23D24A PRO 200 Series Test Kit (MM) **\$2,119.90**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-203D (MM) 850 & 1300, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex, Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PRO 100 Series Power Meters

The PM 100 series of power meters are designed for use with an optical source for performing optical loss measurements on fiber optic cables. PM100 series are designed for low budgets. It can meet the basic demand for testing. With the smaller size and weight, it is easier to use for testing.

SPECIFICATIONS

	PM- 102A	PM- 102B
Wavelength (nm)	850/1300/1310/1490/1550/1625	
Connector	FC/PC, SC/PC, ST/PC, Universal	
Detector Type	InGaAs	
Accuracy	+ 0.35 dB + 10nW	
Resolution	0.01dB	
Linearity	+ 5%	
Measuring Range (dBm)	-60 to +3	-40 to +23
Operating Temperature	-10 to +50	
Storage Temperature	-20 to +70	
Power Supply	Li-ion Battery ; 5V AC/DC Adapter	

Standard Accessories:

- Carrying Bag
- User Manual
- Worldwide compatible AC/DC power adapter
- Test report
- Adapters: FC/PC, SC/PC, ST/PC
- Built-in 2.5mm Universal Adapter
- Li-ion Battery

Optional Accessories:

- E2000 Adapter
- LC Adapter, external FC to LC adapter
- 2.5mm Universal Adapter
- 1.25mm Universal Adapter
- SRC-1 Semi-Rigid 100 Series Case



ORDERING INFORMATION

PM-102A	Power Meter PM-102A	\$340.00
PM-102B	Power Meter PM-102B (CATV)	\$445.00

PRO 200 Series Power Meters

The PM 200 series of Power Meters are functional and refined. These exceptional units have been designed to function in laboratories, LANs, WANs and CATV as well as long distance optical networks. The PM 200 series together with our Stabilized Laser Sources, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Computer supported:

Memory capacity of 1000 data items; enables data transfer to a PC via USB connection. With the software, the data sheet can be saved as excel or plain text.

Referencing functions:

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

Auto-Wavelength Recognition:

The LS-202D and LS-203D units can transmit with a wavelength identification digital encrypted protocol, enabling the PM2 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

SPECIFICATIONS

	PM-202A	PM-204A	PM-202B	PM-204B
Calibrated Wavelength	850/1300/1310 /1490/1550/1625 (nm)			
Detector Type	InGaAs			
Accuracy	± 5% ± 1nW		± 5% ± 10nW	
Resolution	0.01dB@-60 to +10dBm; 0.1dB@-70 to -60dBm		0.01dB@-40 to +26dBm; 0.1dB@-50 to -40dBm	
Linearity	± 5%			
Measuring Range	-70 to +10 (dBm)		-50 to +26 (dBm)	
Tone Detection (Hz)	270,1K,2K			
Operating Temperature	-10 °C to +50 °C			
Storage Temperature	-20 °C to +70 °C			
Power Supply	2pcs * Ni-MH AA(2500mAh); 6V AC/DC adapter			
Dimension (mm)	160L x 76W x 45H			
Net Weight	270g+			

Standard Accessories:

FC/PC,SC/PC,ST/PC interchangeable connector, Batteries, Built-in 2.5mm Universal Adapter, manual, Carrying Bag, Software (CD), USB cable, Worldwide compatible AC/DC power adapter, and test report.

Optional Accessories:

E2000 Adapter, External LC Adapter, 1.25mm Universal Adapter, SRC-1 Semi-Rigid 100 Series Case

ORDERING INFORMATION

PM-202A	Power Meter PM-202A	\$550.00
PM-202B	Power Meter PM-202B	\$610.00
PM-204A	Power Meter PM-204A (w/ data storage)	\$610.00
PM-204B	Power Meter PM-204B (CATV) - (w/ data storage)	\$650.00



PRO POWER METERS & LIGHT SOURCES

PRO 100 Series

Light Sources

The LS 100 series offers excellent stability and portability for accurate fiber optic testing. The single output port provides stable laser power at dual wavelengths. This compact unit operates in either continuous wave (CW) mode or modulated mode. A low-battery indicator reminds the user to recharge the battery and the unit's light weight and smaller size delivers outstanding convenience usually only associated with higher-priced units.

SPECIFICATIONS

	LS-102D	LS-103D
Output wavelength (nm)	1310 & 1550	850 & 1300
Emitter Type	LD	
Connector	FC/PC	
Output stability	Short Term (15 minutes): <0.1dB Long Term (5 Hours or above): <0.2dB	
Central Wavelength	1310 ± 20nm & 1550 ± 20nm	850 ± 10nm & 1300 ± 20nm
Spectral Width	5 nm	
Output Frequency (Hz)	270, 1K, 2K	
Output Power	- 5 dBm	
Operating Temperature	-10 °C to +50 °C	
Storage Temperature	-20 °C to +70 °C	
Power supply	Li-ion Battery ; 5V AC/DC Adapter	
Dimension (mm)	115L x 65W x 30H	
Weight	140 g	

Standard Accessories:

- FC/PC connector (SC/PC, ST/PC, FC/APC, SC/APC Optional)
- Carrying Bag
- User Manual
- AC/DC power adaptor
- Test report

Optional adapters:

FC/PC male -SC/APC female Adapter, FC/PC male -FC/APC female Adapter, FC/PC male -MU/PC female Adapter, FC/PC male -ST/APC female Adapter, FC/PC male -LC/PC female Adapter, Others connector adaptors



ORDERING INFORMATION

LS-102D	LS-102D (SM) Light Source 1310 & 1550	\$995.00
LS-103D	LS-103D (MM) Light Source 850 & 1300	\$745.00

PRO 200 Series

Light Sources

The LS 200 series offer excellent stability and portability for accurate fiber optic testing. Single output port provides stable laser power at dual wavelengths. The compact unit operates in either continuous wave (CW) mode or modulated mode. The output power is adjustable through up & down keystroke. A low battery indicator reminds the user of recharging the battery.

Auto-Wavelength Recognition:

LS2 units can transmit with a wavelength-identification digital encrypted protocol, enabling the PM2 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

SPECIFICATIONS

	LS-202D	LS-203D
Output wavelength	1310 & 1550 nm	850 & 1300 nm
Emitter Type	LD	
Connector	FC/PC, SC/PC, ST/PC interchangeable connectors (APC is available at the time of ordering)	
Output stability	Short Term (15 min.): < ±0.05dB @ 1310,1550nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm	Short Term (15 min.): < ±0.1dB @ 850, 1300nm Long Term (8 Hours): < ±0.2dB @ 850, 1300nm
Central Wavelength	1310±20 & 1550±20 nm	850±10 & 1300±20 nm
Spectral Width	5 nm	
Output Frequency (Hz)	270, 1000, 2000	
Output Power	-5 dBm	
Adjustable Range	±3dB, 0.1dB/step	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-20°C to 70°C	
Power supply	2pcs * Ni-MH AA(2500mAh)	
Dimension (mm)	160L * 76W * 45H	
Weight	270g	

Features:

- Easy-to-use, straight forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- ±3dB Adjustable by the user
- Rechargeable battery inside
- 850nm & 1300nm available for multimode testing
- Three-year warranty and recommended calibration interval

Standard Accessories:

FC/PC, SC/PC, ST/PC interchangeable connector, Carrying Bag, User Manual, Worldwide compatible AC/DC power adaptor, Battery, Test report

Optional Accessories:

FC/APC Connector, SC/APC Connector, Aluminium Carrying Case

ORDERING INFORMATION

LS-202D	LS-202D Laser Source (SM) 1310/1550	\$1,395.00
LS-203D	LS-203D Laser Source (MM) 850/1300	\$1,195.00



PRO 200 Series Quad & Tri Light Source

The LS 200 series offer excellent stability and portability for accurate fiber optic testing. Single output port provides stable laser power at dual wavelengths. The compact unit operates in either continuous wave (CW) mode or modulated mode. The output power is adjustable through up & down keystroke. A low battery indicator reminds the user of recharging the battery

Auto-Wavelength Recognition

LS 200 units can transmit with a wavelength-identification digital encrypted protocol, enabling the PM-204 Power Meters to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

Features:

- Easy-to-use, straight forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- Rechargeable batteries included
- Three-year warranty and recommended calibration interval

Standard Accessories:

- FC/PC, SC/PC, ST/PC interchangeable connector
- Carrying Bag
- User Manual
- Worldwide compatible AC/DC power adaptor
- Battery
- Test report

Optional Accessories:

- FC/APC Connector
- SC/APC Connector



LS-201T / LS-202T Light Source

The LS-200T series has been specifically designed for FTTx testing applications where the 1490nm wavelength is utilized.

Features:

- $\pm 3\text{dB}$ Adjustable by the user

ORDERING INFORMATION

LS-201Q	LS-201Q Light Source (850/1300/1310/1550)	\$1,895.00
LS-202X	LS-202X Light Source (1310/1490/1550/1625)	\$2,650.00
LS-201T	LS-201T Light Source (1310/ 1490/ 1550)	\$1,895.00
LS-202T	LS-202T Light Source (1310/ 1550/ 1625)	\$1,895.00

SPECIFICATIONS

	LS-201Q	LS-202X	LS-201T	LS-202T
Output wavelength (nm)	850/1300/1310/1550	1310/1490/1550/1625	1310/ 1490/ 1550	1310/ 1550/ 1625
Emitter Type	Laser Diode			
Connector	FC/PC, SC/PC, ST/PC interchangeable connectors (APC is available at the time of ordering)			
Output stability	Short Term (15 min.): < ±0.05dB @ 1310,1550nm and ±0.1dB@850 & 1300 Long Term (8 Hours): < ±0.1dB @ 1310,1550nm and ±0.2dB@850 & 1300		Short Term (15 min.): < ±0.05dB @ 1310,1550nm; ±0.1dB @ 1625nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm; ±0.2dB @ 1625nm	
Central Wavelength	± 20nm		1310±20 & 1490±20 & 1550±20	
Spectral Width	5 nm	5 nm	5 nm	
Output Frequency (Hz)	270, 1000, 2000			
Output Power	-5 dBm			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-20°C to 70°C			
Power supply	2pcs * Ni-MH AA(2500mAh)			
Dimension (mm)	160L * 76W * 45H			
Weight	270g			

PRO TEST EQUIPMENT

PRO[®] OLM-202A / 202B**Optical Loss Multimeter**

The OLM series Multimeter combines a power meter with a 3- wavelength laser source, for optical fiber network installation and maintenance. The units large data storage capacity makes it very convenient for transferring field test data to a PC through a USB connection interface.

Standard Accessories:

User Manual, Rechargeable Batteries, Carrying Soft Bag, Interchangeable FC/SC/ST connectors, worldwide compatible AC /DC Power Adaptor, PC software, USB Connecting Cable

Features:

- Auto wavelength recognition
- Data storage up to 999 items
- USB interface and PC associated software available

**Optional Accessories:**

LC/E2000 connectors for power meter port, Aluminium Carrying Box, various connector adaptors

ORDERING INFORMATION

OLM-202A	<i>OLM-202A Optical Loss Multimeter</i>	\$2,975.00
OLM-202B	<i>OLM-202B Optical Loss Multimeter</i>	\$2,975.00

SPECIFICATIONS

		OLM-202A	OLM-202B
Power Meter	Calibration wavelength	850/1300/1310/1490/1550/1625 (nm)	
	Connector	Interchangeable FC/SC/ST for PC/APC	
	Data storage(items)	999	
	Ref. Value	Yes	
	Display Units	dB / dBm / mW /uW	
	Display precision(dB)	0.01	
	Accuracy	± 5% ± 1nW	
	Wavelength Recognition	1310/1490/1550(input power> -40dBm)	
	Tone Detection	270 Hz / 1KHz / 2KHz(input power> -40dBm)	
Laser Source	Measuring Range(dBm)	-70 to +10	-50 to +26
	Output wavelength	1310/1490/1550 (nm)	
	Connector	Interchangeable FC/SC/ST for PC	
	Modulation frequencies	270/1K/2K Hz	
	Output Power	-5dBm ± 0.5dB	
	Stability Long-term(8h)	± 0.1dB@1310/1550nm; ± 0.2dB@1490nm	
	Stability Short-term (15min)	± 0.05dB@1310/1550nm ; ± 0.1dB@1490nm	
	Wavelength Recognizing Code	Yes	
General Specification	Auto Power off	Yes	
	Power Supply	2pcs *NiHM 1.2V, 2000mAh; AC/DC Adapter	
	PC interface	USB	
	Battery Life	> 100 Hours (laser off)	
	Storage Temperature	-20 °C~+70 °C	
	Operating Temperature	-10 °C~+50 °C	
	Relative Humidity	<90% (Non-condensing)	
	Dimension (mm)	168L x 76W x 43H	
	Weight (Gram)	310	

PRO PON-301

PON Meter

Precision Rated Optic's advanced PON-specific power meter, the PON-301, is the flagship of PRO's test instruments specifically intended for FTTH and FTTP systems. The PON-301 is the ideal tool for FTTH/FTTP service activation and field application troubleshooting.

SPECIFICATIONS

	FC/PC	SC/PC	ST/PC
Measurement Range	1310nm(Burst Mode) -25dBm~+5.5dBm	1490nm -30dBm~+15dBm	1550nm -40dBm~+20dBm
Spectral Passband	131 0nm 1260nm~1360nm	1490nm 1480nm~1550nm	1550nm 1539nm~1565nm
Insertion Loss	1.5dB		
Accuracy	±0.5dB		
Linearity	±0.2dB		
Display	2.8 inch TFT LCD		
Refresh Rate of Display	2.5Hz		
Threshold	10 sets(configured via PC-based software)		
Number of Ports	2(1 for ONU,1 for OLT&Video)		
Operating Temperature	14 to 122°F (-10 to +50°C)		
Relative Humidity	0%~95%,non-condensing		
Power Supply	1.2V*4pcs Ni-MH AA;12V AC/DC Adapter		
Battery life	>20 hours		
Dimension	7.5 x 4.1 x 2.2 in (190 x 105 x 55 mm)		
Net Weight	1.5 lbs (700g)		

Features:

- Pass-through connection for ONT signal measurement
- Simultaneous measurement of all PON signals
- Filtered detectors for individual measurements of each wavelength
- Upstream burst detection at 1310 nm



Standard Accessories:

FC/PC,SC/PC,ST/PC interchangeable connector, manual, travel bag, software (CD), USB cable, AC/DC adapter, and test report.

ORDERING INFORMATION

PON-301	PON - 301	\$1,495.00
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PRO OVA-2015 / 2025

Optical Attenuator

The OVA2 digital variable optical attenuator is a compact, portable instrument widely used in fiber link certification and routine maintenance as well as in lab environment.

SPECIFICATIONS

	OVA-2015	OVA-2025
Attenuation Range	0~80dB	0~60dB
Fiber Type	SMF 9/125µm	
Calibrated Wavelengths	1310nm/1550nm	
Linearity	≤0.3dB	
Accuracy	0.2dB @3~30dB 1.0dB @ 30~60dB 2.0dB@60~80 dB	0.2dB @3~20dB 0.5dB @ 20~50dB 1.0dB@50~60 dB
Insert ion Loss	<3dB	
Return Loss	>50dB(PC)	
Max Input Power	24dBm	
Power Supply	1.2 V Ni-MH Battery * 2pcs	
Connector	Interchangeable FC/PC, SC/PC, ST/PC connectors. (FC/APC, SC/APC are available at time of ordering)	
Operating temperature	-10°C to 50°C	
Storage temperature	-20°C to 60°C	
Relative humidity	0%~95% (non-condensing)	
Dimension	160L*76W*45H(mm)	
Weight	360g(Battery included)	

Application:

- Maintenance of Telecom Systems
- Maintenance of CATV Systems
- Fiber Optic Transmission System & Test Lab
- Various other Trouble Shooting Applications

Standard Accessories:

FC/PC,SC/PC,ST/PC interchangeable connectors, Carrying Case, User Manual, Rechargeable Battery, Worldwide Compatible AC/DC Adaptor/Charger

Optional Accessories:

Various connector adaptors



ORDERING INFORMATION

OVA-2015	Optical Attenuator	\$3,795.00
OVA-2025	Optical Attenuator	\$3,395.00

JDSU COPPER / NETWORK TESTERS

JDSU SmartClass ADSL

ADSL Service Installation Tester

The JDSU SmartClass ADSL is the perfect tool for the field engineer installing and maintaining ADSL services. The simple user interface, including graphical display and telephone style keypad, allows field engineers to quickly configure and verify performance of ADSL service. The ADSL layer measurements allow the field engineer to verify key parameters that will ensure the long term reliability of the customer's circuit. The built in data layer functionality allows the field engineer to verify that the end customers can achieve full authentication and access internet IP addresses. The built-in 10M Ethernet ensures that the service can be tested, not only at the DSLAM, MDF, cross-box, or NID (customer premise), but also at the customers PC interface.

ORDERING INFORMATION

SC-DSLA	<i>SmartClass Silver ADSL2+ Annex A Package</i>	\$1,795.00
SC-DSLB	<i>SmartClass Silver ADSL2+ Annex B Package</i>	\$1,795.00
SC-DSLA-CU	<i>SmartClass Gold ADSL2+ Annex A & Cu Package</i>	\$2,195.00
SC-DSLB-CU	<i>SmartClass Gold ADSL2+ Annex B & Cu Package</i>	\$2,195.00



JDSU Validator-NT™

All-in-One Network Management Tool

Validator-NT's patented method of uploading and downloading information about cable tests and network configuration will help you to gather the necessary information to manage your network easily, while documenting changes, upgrades or new configurations. Clear, fast Speed and Performance Certification up to 1 Gigabit combines with powerful planning software and active network capabilities to give you the complete tool for installing, managing and fine-tuning any Ethernet network.

Features:

- Certifies CAT5, CAT5E and CAT6 Ethernet cables to be IEEE compliant to 1 gigabit speed for all Ethernet systems
- Tests to TIA 568/570 interconnect standards
- Tests coax, telephone, audio and security cables
- Qualifies VoIP lines
- Includes powerful Plan-Um™ Cabling Project Management software
- Creates and prints job reports and cable labels
- Active network capabilities for test, link and identification
- Certify, identify, configure and document your network

Standard Accessories:

Validator-NT Main Unit and Smart Remote, 2 lithium-ion rechargeable long-life batteries, 2 AC adapter/charger units, 4 adapter cable assemblies, Set of 8 wiremap remotes, USB cable assembly, Compact flash card, Plan-Um™ design layout software, Deluxe carrying case with cushioned sides.

No other tester/certifier
does so much, so easily,
and so economically.



ORDERING INFORMATION

NT955	<i>Validator-NT™ Ethernet Speed Certifier</i>	\$1,622.25
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JDSU Validator™

Network/Cabling LAN Certifier NT950

Designed specifically for Ethernet systems, the Validator™ NT950 measures and presents digital speed and performance results on CAT5, CAT5e, and CAT6 cables to ensure the cabling will do the job it's rated to do. Included software stores and organizes data into reports for billing, and archives network system information for later use in modifying or upgrading previously-installed systems.

Key Features

- Shows Pass/Fail, cable length and speed rating
- Create custom floor plans or import existing AutoCAD/Visio files
- Show specific ports for network, telephone and cable
- Print end-of-job report for billing purposes
- Print/email and save layouts for approval

Kit includes:

Validator™ main unit and smart remote, 2 lithium ion rechargeable batteries, 2 AC adapter/charger units, 4 adapter cable assemblies, USB cable assembly, Compact flash card, Plan-Um™ design layout software, Deluxe carrying case with cushioned sides.



ORDERING INFORMATION

NT950	Validator™ Ethernet Speed Certifier Kit	\$1,330.00
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JDSU LanRoamerPRO™

Tester/Analyzer TP600

This high-performance length measurement CAT 5/6 tester analyzes wiring faults and configurations on data cable.

Kit includes:

LanRoamerPRO™, Remote #1, 12" (30.48 cm) cable assembly, RJ45 to alligator clip set TP40, 12" (30.48 cm) cable assembly, unshielded RJ45 connectors, 2 pieces TP56, Laminated quick reference card, Wire configuration sticker, Pouch PC150.



ORDERING INFORMATION

TP600	LanRoamerPRO™ Cable Tester/Analyzer + Remote	\$185.00
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JDSU Net-Rite™

Ethernet Network Tester

The Net-Rite™ TP250, a continuity and wiremap tester for Ethernet cable, tests and troubleshoots faults and miswires. This continuity/wiremap tester detects and troubleshoots faults and miswires in Ethernet cable up to 1000 ft (304.8 m) long. Its removable remote enables testing longer cable runs terminated in different areas.

Applications: Tests Ethernet cable for opens, shorts, split pairs, miswires and reversals.



ORDERING INFORMATION

TP250	Net-Rite™ Continuity and Wiremap Tester	\$55.38
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JDSU Testifier™ TP350

Cable Tester and Verifier

The new Test-Um TP350 Testifier produces the most accurate and easy-to-understand results of any cable tester/verifier on the market. Its large LCD display is easy to read--it shows a clear picture of a wired cable; data, coax, telephone, security/alarm, or unterminated site wire.

A powerful, precise and professional cable tester/verifier for all wired cable runs, including: network, coax, telephone, audio, security.

CATV, telephone systems, audio cable, security/alarm wiring, and network cabling can all be tested and located using the Resi-Tester™ (TP350) and optional room identifier sets. Multiple input ports and included adapter cables mean any wire can be attached and tested!

Features

- LCD display
- Easy-to-read results
- Built-in remote
- Auto-off
- Unbreakable case

Kit includes:

Testifier™, #1 replacement remote TP309, #1 coax remote identifier TP65, 12" (30.48 cm) cable assembly, RJ45 to alligator clip set TP40, 7.5" (19.05 cm) cable assembly with no-fault RJ12 connectors for RJ11 or RJ45 jacks TP20.



ORDERING INFORMATION

TP350	Testifier™ Cable Tester	\$100.00
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MICROSCOPES & INSPECTION PROBES

JDSU

Video Inspection Probe Solution

From next-generation network installation to managing legacy systems, there are fundamental tools that every fiber optic technician uses. From optical power meters and visual fault locators to video microscope systems and cleaning materials, these tools are essential to anyone who handles fiber. Achieving optimized performance requires systematic and proactive methods that many technicians can find troublesome and confusing. The JDSU Essential Fiber Toolkits overcome barriers by integrating the essential tools together into a seamless system that is fast, portable, and easy.

FIT-S105-PRO

Fiber Inspection Probe

- Dual-magnification (200/400X) FBP video probe microscope
- Handheld inspect and test display system with integrated power meter and 400X PCM
- Interchangeable FBPT inspection tips (2):
- hhSC-PC bulkhead
- hhLC-PC bulkhead
- FMAE adapters (2) for PCM:
- hhUniversal 2.5 mm PC patch cord
- hhUniversal 1.25 mm PC patch cord
- Plastic case for inspection tips and adapters
- Carrying case



ORDERING INFORMATION

FIT-S105-PRO	JDSU Fiber Inspection & Test Kit	\$3,307.50
FIT-S105-C	KIT HP3-60-P4, P5, TIPS, CLEANING TOOLS	\$2,940.00

Kit Includes: Handheld Display with integrated Power Meter & 400X Patch Cord Module. Includes 200/400X FBP Probe Microscope, FBPT Tips (SC, LC), FMAE Adapters, (U25M, U12M), Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), Case & power supply - US

FIT-S105	KIT HP3-60-P4 w/ FBP 200/400x probe	\$2,625.00
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Kit Includes: Handheld Display with integrated Power Meter & 400X Patch Cord Module. Includes 200/400X FBP Probe Microscope, FBPT Tips (SC, LC), FMAE Adapters (U25M, U12M), Case & power supply - US

FBP-S003

Fiber Inspection Probe

The FBP-S003 is a Dual-magnification (200/400X) FBP probe microscope hardwired to HD1 display with 3.5-in TFT LCD; interchangeable FBPT inspection tips (4) in hard case: SC and LC bulkhead tips; Universal 2.5 mm and 1.25 mm patch cord tips; hard-sided carrying case.



ORDERING INFORMATION

FBP-S003	DUAL- Magnification 200/400x Probe Kit	\$2,520.00
FBP-S002	Probe Kit: 400X FBP Probe, Hardwired	\$2,310.00

Kit Includes: 200x FBP-P1-400 probe hardwired to an FBP-HD1 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and hard case.

FBP-S001	Probe Kit: 200X FBP Probe, Hardwired	\$2,310.00
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Kit Includes: 200x FBP-P1 probe hardwired to an FBP-HD1 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and hard case.

OLP-82

SmartClass Inspection Kit

The new OLP-82 from JDSU is the first handheld tool to combine pass/fail fiber inspection and optical power measurement (OPM) into one solution. As part of the new JDSU SmartClass Fiber Family, the OLP-82 helps service providers guarantee a lifetime of system performance from their network connectivity and gives contractors an essential tool for delivering best-in-class reliable networks to their customer



ORDERING INFORMATION

FBP-SD4i	HD4/1P5000i/Tip Case Inspection Kit	\$2,700.00
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Kit Includes: OLP-82, Soft Bag, Power Supply, FiberChekPRO Software, USB Cable, Manual, Dry Batteries (8x), P5000i Digital Inspection Microscope, Bulkhead: SC and LC, Patch Cord: 2.5 and 1.25 mm, 1.25 mm OPM Adapter OLP-82/82P

FIT-8201-PRO	OLP-82 SmartClass Inspection Kit	\$3,750.00
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Kit Includes: OLP-82, Soft Bag, Power Supply, FiberChekPRO Software, USB Cable, Manual, Dry Batteries (8x), P5000i Digital Inspection Microscope, Bulkhead: SC and LC, Patch Cord: 2.5 and 1.25 mm, 1.25 mm OPM Adapter, Cleaning Materials for 2.5 and 1.25 mm, Hands-Free Carrier, Rechargeable Battery, FFL-050 Visual Fault Locator with 2.5 and 1.25 mm Adapter

FIT-82P01-PRO	OLP-82 SmartClass Inspection Kit w/Power Meter	\$4,250.00
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FBP-SM05

Fiber Inspection Probe

The HD3-P display further expands the value of the popular HD3 series by integrating a PATCHCORD MICROSCOPE (PCM) into the compact design. By combining the power of two microscopes into one system, the HD3-P enables you to inspect both the "female" (bulkhead) and "male" (patch cord) sides of a fiber interconnect at the same time. The patch cord scope accepts our FMAE Series adapters, but is configurable to accept FMA Series adapters with the use of a coupler



ORDERING INFORMATION

FBP-SM05-C	Inspection and Cleaning Kit- 200/400X	\$2,572.50
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Kit Includes: FBP series Dual Magnification (200/400X) Probe Microscope with an integrated HD3-P4 display (includes a power supply/charger with US plug). Also included are 2 FBPT series inspection tips (SC & LC) for bulkhead inspection and 2 FMAE adapters (Univ. 2.5mm and Univ 1.25mm) for inspecting patch cords.

FBP-SM05	Inspection Kit - 200/400X FBP W/HD3-P4	\$2,257.50
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Kit Includes: FBP series Dual Magnification (200/400X) Probe Microscope with an integrated HD3-P4 display (includes a power supply/charger with US plug). Also included are 2 FBPT series inspection tips (SC & LC) for bulkhead inspection and 2 FMAE adapters (Univ. 2.5mm and Univ 1.25mm) for inspecting patch cords. Kit also includes a carrying case which holds all the components of this kit.

FBP-SM03

Fiber Inspection Probe

The FBP-SM03 features our industry leading 200/400x FBP-P5 probe hardwired to an FBP-HD3 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and case.



ORDERING INFORMATION

FBP-SM03-C Inspection & Cleaning Kit 200X/400X FB **\$2,205.00**

Kit Includes: 200X/400X FBP Probe, HD3 Display, FBPT tips SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), carrying case & power supply/charger

FBP-SM03 Probe Kit: 200/400X FBP Probe, Hardwired **\$1,890.00**

Kit Includes: 200/400X FBP Probe, Hardwired to HD3 Display, Case, Tips: SC, LC, U25, U12

FBP-SD101

Inspection Kit w/P5000i

The JDSU FBP-SD101 P5000i Dual-Magnification Digital Analysis Probe inspects and certifies the end faces of fiber connectors. Quick and easy go/no-go analysis of the end face condition. This kit includes FiberCheckPRO software for use with a PC or laptop. You can also connect the P5000i directly to your JDSU TBERD 2000, 4000, 6000, or 6000A, or HST-3000e (current firmware required). The JDSU FBP-SD101 includes SC & LC bulkhead inspection tips, universal 2.5mm & 1.25mm patchcord tips and a case.



ORDERING INFORMATION

FBP-SD101 FBP-SD101 Probe Kit w/P5000i **\$2,400.00**

FWV Series

Bench Top Inspect System w/Monitor

The FV and FWV-series microscopes utilize coaxial illumination to provide the user with a critical view of fine scratches, making them the ideal choice for factory postpolish, component assembly, and QC inspection of fiber connectors. Both systems feature a focusing head that accepts an extensive selection of FMA-series adapters. The FWV-series includes a stand alone 10.5-inch LCD flat screen display integrated microscope. These units also include a 2.5 mm universal adapter for viewing the most common types of connectors. Additional adapters can be purchased separately.

FV-series workstations are bench-top video microscopes designed for inspecting patch cords and ferrules after polishing. They are available in several magnifications, but in general, our 400X models are used after polishing to inspect for fine defects incurred during the polishing or cleaning process. The 200X models are most commonly used to inspect for cleanliness during system assembly prior to mating connectors. JDSU's FV systems have become the industry standard because they deliver crystal-clear imaging of fine defects



ORDERING INFORMATION

FWV-409 Bench Top Inspect System w/Monitor **\$1,197.45**

JDSU FBPT Probe Tips

FBPT-U25M	Universal 2.5mm Patch Cord Tip	\$78.75
FBPT-U25MA	Universal 2.5mm Patch Cord Tip, APC Polish	\$90.00
FBPT-U12M	Universal 1.25mm Patch Cord Tip	\$78.75
FBPT-U12MA-SF	Universal 1.25mm Patch Cord Tip, APC Polish	\$140.00
FBPT-SC	SC Bulkhead Tip	\$56.25
FBPT-SC-L	SC Bulkhead Tip, Long Reach	\$315.00
FBPT-SC-APC	SC-APC Bulkhead Tip	\$112.50
FBPT-SC-A6	SC Bulkhead Tip, Ang. 60 Deg.	\$475.00
FBPT-ST	ST Bulkhead Tip	\$78.75
FBPT-ST-A6	ST Bulkhead Tip, Ang. 60 Deg.	\$525.00
FBPT-LC-L	LC Bulkhead Tip, Long Reach	\$315.00
FBPT-LC-APC	LC-APC Bulkhead Tip	\$472.50
FBPT-LC	LC (LX5 Connectors) Bulkhead Tip	\$78.75

JDSU FBPT Probe Tips

FBPT-FC	FC Bulkhead Tip	\$73.50
FBPT-FC-A6	FC Bulkhead Tip, Ang. 60 Deg.	\$525.00
FBPT-FC-APC	FC-APC Bulkhead Tip	\$157.50
FBPT-FCA-1	FC-APC Bulkhead Tip, No Collar	\$160.00
FBPT-E2000	E2000 Bulkhead Tip, APC or PC	\$262.50
FBPT-SMA	SMA Bulkhead Tip	\$265.00
FBPT-MU	MU Bulkhead Tip	\$125.00
FBPT-MTRJ-1	MTRJ (simple type) Bulkhead Tip	\$147.00
FBPT-MTP-L	MTP/MPO PC Bulkhead Tip	\$761.25
FBPT-MTPA-L	MTP/MPO APC Bulkhead Tip	\$1,050.00
FBPT-MTPA	MTP-APC X-AXIS PAN KNOB FOR FBP	\$971.25
FBPT-UFMA	Westover Universal Flare Adapter	\$73.50

JDSU FBET Probe Tips

FBET-U25M	Tip, Univ. 2.5mm Patch Cord, for FBE	\$21.00
FBET-U25MA	Tip, Univ. 2.5mm Patch Cord, APC, for FBE	\$32.00
FBET-U12M	Tip, Univ. 1.25mm Patch Cord, for FBE	\$21.00
FBET-SC	Tip, SC Bulkhead, for FBE	\$21.00
FBET-SCA	Tip, SC/APC Bulkhead, for FBE	\$32.00
FBET-LC	Tip, LC Bulkhead, for FBE	\$32.00
FBET-FC	Tip, FC Bulkhead for FBE	\$21.00
FBET-ST	Tip, ST Bulkhead, for FBE	\$21.00

MICROSCOPES & INSPECTION PROBES

EXFO Inspection Probes

EXFO FIP-400S / FIP-400D

Fiber Inspection Probes

Thanks to EXFO's FIP-400 Fiber Inspection Probe, checking connectors and other fiber terminations for polish quality and cleanliness has never been easier. Benefit from the best optical resolution in the industry and see scratches and dirt particles as small as 1 um.



EXFO Probes

FP4S	FIP-400-P-SINGLE: 400x Fiber Inspection Probe	\$1,225.00
FP4D	FIP-400-P-DUAL: 200x/400x FIP	\$1,595.00
FIP-400-D	Handheld display with power supply and rechargeable battery	\$850.00
FIP-400-DSINGLE	400x Video Inspection Probe KIT with handheld display	\$1,950.00
FIP-400-D-DUAL	200x/400x Video Inspection Probe KIT with handheld display	\$2,325.00
FIP-400-USB2SIN	400x Video Inspection Probe KIT w/ USB2 converter	\$1,495.00
FIP-400-USB2DUA	200x/400x Video Inspection Probe KIT w/ USB2 converter	\$2,245.00
FIP-400-USB2	USB 2.0 Converter Module	\$375.00
FIP-400-USB1SIN	400x Video Inspection Probe KIT w/ USB1 converter	\$1,720.00
FIP-400-USB1DUA	200x/400x Video Inspection Probe KIT w/ USB1.1 converter	\$1,895.00
FIP-400-USB1	USB 1.1 Converter Module	\$375.00



PRO[®] VIP-Kit 1 / Kit 2 Video Inspection Probe

The VIP-35 Inspection Probe is designed to provide customers the ability to troubleshoot network performance issues (most commonly caused by dirty connectors) by inspecting the endface of a connector for debris. The VIP-35 kit includes a 400x power probe and a 3.5 inch display for easy viewing of small particles which may exist on the connector. With the included probe tips, the user has the ability to check the quality of both the cable and bulkhead connectors.

All Kits Include:

Hard Carrying Case
400X Probe and Monitor
AC Charger

Kit 1 Adapters:

FC/SC/ST Bulkhead Adapter
2.5mm Universal Adapter

Kit 2 Adapters:

FC/SC/ST Bulkhead Adapter
LC Bulkhead Adapter
2.5mm Universal Adapter
1.2mm Universal Adapter



SPECIFICATIONS

	VIP- 35 Kit 1	VIP- 35 Kit 2
Magnification	400X	
Screen size	3.5 in	
Dimensions	5.51 x 3.03 x 1.53 in	
Weight	15.7 oz	
Screen type	TFT Active Matrix	
Video output	PAL / NTSC	
Power	12V DC Built-in Li-on Rechargeable Battery	
Input Power	110-240V AC Adapter	
Power supply	AC or DC Operation	
Battery	3 Hours	
Charging	3 Hours	
Operating Temperature	+ 4 °F to 122 °F (-10 °C to +50 °C)	
Connectors Included	Universal Patch Cord Tip	
Adapters Included	2.5mm / 1.25mm / 2.5mm (bulkhead) / LC (bulkhead)	
Data Storage	No (Coming soon)	
Data Download	No (Coming soon)	

ORDERING INFORMATION

PRO-VIP-35-K1	3.5 in Video Inspection Kit - 2 Tips	\$995.00
PRO-VIP-35-K2	3.5 in Video Inspection Kit - 4 Tips	\$1,200.00

PRO[®] Hand-Held Microscopes

The Mini Hand-Held Microscope is available in 200x and/or 400x magnification. White LED lighting is powered by two "3V" Lithium cell batteries.



ORDERING INFORMATION

FOM-HM-C200S	PRO 200X Microscope	\$179.00
FOM-HM-C400S	PRO 400X Microscope	\$199.00

JDSU Hand-Held Microscopes

The FM-L200 is a ruggedized field scope with magnification of 200x and oblique illumination. It comes with a universal 2.5mm adapter (ST, SC, and FC connectors).



ORDERING INFORMATION

FM-C400	Hand Held Microscope, 400X, Coaxial	\$252.00
FM-DI200	Westover 200x Dual Illumination Scope	\$252.00

NOYES VS300 View Safe Video Microscope

The VS300 is a 400x video microscope with no direct optical path from the connector under inspection to the user.

Each scope includes a 2.5 mm Universal adapter cap and neck strap and carry case.

The Noyes VS300 models use thread-on adapter caps



ORDERING INFORMATION

VS-300	Noyes VS300 View Safe Video Microscope	\$835.00
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NOYES Fiber Optic Inspection Scope

The Noyes OFS-300 with universal adapter (ST, FC & SC) is a versatile instrument used to inspect fiber optic connectors. Recommended for both multimode and singlemode applications. Operates on 2 AA alkaline batteries. Call for additional adapters.



ORDERING INFORMATION

OFS-300-200C	Noyes 200X Scope w/ 2.5mm adapter	\$439.00
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VISUAL FAULT LOCATORS

NOYES HiLite & VFI2

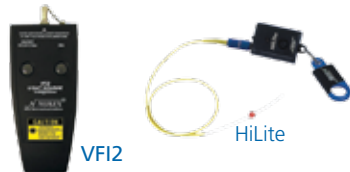
Visual Fault Identifiers

The HiLite and VFI 2 are compact but powerful visible red laser sources designed to troubleshoot faults on fiber optic cables. Light generated by these units will escape from sharp bends and breaks in jacketed or bare fibers, as well as poorly mated connectors. They can identify faults in fiber optic jumper cables, distribution frames, patch panels, and splice trays.

The HiLite and VFI 2 are an excellent complement to an OTDR because they can locate faults inside the OTDR's dead-zone. Other applications include end-to-end continuity checks, identifying connectors in patch panels and fibers during splicing operations. The universal connector interface provides fast operation with many connector styles without changing an adapter.

Features

- 650 nm visible red laser source
- Compact size
- High power (1 mW)
- Universal connector interface for quick connection



ORDERING INFORMATION

VFI2-00-0900PR	VFI 2 unit, instruction card, and carrying case.	\$379.00
VFI3-00-0900PR	Noyes HiLite VFL 2.5mm Adapter	\$279.00

PRO VFL-1A

Visual Fault Locator

The VFL-1A is a compact but powerful visible light source with three (3) variable output power levels which include 0 / 3 / 8 dBm. The VFL-1A can be used to locate sharp bends and breaks in jacketed or bare fiber within 10km. It can also be used to identify connectors in patch panels or identify fibers during splicing operations.

Features:

- 3 adjustable output powers 0/3/8 dBm
- Back-light for LCD display
- Auto Shut-off



Standard Accessories:

(SC/PC, ST/PC, FC/APC), Carrying Bag, User Manual, AC/DC power adaptor, Test report

SPECIFICATIONS

	VFL-1A
Wavelength	650 ± 10nm
Emitter type	LD
Connector type	FC/ST/SC
Modulated Frequency	2 Hz
Output Power	0, 3, 8 dBm (adjustable)
Power Supply	AC/DC adapter & Li-ion Battery
Battery Life	20 hours (continuous operation)
Operating Temperature	14 to 122 °F (-10°C to +50°C)
Storage Temperature	-14 to 158 °F (-20°C to +70°C)
-20°C to +70°C	0 ~ 95%
Dimension (mm)	115L x 65W x 30H
Weight	140g

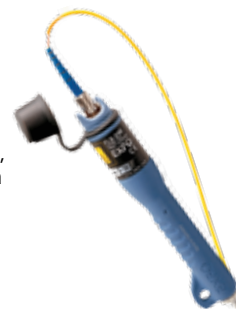
ORDERING INFORMATION

VFL-1A	VFL-1A	\$395.00
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EXFO FLS-240 Pocket Pal

Visual Fault Locator

The Pocket Pal is the easiest way to identify fibers from end to end and locate polished connector endfaces. Its red laser shines through most yellow-jacketed fibers to help you pinpoint breaks, bends, faulty connectors, splices and other causes of signal loss. It has a reach of up to 5 km. The convenient FLS-240 locates faults visually by creating a bright red glow at the exact location of the fault on singlemode or multimode fibers.



ORDERING INFORMATION

FLS-241-UNIV	Pocket Pal VFL - 635nm Wavelength, 2.5mm sleeve	\$370.00
GP-1008	VFL Adapter (2.5mm to 1.25mm)	\$125.00

WILCOM Pen-Style VFL

Pocket Visual Fault Locator

The Wilcom Pocket Visual Fault Locator is a pencil style that features a universal connector accepting any optical connector style with a 2.5mm ferrule. The F6230A emits a visible red light, which can be seen for up to 5 km. Designed for singlemode and multimode.



ORDERING INFORMATION

F6230A	Pocket VFL w/ Universal Adapter	\$280.00
30032232-01	F2630A Adapter - Converts 2.5mm to 1.25mm	\$100.00

PRO VFL-5

Pocket Visual Fault Locator

The Precision Rated Optics VFL-5 is a high-quality, low-cost VFL solution for visual fault location. The VFL-5 has all of the same features as the big-boys (1 mW power, 650nm wavelength RED laser, 2.5mm universal adapter, continuous and modulated output), in a small-package that is easy to find space for in any equipment case or tool-belt.



ORDERING INFORMATION

VFL-5	VFL-5	\$175.00
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PRO VFL-10

Pocket Visual Fault Locator

The VFL-10 is a compact but powerful visible light source with an output power up to 8dBm. The VFL-10 can be used to locate sharp bends and breaks in jacketed or bare fiber within 10km. It can also be used to identify connectors in patch panels or identify fibers during splicing operations.



ORDERING INFORMATION

VFL-10	VFL-10	\$250.00
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PRO Optical Fiber Identifiers

The PRO Optical Fiber Identifier is a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a fiber. By utilizing local detection technology (non-destructive macro-bend detection which does not damage or overstress the fiber), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service. The Optical Fiber Identifier detects low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

OFI-11

Optical Fiber Identifier

Features:

- Detect a variety of optical tones, 270Hz, 1kHz and 2kHz
- Powered by 2 units of 1.5V AA alkaline batteries
- RB0.25mm, RB0.9mm, RB3.0mm plungers available

Standard accessories:

Carrying case, Manual, Battery, Two interchangeable adapter head (clamps), for jacketed and bare fiber, Test report

Optional accessories:

RB2.0mm plunger



OFI-30

Optical Fiber Identifier

Features:

- Easy-to-use with "ONE KEY" operation
- Efficiently identifies the traffic direction and frequency tone (270Hz, 1kHz, 2kHz) with audible warning.
- Displays the relative core power
- More accurate test with Sunshade
- Fiber Inspection Video Probe Port
- Easy-to-replace adaptors
- Durable metal housing and quality construction
- Lower power indication

Standard Accessories:

PRO OFI-30 Optical Fiber Identifier, 4pcs adapter heads, Sunshade, Alkaline battery, User Manual, Cotton Stick and Soft Carrying case.



ORDERING INFORMATION

OFI-11	<i>OFI-11 Optical Fiber Identifier</i>	\$995.00
OFI-30	<i>OFI-30 Optical Fiber Identifier</i>	\$1,195.00

Wilcom Optical Fiber Identifiers

The Wilcom Models F6222 and F6222C Optical Fiber Identifier are a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a fiber. The Model F6222C Optical Fiber Identifier is designed specifically to meet the needs of the CATV industry. By utilizing local detection technology (nondestructive macro-bend detection which does not damage or overstress the fiber), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service. Both Optical Fiber Identifiers detect low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

F6222 / F6222C

Optical Fiber Identifier

Features:

- Rugged Metal Case:- The units use the same field proven lightweight rugged metal housing as the rest of Wilcom's Optical Fiber Identifier product line.
- 850nm to 1700nm Range:- With the use of InGaAs detectors, the unit can be used on singlemode and multimode applications.
- Audible Tone:- The unit provides an audible tone in the presence of a fiber optic signal.
- Core Power Display:- Both the F6222 and F6222C can display Relative Core Power which is helpful in identifying bad connectors, splice points, etc.
- LED Indication:- LEDs indicate tone detection, Traffic presence, Traffic Direction, and Low Battery.
- Hands-Free-Operation:- With an easy to use thumb lock, hands-free operation can be enabled and disabled.

Standard Accessories:

Carrying pouch containing three easy to use field interchangeable adapter heads to accommodate; 900 µm buffered fiber, ribbon or 250µm coated fiber and 3mm jacketed fiber



ORDERING INFORMATION

F6222	<i>Wilcom F6222</i>	\$1,795.00
F6222C	<i>Wilcom F6222C</i>	\$1,795.00

OPTICAL FIBER IDENTIFIERS

AFL/NOYES Optical Fiber Identifiers

Noyes Optical Fiber Identifiers are rugged, handheld, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting, or restoration; it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction. The OFI is equipped with a unique two-position head design that can be configured to work with 250 μ m, 900 μ m, ribbon, or jacketed fiber in seconds, without tools or adjustments. When testing coated fibers, the slim design allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator's hand. A high impact molded plastic case makes it suitable for use outside plant or in the central office. The OFI is battery operated with the battery indication feature and performs thousands of tests before batteries replacement is necessary.

OFI 200D

Optical Fiber Identifier

Features:

- Rugged, handheld, lightweight
- Accepts 250 μ m and 900 μ m coated fiber, 3mm jacketed fiber cable, and ribbon fiber
- No head swapping or adjustments
- Identifies light carrying fiber
- Low insertion loss - traffic remains uninterrupted
- Indicates direction of traffic
- Indicates Tone signal visually and audibly
- 2kHz Tone detection
- Battery operated
- Low battery indication
- Low cost, easy to use



OFI 400

Optical Fiber Identifier

The OFI 400 model Identifier is the next generation of Noyes Optical Fiber Identifiers. It has all the features of the OFI 200 model plus easy-to-read LCD display with Backlight, multiple [TONE] signal detection (270 Hz, 330 Hz, 1 kHz, or 2 kHz), power saving feature, and [Set Reference] feature. The OFI 400 model also measures and displays fiber core power or relative power on an LCD display.

Features:

- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone detection
- Easy-to-read LCD display with backlight
- Measures fiber core or relative power
- Power off and set reference feature
- Battery operated
- Low battery indication
- Low cost, easy to use



ORDERING INFORMATION

OFI-200D	Noyes Fiber Identifier OFI 200	\$1,495.00
OFI-400	Noyes Fiber Identifier OFI 400	\$1,445.00

EXFO LFD-300 / TG-300

Live Fiber Identifier

For detecting dark/live fibers or identifying a particular dark fiber using a pulse light (270 Hz, 1 kHz, 2 kHz), traditional LFD functionality does the trick. However, they cannot pinpoint a specific live fiber—especially with doubtful labeling and poor record-keeping—and help you ensure you disconnect the right one. In addition, disconnecting the wrong fiber causes downtime, a costly consequence that can easily be avoided. For instance, at US\$10,000 per hour and per wavelength, downtime can cost up to US\$160,000 per hour for a 16-channel 10 Gbit/s WDM system. Combined with the TG-300, a non-intrusive, non-disruptive clip-on signature generator that is based on FiberFinder technology, EXFO's LFD-300 addresses this need with guaranteed low loss. Installed at the transmitter site, the TG-300 adds a typical 0.25 dB signature to the live signal by applying a soft low-frequency modulation pressure to the fiber. This signature is then detected at the other end by the LFD-300, in mere seconds, enabling technicians to identify a specific live fiber without having to disconnect it and, above all, without having to guess.

Features:

- Maximum loss of 1 dB guaranteed for most singlemode telecom fibers (most jacket types) and any wavelength
- No damage to the fiber: bending is always minimal, and the fiber is released when no power is detected
- Traffic detection and direction identification
- In-line, non-disruptive power estimation
- Safe to be used in long-haul applications and on high-payload fibers contrary to traditional live fiber detectors
- Optimized for 900 μ m, 1.6 mm and 3 mm jackets; no need to replace the headpiece



ORDERING INFORMATION

LFD-300	LFD-300 Live Fiber Identifier	\$2,995.00
TG-300	TG-300 Tone Generator	\$3,595.00
TK-FF	Fiber Finder kit	\$5,995.00

Kit Includes: (1) LFD-300, (1) TG-300 and (1) soft carrying bag

SPECIFICATIONS

Fiber type	3 mm, 1.6 mm, 900 μ m	
Insertion loss (dB)	Maximum guaranteed	1
	1550 nm	0.5
	1310 nm	0.3
Power range (dBm)	25 to -35	
Power measurement repeatability (dB)	± 1	
Test time (s)	<20	
Size (H x W x D)	9 5/8 in x 1 3/4 in x 2 1/4 in	
Weight (no batteries)	0.8 lb	
Temperature	operating	32 °F to 122 °F
	storage	-40 °F to 158 °F
Relative humidity	0 % to 93 % non-condensing	

Isopropyl Alcohol

99% reagent grade isopropyl is issued in cleaning fiber or connector end faces for better transmission performance. Also offered are pre-filled foam swabs and 8 oz. dispensing bottles available in glass or plastic bottles.

NOTE: All alcohol must be shipped by ground only and in regulated quantities. No export!



FOM-IA-4X6	1 case of 6 (4oz.) alcohol squeeze bottles	\$14.75
FOM-IA-1GX4	1 case of 4 gallons alcohol	\$118.20
FOM-IA-24X1	Alcohol - 24oz. bottle	\$7.45
FOM-IA-1GX1	1 Gallon Bottle of Alcohol	\$29.55
FOM-0106	Bi-furcated alcohol foam swabs (10 packs)	\$11.41
FOM-007PL	Automatic alcohol dispensing bottle (plastic)	\$6.95
FOM-007P	Automatic alcohol dispensing bottle (amber glass)	\$7.54
FOM-0068	1 Case of 6 (4oz.) Bottled Alcohol	\$16.95

Kim Wipes

The fiber optic industry demands a lint-free product when used with alcohol for cleaning fiber and connector end faces.



34-155	Kim Wipes - 1 box - 280 wipes	\$2.50
34-155C	Case of Wipes - 60 Boxes of 280 wipes	\$140.00

PRO Lint-Free Polyester Wipes

Precision Rated Optics mini-tub contains 90 perforated lint-free wipes, each wipe being 4" x 2" (10 cm x 5 cm). Each wipe can clean up to six fiber optic connectors or one bare fiber. Each mini-tub is approx. 3" in diameter and 3" tall (8 cm x 8 cm). Unlimited shelf life.



PRO-CW34	Lint-Free Polyester Wipes	\$10.45
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SWABS

Choose from wrapped swabs or general-purpose cotton swabs. The 2.5mm and 1.25mm swabs provide easy entry into bulkheads, mating sleeves and connector end faces to remove contaminants and debris.



FOM-25184	2.5mm Wrapped Swabs (5pk)	\$3.50
FOM-25183	2.5mm Wrapped Swabs (100pk)	\$40.00
FOM-25123	1.25mm Wrapped Swabs (5pk)	\$3.50
FOM-0005	2.5mm Mini Foam Swabs (50pk)	\$12.50
FOM-0006-100	General Purpose Cotton Swabs 1 Bag (100 Swabs)	\$12.50
MCC-S25	Microcare 2.5mm connector cleaning stick	\$32.73
MCC-S12	Microcare 1.25mm connector cleaning stk.	\$32.73
MCC-S16	Microcare 2.0mm & 1.6mm connector clean.	\$32.73
MCC-P25	Cleaning stick with a recessed nib	\$32.73

Sticklers Connector Cleaner

Sticklers pump spray bottle of fast-drying, nonflammable, nonhazardous cleaner for all fiber tasks, such as cleaning connectors and cleaning before splicing. 85 grams, approximately 400+ cleanings.



MCC-POC03M	Sticklers Connector Cleaner	\$17.33
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Optic Prep Tissues

A substitute for alcohol and Kim Wipes, Optic Prep contain a pre-moistened lens-grade tissue in foil wrap for cleaning optical fibers. The mild solvent is non-abrasive and stores easily in a tool kit.



CP410-1	Optic Prep Tissue Pack Box (1 Packet)	\$0.65
CP410	Optic Prep Tissue Pack Box (50pk)	\$27.65

QbE® Cleaning System

The QbE® offers 200 3" x 3" lint-free wipes per package. Simply pull a wipe over the neoprene platen, which prevents end face scratching, and draw the connector over the wipe in a linear motion. Use as a dry cleaner alone, or as wet cleaner in conjunction with Electro-Wash. When combined with Electro-Wash, each QbE offers upwards of 300 cleanings per box.



QbE	QbE® Cleaning Lint-Free Wipes	\$52.15
FOM-ES810	Electro-Wash 5oz. Aerosol Can (PX)	\$13.00

Electro-Wash® PX, NXO & MX

Electro-Wash® universal cleaners/degreasers are available in a variety of packaging options. They are effective in removing lcky Pic from loose tube cable, as well as cleaning ferrule end faces. The cleaner dries fast and leaves no residue. Electro-Wash PX & NXO are Ground Shipment Only. No Export!



FOM-ES810	Electro-Wash 5oz. Aerosol Can (PX)	\$13.00
FOM-ES1210	Electro-Wash 12oz. Aerosol Can (PX)	\$23.77
FOM-ES110	Electro-Wash 1 Gallon Bottle (PX)	\$77.89
FOM-ES1607	Electro-Wash 12.5oz. Aerosol Can (NXO)	\$50.81
FOM-ES107	Electro-Wash 1 Gallon Bottle (NXO)	\$643.97
FOM-CP421	Electro-Wash Wipes - 25 wipes per box	\$55.76

Canned Air

Competitively priced and provides a tube that securely fits in nozzle. Removes particles from normally inaccessible areas. Plastic trigger nozzle style from Tech Spray now available.

NOTE: Must be shipped by Ground Shipment only. No Export!



FOM-1008	Tech Spray Canned Air (10 oz.)	\$12.85
MCC-AIR	Big Blast (TM) Canned Air - 14oz.	\$13.80

CONSUMABLES & CLEANING PRODUCTS

PRO Fiber Optic Cleaning Cassette

- Connectors cleaned: SC, SC2, FC, ST, DIN, D4, MU, LC, MT
- More than 500 times/cartridge
- Environment Operation Temperature -20 °C to 50 °C



PRO-CT-001	<i>Fiber Optic Cleaning Cassette</i>	\$85.00
PRO-CT-004	<i>Replacement Reel</i>	\$25.00

Index Matching Gel

The index matching gel provides an effective way of reducing Fresnel reflections, and decreasing power loss in connectors and mechanical splices. A liquid gel in a syringe is also available.



FOM-0001V	<i>Index Matching Gel (.4oz)</i>	\$25.00
FOM-9006	<i>Liquid Matching Gel (6g, Syringe)</i>	\$14.50

IBC Cleaning Tools

Designed for SC, ST and FC for UPC & APC polishes



9392	<i>IBC Cleaner (2.5mm) Cleaning Tool</i>	\$63.99
9393	<i>IBC Cleaner (1.25mm) Cleaning Tool</i>	\$63.99

Ferrule Mate™ Cleaner

The FERRULE MATE™ cleaner from Seikoh Giken effectively cleans ferrules in the field or on the production floor. It may be used for PC and APC 1.25mm/2.5mm ferrules for 600 swipes, with a cost as low as 10 cents per cleaning.



SFM-250	<i>Ferrule Mate™ Cleaner (2.5mm)</i>	\$65.00
SFM-125	<i>Ferrule Mate™ Cleaner (1.25mm)</i>	\$65.00

CLETOP Cleaning Products

CLETOP and CLETOP-S Cleaning Cassettes and Cleaning Sticks are designed for a high degree of consistency and reliability when cleaning fiber endfaces. CLETOP cleaning products use a specially formulated dry cloth to remove dust, dirt, oil and other contaminants from ferrule surfaces. This cloth can be used without isopropyl alcohol and features anti-static properties to prevent dust from re-attaching to the fiber after cleaning. Cost effective and easy to replace, the cassette reels can be used for up to 400 wipes.

What's The Difference Between CLETOP and CLETOP-S?

CLETOP-S is a recently improved version that features a more-ergonomic design, central push button operation for ambidextrous use and requires no tools when replacing reels. Both the original CLETOP and CLETOP-S provide the same quality and reliability of cleaning!

What's The Difference Between Type A and Type B?

- CLETOP Type A has two slots designed specifically for 2.5mm ferrules (accepts SC, SC2, FC, ST, DIN, D4 connector types).
- CLETOP Type B features open rectangular access to cleaning tape accepting all the connector types as Type A and more: MU, LC, MT, MPO & MT-RJ (without pins), E-2000 and BICONIC.

ORDERING INFORMATION CASSETTES & REELS

14110501	<i>CLETOP-S Type A Cassette with Blue Tape</i>	\$93.80
14110611	<i>CLETOP-S Type B Cassette with White Tape</i>	\$93.80
14110601	<i>CLETOP-S Type B Cassette with Blue Tape</i>	\$93.80
14100610	<i>CLETOP Type B Cassette with White Tape</i>	\$107.00
14100600	<i>CLETOP Type B Cassette with Blue Tape</i>	\$107.00
14100510	<i>CLETOP Type A Cassette with White Tape</i>	\$107.00
14100500	<i>CLETOP Type A Cassette with Blue Tape</i>	\$107.00

STICKLERS Fiber Optic Cleaning Kit

This convenient kit includes all the cleaning supplies necessary for cleaning 2.5mm and 1.25mm fiber optic connections.



Kit Includes

MCC-POC03M	Fiber Optic Splice & Connector Cleaner: (2) cans
MCC-WFW	Lint-Free Polyester Wipes: (2) Tubs
MCC-FA1	The Flat Pack CleanWipes (25) packs
MCC-S25	Microcare 2.5mm connector cleaning stick (30) swabs
MCC-S12	Microcare 1.25mm connector cleaning stick (20) swab
	High-intensity, heavy-duty LED inspection flashlight. (1)
	Heavy-duty, weather-resistant, soft-sided polyester bag with a zipper closure. The bag is 9" wide x 5" deep x 5" tall (1)

MCC-FK03	<i>STICKLERS Fiber Optic Cleaning Kit</i>	\$107.10
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SqueezyKleen™ Telcom Cleaner

Cleans and fans fiber in two wipes without alcohol, saving time and money. Hear the difference! No follow-up with alcohol required to get fibers squeaky clean and separated when prepping for splicing. SqueezyKleen™ is less harsh on hands and reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. SqueezyKleen's™ unique formulation works to remove pik from the entire surface of loose-tube or ribbon fibers, leaving no residue. SqueezyKleen™ helps keep splice equipment clean of contamination for better fiber alignment and splice quality. Safe on acrylate and Mylar (R).



TC-128	<i>Gal. SqueezyKleen (TM) Telcom Cleaner</i>	\$36.46
TC-35LF	<i>1-quart (.95 liter) bottle with flip top</i>	\$14.00
TC-1	<i>SqueezyKleen Telcom Cleaner Satur. Wipes</i>	\$1.65



ORDERING INFORMATION CLETOP STICKS

FOM-0401-05	<i>CLETOP Sticks, 1.25mm (5 pack)</i>	\$5.43
FOM-0400-05	<i>CLETOP Sticks, 2.5mm (5 pack)</i>	\$5.43
14100401	<i>CLETOP Sticks, 1.25mm (200 pack)</i>	\$230.00
14100400	<i>CLETOP Sticks, 2.5mm (200 pack)</i>	\$230.00

ORDERING INFORMATION REPLACEMENT REELS

14110710	<i>CLETOP-S Replacement Reel (White Tape)</i>	\$28.95
14110700	<i>CLETOP-S Replacement Reel (Blue Tape)</i>	\$28.95
14100710	<i>CLETOP Woven Film Replacement Reel (White)</i>	\$28.95
14100700	<i>CLETOP Woven Film Replacement Reel (Blue)</i>	\$28.95

PRO TK-CLEAN Cleaning Kits



PRO-TK-CLEAN



PRO-TK-CLEAN-01



PRO-TK-CLEAN-02

Cleaning Kits

Item Code	Description	PRO-TK-CLEAN	PRO-TK-CLEAN-01	PRO-TK-CLEAN-02
PRO-BAG-LOGO	9" x 12" Black Nylon Tool Bag w/FOM Logo	X	X	X
FOM-CT2-002-01	Cleaning Stick Wrapped 2.5mm (100 Pack)	X	X	X
FOM-CT2-002-02	Cleaning Stick Wrapped 1.25mm (100 Pack)	X	X	X
CP410-1	Optic Prep Pre-saturated Pads (1 Packet)	X	X	X
FOM-CP421-1	Electro-Wash Wipe (MX) (1 Packet)	X	X	X
TC-1	American Polywater SqueekyKleen Wipes	X	X	X
AC-2LP	American Polywater AquaKleen Pump-Spray	X	X	X
QC-2LP	American Polywater QuickKleen Pump-Spray	X	X	X
PRO-CT-001	Fiber Optic Cleaning Cassette	X	X	X
PRO-CT-004	Replacement Cassette Reel	X	X	X
PRO-LFW-100	Lint-free Wipes (100ct)	X	X	X
PRO-CS-125	Quick Click 1.25mm (LC)		X	X
PRO-CS-250	Quick Click 2.5mm (SC)		X	X
HM-C400S	400x Fiber Scope			X

ORDERING INFORMATION Cleaning Kits

FOM-TK-CLEAN	Basic Fiber Optic Cleaning Kit	\$241.70
FOM-TK-CLEAN-01	Deluxe Fiber Optic Cleaning Kit	\$341.41
FOM-TK-CLEAN-02	Deluxe Fiber Optic Cleaning Kit w/ 400x Scope	\$508.26

PRO Quick-Click™

The PRO brand Quick-Click™ cleaning tool is designed to easily remove dirt and contaminants from both fiber optic connectors in bulkheads and unmated fiber optic connectors. The Quick-Click™ will save you time and money by cleaning both sides of a mated pair with one tool, without having to disconnect both fibers.



Designed for SC, ST and FC for UPC & APC polishes

PRO-CS-250	PRO Quick Click (2.5mm) Cleaning Tool	\$63.99
PRO-CS-125	PRO Quick Click (1.25mm) Cleaning Tool	\$63.99

STRIPPERS

NO-NIK® Fiber Optic Strippers

22 different NO-NIK tools in sizes ranging from 102 to 1,372 microns. Accurate to -0mm, + .0127mm. Exclusive centering device positions fiber for precise scoring and removal of buffer coating. Cutting blades made from razor quality steel score the buffer completely. Color-coded, cushion-grip handles for quick identification. Plastic heads, which make contact only with the buffer, center and support your work on both sides. Back-up blades support the cutting blades, nest positively, and "lock up" when the tool is closed to maintain perfect concentricity. Buffer being removed acts as guide and protection for the fiber. Stripping blade diameter clearly marked on plastic handle. Arrow indicates direction pressure should be applied when stripping on head.



NO-NIK® Fiber Optic Stripping Kits

This sturdy No-Nik Fiber Optic Stripper Kit is available with the most popular sizes, 203 microns (Red Handles), 254 microns (Light Blue Handles) and 305 microns (White Handles). The vinyl case protects these precision tools and provides convenient safe storage.



NN03 Fiber Optic Stripper Kit, 4" x 6-1/4" (102mm x 159mm) **\$123.45**

- NO-NIK Fiber Stripper - available the following minimum cutting diameters: 152, 175, 203, 254 & 305 microns.
- 86 1/2SF High Leverage Kevlar Shear - perfect solution for trimming back the DuPont Kevlar
- 821 Multi-Wire Stripper/Cutter - The 821 removes the outside jacket from fiber optic cable.
- A vinyl case protects the tools and provides convenient safe storage.



NN152KIT 152 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm) **\$90.03**

NN175KIT 175 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm) **\$90.03**

NN203KIT 203 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm) **\$88.76**

NN254KIT 254 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm) **\$88.76**

NN305KIT 305 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm) **\$88.76**

CLAUSS CFS-2 Fiber Stripper

For stripping 250 micron buffer coating to expose 125 micron cladded fiber. 1mm diameter stripping hole at tip of tool can be used to strip the fiber jacket. 140µm diameter hole and V-opening in blade allows removal of 250 micron buffer coating from 125µm fiber. Pre-set at the factory - no adjustments needed. Will not scratch or nick glass fiber. All stripping surfaces are manufactured to precise tolerances to assure clean, smooth strips. Comfort-grip, ergonomic handles lock to hold tool closed when it is not in use.



CFS-2 Dual Hole Fiber Stripper, 125µm, 2-3mm Jackets **\$25.17**

PART #	HANDLE COLOR	MINIMUM STRIPPING BLADE DIAMETER (mm)	PRICE
NN102	Navy	102mm (.004 in)	\$37.01
NN127	Silver	127mm (.005 in)	\$37.01
NN152	Gold	152mm (.006 in)	\$40.44
NN175	Mustard	175mm (.007 in)	\$40.44
NN203	Red	203mm (.008 in)	\$37.96
NN254	Lt. Blue	254mm (.010 in)	\$36.85
NN305	White	300mm (.012)	\$37.96
NN1118 (For Plastic Fiber)	Brown	1.118mm (.044 in)	\$29.63
NN1372 (For Plastic Fiber)	Clear	1.372mm (.054)	\$30.00

MILLER Fiber Strippers

For stripping 250 micron buffer coating from 125 micron optical fiber. Precision diameter hole and V-opening in blade allow for accurate buffer coating removal. Factory set, requires no adjustments. Prevents scratching or nicking of optical fiber. All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal.



PART #	CLADDING	DIAMETER	PRICE
FO-103-S	125µm	.005 in	\$43.84
FO-103-S-100	80-100µm	.003-.004 in	\$67.80
FO-103-S-140	140µm	.0055 in	\$67.80
FO-103-S-150	150µm	.006 in	\$67.80
FO-103-S-162	162µm	.0065 in	\$67.80
FO-103-S-175	175µm	.007 in	\$67.80
FO-103-S-187.5	187.5µm	.0075 in	\$67.80
FO-103-S-200	200µm	.008 in	\$67.80
FO-103-S-225	225µm	.009 in	\$67.80
FO-103-S-250	250µm	.010 in	\$67.80
FO-103-S-280	275-280µm	.011 in	\$67.80
FO-103-S-300	300µm	.012 in	\$67.80
FO-103-S-525	525µm	.021 in	\$67.80

MILLER Dual-Hole Fiber Strippers

FO-103-D-J

New Dual Hole models offer the same quality of the standard FO 103-S fiber tool coupled with a second hole. Second hole is for stripping 2-3mm fiber jackets and standard 125 fiber stripping (250 micron removal to 125 micron).

FO-103-D-J Dual Hole Fiber Stripper, 125µm, 2-3mm **\$48.81**

FO-103-D-250

Second hole is for stripping 900 micron tight buffer down to 250 micron buffer coating and standard 125 micron fiber stripping (250 micron removal to 125 micron) - allows longer stripping lengths without damaging the fiber. Easy-to-read stripping diagrams imprinted on handles.

FO-103-D-250 Dual Hole Fiber Stripper, 125µm & 250µm **\$72.50**

MILLER Tri-Hole Fiber Strippers

New three-hole model performs all common fiber stripping functions in one compact tool.

- Hole for removal of 2 to 3mm fiber jackets
- Removes 900 tight buffer to 250 micron buffer coating
- Standard 250 to 125 micron stripping

FO-103-T-250-J Tri-Hole Fiber Stripper, 125µm, 250µm, 2-3mm **\$77.48**

FO-103T-400-250 Tri-Hole Fiber Stripper, 250µm & 400µm **\$75.22**



JONARD Fiber Stripper 3 Hole

Three hole Fiber Optic Stripper model performs all common fiber stripping functions. This Fiber Optic Stripper strips the 1.6-3 mm fiber jacket down to the 600-900 micron buffer coating. The second hole strips the 600-900 micron buffer coating down to the 250 micron coating and the third hole is used to strip the 250 micron cable down to the glass fiber without nicks or scratches.



JIC-375	<i>Fiber Optic Stripper Three Hole</i>	\$24.00
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IMPERIAL Strippers

With Ergonomic, non-slip comfort grip handles, this "two-in-one" tool is an industry standard manufactured in the USA.



IFO-1200	<i>Duplex Cable Jacket Stripper</i>	\$38.30
IFO-1212	<i>Ribbon Fiber Jacket Stripper</i>	\$39.78
IFO-1300	<i>300mm Jacket and 900/250µm Buffer Stripper</i>	\$28.72
IFO-1500	<i>Duplex Zipcord Buffer Stripper</i>	\$38.76
IFO-1520	<i>"OSP" Fiber Buffer Stripper</i>	\$32.13

AFL De-Ribbonizer

The FST-12 Fiber Separation Tool is used to quickly, accurately and reliably split ribbons into sub-groups or individual fibers. The ergonomic FST-12 design enables safe and reliable, one-handed operation for use in diverse fiber deployment environments, such as aerial and remote-site applications.



S014012	<i>AFL De-Ribbonizer</i>	\$1,146.08
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FITEL De-Ribbonizer

The S220A uses two finely positioned blades to shave the matrix off the top and bottom of ribbon fiber while leaving the individual fiber jackets untouched. After the matrix is removed, the fibers separate out easily by hand. For use with 300 and 400µm ribbons of 2 to 12 strands. Blade life is 1,000 separations.



S220A	<i>Fitel De-Ribbonizer</i>	\$670.00
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SUMITOMO De-Ribbonizer

Sumitomo's FTA-2 is used for ribbonizing single fibers over a short length and for allowing multiple single fibers to be spliced simultaneously on a ribbon splicer.



FTA-2	<i>Sumitomo De-Ribbonizer</i>	\$795.00
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BUFFER & JACKET STRIPPERS

JONARD Ergonomic Fiber Stripper

Used for stripping the 250 micron coating from the 125 micron optical fiber. Preset at the factory so no adjustments are necessary, this unique Ergonomic design prevents nicks or scratches on the optical fiber. The stripping blades are ground and hardened for durability and long life. Yellow plastic formed handles, tool is 6" long



JIC-175	<i>Ergonomic Fiber Optic Stripper</i>	\$23.15
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JONARD FIBER STRIPPER & SCISSOR KIT

Kit includes the JIC-375 Fiber Optic Stripper, ES-1964 Electrician's Scissor, and convenient molded plastic pouch(with belt loop).



TK-375	<i>FIBER STRIPPER & SCISSOR KIT</i>	\$43.35
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MICRO STRIP Tool Kit

The Micro Strip Tool Kit provides precision fiber tools with interchangeable/replaceable blades and tube guides. They provide excellent removal of both the buffer and jacket of fiber optic cable without nicking or damaging the fiber.



MS-FOK1	<i>Micro Strip Tool Kit (3 blades for 125, 140, 230µm)</i>	\$155.13
MS-1FS	<i>Blade Holder</i>	\$19.50
MS-1RB06S	<i>Replacement Blade-Violet (Strips to 125µm)</i>	\$35.00
MS-1RB12S	<i>Replacement Blade-White (Strips to 250µm)</i>	\$35.00
MS-1RB21S	<i>Replacement Blade-Royal (Strips to 500µm)</i>	\$35.00

FITEL S210 Stripper

The S210 Single Fiber Stripper is designed to strip 250µm and 900µm diameter fiber. S210 stripper features a 20mm wide base with the blade located in the center to ensure safe longitudinal stripping.



S210	<i>Fitel Single Fiber Stripper</i>	\$115.00
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FITEL Ribbon Splitter

The FITEL S233 Ribbon Splitter splits 4, 8, and 12-fiber ribbons quickly and accurately. The unit features a compact design for field use and an all-metal body for maximum durability. Accommodates interchangeable fiber guides for different ribbon sizes and no tools are required to change fiber guides.

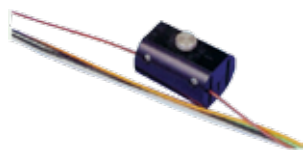


S233A	<i>Fitel Ribbon Splitter 4 Fiber Ribbon</i>	\$885.00
S233B	<i>Fitel Ribbon Splitter 8 Fiber Ribbon</i>	\$885.00
S233C	<i>Fitel Ribbon Splitter 12 Fiber Ribbon</i>	\$990.00

CABLE CUTTERS & STRIPPERS

CORNING Mid-Access Tool

The Corning Cable System Mid-Access Tool allows for mid-entry access in 2.4 to 3mm buffer tubes. Also available is a tool for 5 to 24mm buffer tubes.



OFT-000	Corning Cable System Mid-Access Tool for 2.4mm - 3.0mm Tubes	\$309.34
OFT-001	Replacement Blade for OFT-000	\$22.14
UAT3-000	Corning Cable System Mid-Access Tool For 5.0mm - 24mm Tubes	\$713.07
UAT3-BLADES	Replacement Blade for UAT-3000	\$81.88

MILLER MSAT: Mid-Span Access Tool

Quickly and easily access fibers in 2, 2.5 and 3mm buffer tubes in a mid-span location without fiber damage. All blades precisely factory mounted in tube slitting channels with no adjustment required by the installer. Tool design incorporates buffer tube size gages on the tool body for ease of selecting proper tube slitting channel. Convenient spring loaded lever opens and closes the tool and lever becomes flush with the top of the tool body when closed. For use with the following diameter buffer tubes: 2.0mm 1.8-2.2 mm (0.071" - 0.086") 2.5mm 2.3-2.8 mm (0.090"-0.110") 3.0mm 2.8-3.2 mm (0.110" - 0.126"). Made in the U.S.A.



80785	MSAT: Mid-Span Access Tool	\$262.49
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MILLER Round Cable Strippers

These two tools were designed for fast, safe and precise jacket removal of PE, PVC, rubber, and other jackets. RCS-114 for smaller diameter cables: 0.178 to 1.14 inches (4.5 - 29mm). RCS-158 for larger diameter cables: 0.75 to 1.58 inches (19 - 40mm). "Tri-Action Strip" capability. Rotary cut to a longitudinal cut along the cable length for end stripping. Spiral cut for mid-span stripping. Spiral cutting features provide easier removal of tougher jackets. Spring-loaded cable brace firmly secures cable to the blade for controlled cutting action. Blade depth can be regulated by simply turning the blade housing.

RCS-114	138mm (5.43 in), Round Cable Stripper	\$46.07
RCS-158	153mm (6.02 in) , Round Cable Stripper	\$67.75
CB-231	Replacement Blade	\$10.32

Cable stripper for outer jackets and insulations from 0.18 to 1.12 inches (4.5 to 28.5mm) O.D. Stripping action is both circumferential, then longitudinal for removal of insulation section at the end or mid span of wires. Adjustable depth up to 0.12 inch (3mm) cutting depth. Chisel point blade for harder coverings is standard; spherical blade design for softer insulation is optional. Handy spring-loaded ripping blade at base of tool to facilitate insulation removal. Solid construction for rugged applications.

MK02	Round Cable Jacket Stripper with Hook Blade	\$26.18
39391	Spherical Cutting Replacement Blades (set of 5)	\$23.21
39392	Replacement Chisel Point Blades (set of 5)	\$26.19

CABLEMATIC Drop Cable Cutters

Designed to cut and strip solid and stranded cooper and aluminum conductor. Precision, high quality carbon steels construction. Preformed rounded jaws automatically position the cable for optimum cutting. Designed to minimize flattening of the cable end.



CC22	Cable Cutter, up to .350 in. (8.89mm)	\$24.36
CC38	Cable Cutter, up to .430 in. (10.92mm)	\$35.50
CC60	Cable Cutter, up to .510 in. (12.95mm)	\$43.48

ACS Armored Cable Slitter

The ACS Tool is designed to work on jacketed and armored multi-fiber cable. Its main purpose is to gain midspan access to fiber optic conductors by slitting the outer jacket and armor on cables. The tool is designed with a precision adjustable blade to avoid damage to the fibers. The tool works on a cable diameter range of 5/16" - 1-1/8" (8mm - 28.6mm). The blade can be set up to .215" (5.5mm) deep.



ACS	Armored Cable Slitter	\$144.55
CB-251K	Replacement Blade Assembly	\$41.03

SMART-STRIP Cable Stripper

Versatile and compact tool suitable for all types of standard insulation. Produces an accurate cutting depth to any standard insulated size of wire or cable in the 0.75 - 10mm (0.03 to 0.39 inch) range. Strips UTP and STP data network cable.



SMART-STRIP	Data Cable Stripper	\$9.56
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JONARD CST-1900: ROUND CABLE STRIPPER

The CST-1900 is designed for fast and precise jacket removal of PVC, rubber, PE and other jacket materials, and works well on round cables with diameters ranging from 3/16" to 1-1/8" (4.5 - 29 mm). This is a Triple Action Tool, cutting longitudinally for end stripping, spiral for end stripping and mid-span cuts, and circular for jacket removal



CST-1900	CST-1900: ROUND CABLE STRIPPER	\$50.35
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RCS-114
RCS-158



MK02

JONARD High Leverage Cutters

High leverage design for superior cutting ability. Crafted for heavy-duty wire cutting and made of specially forged alloy steel designed for strength and cutting ability



JIC-63050

JIC-63050	High Leverage Cable Cutters	\$16.50
JIC-683	Lineman's B Side Cut Pliers	\$17.25
JIC-2288	High Leverage Diagonal Cutter	\$16.50

KEVLAR® Shears

FOKC Designed to cut Kevlar® strength members in fiber optic cables.

861/25F High-leverage tool for cutting, trimming and slicing through fibers and other tough industrial and electronics materials.

KC699 Soft, cushioned oversized bows for operator comfort. Blades are hardened stainless steel with a fine serration on one blade to grip Kevlar fibers and prevent slipping while cutting.

KS-1 Lightweight shears ideal for cutting Kevlar strength members found in fiber optic cable construction.



ORDERING INFORMATION

FOKC	Fiber Optic Kevlar® Cutter	\$26.31
861/25F	Electrical Shears - Serrated with Grips	\$23.72
KC699	Kevlar® Shears. Length 184mm (7.25")	\$13.50
KS-1	Kevlar® Shears. Length 140mm (5.5")	\$13.71
JIC-186	Kevlar Shears - Serrated w/Grips (6")	\$13.25

JONARD Cable Splicing Knife

Features a non-slip easy grip ergonomic handle made from TPR (thermoplastic rubber) for better control and reduced hand fatigue. Blade length is 1 3/4" and overall length is 6 1/4"



KN-7	Ergonomic Cable Splicing Knife	\$7.25
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SPLICER'S KNIFE CK6

Tough, coping-style blade. Forged steel. Full-size, High-dielectric, Red-cushioned handle.



CK6	6-1/4" Cable Splicer's Knife	\$9.42
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TWEEZERS



ORDERING INFORMATION

AA-SA	Strong fine tip, Stainless steel tweezers, 4 7/8" / 124mm	\$11.33
4SA	Extra fine tip, Stainless steel tweezers, 4 7/8" / 124mm	\$12.15
4C	Extra fine tip, Chrome-plated carbon steel tweezers, 4 1/4" / 108mm	\$11.72
5-SA	Needle sharp tips, Stainless steel tweezers, 4 1/4" / 108mm	\$15.32
7SA	Extra fine curve tips, Stainless steel tweezers, 4 1/2" / 114mm	\$14.02
7-C	Extra fine curve tips, Chrome-plated carbon steel tweezers, 4 1/2" / 114mm	\$14.73
231	Serrated inside tips, Stainless steel tweezers, 4 3/4" / 121mm	\$11.80
226	Serrated inside tips, Chrome-plated carbon steel tweezers, 4 3/4" / 121mm	\$10.78

SHEARS, SCRIBES & TWEEZERS

JONARD Scissors

ES-1964ERG Can cut 12 AWG stranded, 16 AWG solid. With a broader unique ergonomically designed comfort handle offering greater cutting leverage.

ES-1964 Notched to strip 19 and 23 AWG wire and one blade is serrated. A scraper and file are on the back of the blade. Holds edge even when used on fiber and kevlar based cables



ORDERING INFORMATION

ES-1964ERG	Ergonomic Electrician Scissors	\$11.85
ES-1964	ELECTRICIAN'S SCISSORS	\$10.10

JONARD Three Piece Splicer's Kit

This compact kit contains a special purpose ergonomic cable splicer's knife, scissor and leather pouch. The knife features a short 1 3/4" tough, cutlery-steel blade and a non-slip handle. The scissors are made of high carbon steel with scraper and file on one sides plus 2 stripping notches.. Both items fit securely in the leather pouch which can be mounted on belts up to 2" wide.



TK-400	Three Piece Splicer's Kit	\$27.25
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Scrites



CS-30-DE	Double Edge Carbide Scribe	\$51.95
CS-30-DE-R	Double Edge Carbide Replacement Blade	\$39.22
CS-30-W	30° Wedge-Carbide Tip	\$38.92
DS-60-C	60° Cone Angle-Diamond Tip Retractable	\$38.37
DS-90-W	90° Wedge Angle-Diamond Tip Retractable	\$78.06

TOOLS

JONARD 5 Piece Telecom Installers Kit

Kit includes the M-216C/EX Can Wrench, KN-7 Ergonomic Cable Splicing Knife, ES-1964 Electrician's Scissor, JIC-22035 Probe Pick and the H-50 Pouch (made of durable PVC material with metal clip).



TK-50	<i>Five Piece Telecom Installers Kit</i>	\$41.25
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JONARD Hollow Shaft Nut Drivers

These are full length hollow shaft nut drivers intended for working with long bolts. They are designed with cushion gripped ergonomic color coded handles. Handles provide greater torque and user comfort. Overall length 7"



ND-631	<i>Hollow Shaft Nut Drivers</i>	\$42.90
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JONARD 7 Piece Insulated Screwdriver Set

7 Piece: 3 Phillips and 4 Slotted screwdrivers

11 Piece: 3 Phillips, 4 Slotted, Linemans Plier, Long Nose Plier, Diagonal Plier, Wire Stripper



TK-70INS	<i>7 Piece Insulated Screwdriver Set</i>	\$36.10
TK-110INS	<i>11 Piece Insulated Tool Kit</i>	\$116.25

JONARD Magnetic Cable Retrieval System

A magnetic cable retrieval system which couples the cable with the pulling device through drywall, allowing the user complete control. Designed for both residential and commercial applications.



MP-700	<i>Magnetic Cable Retrieval System</i>	\$153.05
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JONARD Magnamole Magnetic Cable Guide

Quickly threads wire and cable through cavity walls and void spaces. Threads at an angle and safely through other wire and cable obstacles. Saves time, saves money, and sharply reduces the risk of accidents.



MM-800	<i>Magnamole Magnetic Cable Guide</i>	\$33.25
MM-110	<i>Magnamole Replacement Magnets (Red) .169" to .205" (Blue) .230" to .295"</i>	\$14.85
MM-120	<i>Magnamole Replacement Magnets (White) .145" to .169" (Gray) .173" to .201" (Black).205" to .232"</i>	\$14.85

JONARD FIBER OPTIC CRIMPER WITH DIE

This fully ratcheted crimper offers exceptional performance. Designed for minimal closing force (higher crimp force produced with lower hand force), plus there is no break-over hand force making the last click easily achievable. The head is angled to lessen the need to bend the wrist awkwardly, die changes are made quickly and easily, ergonomic handles are dual component with a soft rubber insert plus the tool includes a built in safety release mechanism. Very durable steel housing accommodates both Fiber Optic and Coax dies.



Crimps FC, ST, SC, LC, SMA, and MT-RJ Connectors
.151"/.178"/.134"/.139"/.190",
3.84mm/4.52mm/3.40mm/3.53mm 4.83mm

UC-8039	<i>FIBER OPTIC CRIMPER WITH DIE</i>	\$57.30
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CORNING UniCam® Connectors & Kits

Corning Cable Systems offers several tool kits for installation of UniCam Connectors. The flagship tool kit is the UniCam Pretium™ Tool Kit (TKT-UNICAM-PFC), a thoughtfully designed tool kit that virtually eliminates human variability from installation. The TKT-UNICAM-PFC includes a lightweight, handheld installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fiber scrap bin and a dual-clamp precision hold for the field fiber, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or single-mode LC, SC and ST® Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-performance specifications for UniCam Pretium-Performance Single-Mode Connectors.

TKT-UNICAM-PFC Kit Includes

FBC-015	Pretium Fact Cleaver w/ Diamond Blade and Built-In Fiber Scrap Container
TL-UCP	UniCam Pretium™ Installation Tool with Integrated CTS
100294-01	5" Electrician's Scissors with Notches
3201007-01	Crimp Tool
3206001-01	6" Wire Fiber Stripper
2104498-01	Plastic Refuse Container
2014493-01	Package of Corning Wipes
In Kit Only	Retractable Permanent Marker
2014494-01	Bottle of Corning Fiber Cleaning Fluid
VFL-A125	LC 1.25 mm Ferrule Adapter
VFL-A250	SC and ST® Compatible 2.5 mm Ferrule Adapter
2104417-01	1.5 mm Ferrule Cleaning Sticks (10/pack)
2104255-01	SC and ST Compatible 2.5 mm Ferrule Cleaning Sticks (10/pack)
2104502-01	"Dual-Hole" Miller Tool Fiber Stripper (for 900 µm and 250µm fiber)
02-001860-001	Unicam Pretium Tool Bag with Integrated Waste Receptacle and Organized Foam Insert Interior



TKT-UNICAM Kit Includes

TL-UC01	UniCam® Connector Elite Installation Tool
3201007-01	UniCam® Connector Crimp Tool
325004-01	Fiber Stripper, Clauss
3205007-01	No-Nik Stripper
3206001-01	Jacket Stripper
FBC-01	Score and Snap Fiber Cleaver
100294-01	Electrician's Scissors
100297-01	Number Marker
100312-01	Tweezers
2104047-01	Electrician's Tape
1508001-01	Alcohol Wipes
FOM-9104	Permanent Marker
2104282-01	Strip Gauge
2104060-01	Loctite® 411 Adhesive
SPR-006-150	Instructions, UniCam® Connector



The standard UniCam Connector Installation Tool Kit (TKT-UNICAM) is a basic installation tool kit and can be used to terminate all single- and 2-fiber UniCam Connector styles (SC, LC, ST compatible, FC and MT-RJ connectors). UniCam Pretium-Performance Multimode Connectors (SC, LC and ST compatible) can achieve Pretium-performance with the use of this tool.



ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	FERRULE	FIBER SIZE	PRICE
95-000-50	ST	MM	Composite	62.5/125µm	\$11.34
95-050-51	ST	MM	Zirconia	50/125µm	\$14.74
95-000-51	ST	MM	Zirconia	62.5/125µm	\$14.75
95-200-51	ST	SM	Zirconia	8.3/125µm	\$19.29
95-000-41	SC	MM	Zirconia	62.5/125µm	\$14.60
95-200-41	SC	SM	Zirconia	8.3/125µm	\$19.29
95-000-40	SC	MM	Composite	62.5/125µm	\$12.00
95-050-41	SC	MM	Zirconia	50/125µm	\$12.65
95-000-61	FC	MM	Zirconia	62.5/125µm	\$11.65
95-200-61	FC	SM	Zirconia	8.3/125µm	\$16.45
92-001-97-P-E	MT-RJ	MM	Composite	62.5/125µm	\$15.35
95-000-99	LC	MM	Zirconia	62.5/125µm	\$16.43
95-050-99-X	LC	MM	Zirconia	50/125µm	\$16.25
95-200-99	LC	SM	Zirconia	8.3/125µm	\$19.63

ORDERING INFORMATION CONNECTOR KITS

TKT-UNICAM-PFC	UniCam® Pretium™ Tool Kit	\$1,781.25
TKT-UNICAM	Standard UniCam Connector Installation Tool kit	\$725.15

OPTIONAL ACCESSORIES AND SUPPLIES

TL-UCP	UniCam® Pretium™ Installation Tool	\$1,395.00
TEST-UNICAM-CTS	Converts existing TKT-UNICAM to include CTS option	\$425.00
VFL-AKIT	UniCam® LC (1.25mm), SC & ST (2.50mm) VFL ferrule adapters	\$123.95

Also available in 25 packs
Call for pricing

QUICK TERMINATION CONNECTORS

AFL Fast Connectors

AFL's new FAST connectors are pre-polished, field installable connectors that eliminate the need for hand polishing in the field. Feature pre-stubbed factory polished ferrule that couples to the fiber being terminated by precision mechanical alignment and insures low loss with a proprietary gel. Each FAST connector comes with a factory-installed wedge clip that holds the clamping device open while a fiber is inserted. Once fiber is in place, the wedge clip is removed and discarded. Fiber is terminated and ready to be plugged in. The FAST tool kit provides all necessary tools for fiber preparation, two available cleavers: 92208-TB (for multimode connectors) and CT-30A (for singlemode connectors).

Features

- Pre-stubbed, factory-polished ferrule
- No epoxy required
- Precision mechanical alignment insures low loss
- Fiber can be resealed
- 3.0mm, 2.0mm, and 900µm boot provided with each connector
- VFI can be used to confirm fiber is installed properly
- Meets TIA/EIA 568A performance requirements
- Meets TIA/EIA 604 (focus) connector interface requirements

CS001201-Kit	SM/MM FAST Tool Kit w/ CT-30A Cleaver	\$1,464.69
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ORDERING INFORMATION CONNECTORS* & KITS

PART NUMBER	FIBER TYPE	COLOR	CABLE SIZE	PRICE
FAST™ SC Connector (packaged 6 per package)				
FAST-SC-MM50-6	MM 50/125	Black	3.0mm, 2.0mm, 900µm, 250µm	\$56.32
FAST-SC-MM625-6	MM 62.5/125	Beige	3.0mm, 2.0mm, 900µm, 250µm	\$56.32
FAST-SC-SM-6	SM	Blue	3.0mm, 2.0mm, 900µm, 250µm	\$71.20
FAST-SC-MM50L-6	MM 50/125 OM3 (10 gig)	Aqua	3.0mm, 2.0mm, 900µm, 250µm	\$59.36
FAST™ ST Connector (packaged 6 per package)				
FAST-ST-MM50-6	MM 50/125	Black	900µm, 250µm	\$58.80
FAST-ST-MM625-6	MM 62.5/125	Beige	900µm, 250µm	\$58.80
FAST-ST-SM-6	SM	Blue	900µm, 250µm	\$72.80
FAST-ST-MM50L-6	MM 50/125 OM3 (10 gig)	Aqua	900µm, 250µm	\$62.40
FAST™ LC Connector (packaged 6 per package)				
FAST-LC-MM50-6	MM 50/125	Black	3.0mm, 2.0mm, 900µm, 250µm	\$62.24
FAST-LC-MM625-6	MM 62.5/125	Beige	3.0mm, 2.0mm, 900µm, 250µm	\$62.24
FAST-LC-SM-6	SM	Blue	3.0mm, 2.0mm, 900µm, 250µm	\$92.48
FAST-LC-MM50L-6	MM 50/125 OM3 (10 gig)	Aqua	3.0mm, 2.0mm, 900µm, 250µm	\$65.36
VISUAL FAULT IDENTIFIERS				
VFI2-00-0900PR	AFL Noyes VFI 2			\$375.00
VFI3-00-0900PR	AFL Noyes HiLite			\$245.00
2900-50-0010MR	1.25mm Universal Adapter			\$56.00

FAST™ Connector Universal Tool Kit

The FAST Connector Universal Tool Kit provides all the necessary installation tools required for fiber preparation of 250µm or 900µm fibers, or 900µm, 2mm, or 3mm cordage for AFL's pre-polished FAST connectors. Included in the kit is the CT-30A universal multimode/single-mode cleaver, AFL's premier cleaver with a 16-position blade and built-in fiber scrap collector. The FAST Connector Universal Tool Kit carrying case contains all the industry standard termination tools required for fiber preparation, as well as, adequate storage for carrying extra FAST connectors for on-site convenience.

Features

- Industry standard fiber preparation tools
- Compact design, flexible yet rugged case
- Complete instructions provided

Applications

- Premise environments
- LAN Fiber to the Desk environments
- Patch panel/wiring closets
- FTTX applications
- Quick repair/replacement areas



FAST™ Connector Universal Tool Kit — CS001201-KIT \$1,464.69

S014080	CT-30A Universal Cleaver	FPF1-00-0900	Fiber Preparation Fluid
CS007780	FAST SC Assembly Tool	FM000413	Lint-free Cloth Wipes
CS007779	FAST LC Assembly Tool	C015830	Marker Pen
S014704	3mm Cable Clamp	CS007701	Installation Instructions
S014705	2mm Cable Clamp	CS001203	Strip Length Template
CS004442	0.25/0.9mm Cable Clamp	CS001204	Assembly Video (CD)
CS001205	Fiber Stripper	CS001202	Carrying Case
C095257	Kevlar Scissors		

TYCO/AMP Light Crimp™ Plus

AMP LightCrimp Plus ST, SC, LC and MT-RJ connectors provide easy and quick fiber terminations. There is no epoxy curing or polishing required.

All connectors feature a Zirconia ferrule and a typical loss of 0.3dB.

ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	PRICE
492642-1	ST Simplex	Multimode, 62.5µm	\$8.65
492643-1	SC Simplex	Multimode, 62.5µm	\$9.35
1278082-1	ST Simplex	Multimode, 50µm	\$8.65
1278079-1	SC Simplex	Multimode, 50µm	\$9.35
1754483-1	LC Simplex	Multimode, 62.5µm	\$11.35
1754483-2	LC Simplex	Multimode, 50µm	\$11.35
1754482-1	LC Simplex	Singlemode, 9/125µm	\$17.50
1754485-1	LC Duplex	Multimode, 62.5µm	\$22.75

LightCrimp™ Tool Kit Includes

58535-1	Pro-Crimper Hand Tool
492783-1	LightCrimp Plus SC Die Set
492622-1	LightCrimp Plus ST Die Set
FOM-0021	Buffer Stripper Tube
45-352	Fiber Stripper
FOM-9809	Kevlar Cutters
1278023-1	SC Cable Holder
49703-1	ST Cable Holder
FOM-6000	Cleave Tool
	LightCrimp Video



ORDERING INFORMATION KITS & SUPPLIES

1278118-4	ST, SC, MTRJ and LC LightCrimp Tool Kit	\$1,480.31
1754847-1	LC LightCrimp Plus Upgrade Kit	\$130.00

OPTIONAL ACCESSORIES AND SUPPLIES

492703-1	Cable Holder/Template ST Style	\$7.85	492782-1	SC LightCrimp Plus Crimp Tool	\$396.00
1278023-1	Cable Holder/Template SC Style	\$8.85	49263-1	ST LightCrimp Plus Crimp Tool	\$305.00
FOM-6000	Fiber Optic Cleaver	\$139.00	1754137-1	LC LightCrimp Plus Crimp Tool	\$375.00

3M™ CrimpLok™

CrimpLok connectors combine the speed of non-adhesive connectors with the performance characteristics of epoxy and Hot Melt Connectors. CrimpLoks are the ideal solution when there is no power source or for working in tight workspaces

CrimpLok™ Tool Kit Includes

6955-C	Crimp Tool	355-A	View Scope, 100X
6955-P	Polish Tool	6955-S	Buffer Stripper
SP-00503	Lapping Film, One step, CrimpLok - 50	05-00002	Cable Stripper
80611013121	Lapping Film, Final SM, CrimpLok - 50	05-000017	Link Free Cloths (4" x 4")
8892	Universal Polishing Jig	6955-H	CrimpLok Tool Pouch



ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE
6901	ST	MM	Zirconia	.2dB	\$6.75
6900	SC	MM	Zirconia	.2dB	\$7.00
8901	ST	SM	Zirconia	.1dB	\$9.50
8900	SC	SM	Zirconia	.1dB	\$9.50

ORDERING INFORMATION KIT & SUPPLIES

6955	CrimpLok Tool Kit for ST, SC Connectors	\$859.78
6365CT	3M Universal Crimp Tool	\$150.00
6955T	3M CrimpLok Activation Tool	\$135.00
SP-00503	3M CrimpLok One-step Polish Film	\$58.00
80-6110-1312-1	3M CrimpLok SM Final Step Film (50 pk)	\$46.95

QUICK TERMINATION CONNECTORS

LEVITON Thread-Lock Kit & Connectors

The Thread-Lock connector from Leviton is available in SC, FC and ST styles. These field-terminable, simple, craft-friendly connectors can be installed quickly with no heat, epoxy or proprietary tools. Features silicon snap-on build-up sleeves for easy installation. Available for 62.5µm, 50µm & singlemode fiber.

ORDERING INFORMATION CONNECTORS & CLIP

49884-MSC	SC Thread-Lock Connector MM (50µm or 62.5µm Fiber)	\$9.15
49882-MST	ST Thread-Lock Connector MM (50µm or 62.5µm Fiber)	\$6.75
49883-MFC	FC Thread-Lock Connector MM (50µm or 62.5µm Fiber)	\$7.75
49884-SSC	SC Thread-Lock Connector Singlemode	\$10.95
49882-SST	ST Thread-Lock Connector Singlemode	\$7.95
49883-SFC	FC Thread-Lock Connector Singlemode	\$12.15
49884-DPC	SC Duplex Clip for Thread-Lock Connectors, Black (25/bag)	\$9.45



ORDERING INFORMATION KIT & SUPPLIES

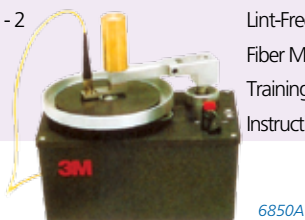
49800-UTP	Leviton Opt-X Pro Tool Kit for Thread-Lock Connectors	\$640.00
49885-SBS	Silicon Build-Up Sleeve, w/ one of each BUS type (5/bag)	\$3.50
49886-CTT	Thread-Lock ST/SC Tightening Tool	\$4.35

3M™ Hot Melt Connectors

3M Hot Melt continues to be a popular choice among installers in the field. The Hot Melt connectors utilize an advanced adhesive technology eliminating the application of epoxy. The connectors provide quick termination in 2 minutes or less and reheatable to allow for the fiber repositioning. All 3M Hot Melt connectors have a typical loss of 0.2dB.

All Hot Melt Kits Include

6312/XXXX	120V Oven / 230V Oven	6365-ST	Stripping Tools
6190	ST Connector Holders - 4	6365-CT	Crimp Tool
SP-00504	FC Connector Holders - 4	6365-FS	Fiber Scribe
SP-00505	FC Connector Holders - 4	6365-VS	View Scope (200x)
6365-PP	Round Polishing Pad	CA-8	Pronto Adhesive
6192A	2µm Lapping Film (pale green) - 200		Alcohol Bottle (empty)
661X-0.5S	0.5µm Diamond Lapping Film (pale gray)		Water Bottle (empty)
863X-0.02S	0.5µm Final Lapping Film (frosted) - 50		Fiber Scrap Can
263X	0.05µm Lapping Film (pale yellow) - 30		Roll-Up Pouch
8365-PP	Soft Polishing Pad - 2		Lint-Free Cloths
8892	Polishing Jig - 3		Fiber Marking Pen
6365-JS	Jacket Stripper		Training CD
6365-KS	Kevlar Snips		Instructions (paper)



6850A



ORDERING INFORMATION CONNECTOR KITS

6361	3M Hot Melt Tool Kit for ST, FC, SC with Oven (230V)	\$1,300.00
6156	Conversion Kit (Oven, ST, SC, FC Holders, and Cooling Stand)	\$637.00

OPTIONAL ACCESSORIES AND SUPPLIES

FOM-9110	6 Port Hot Melt Oven	\$333.00
FOM-9130	12 Port Hot Melt Oven	\$410.00
6850A	Auto Polisher for Hot Melts (includes ST Holder)	\$1,733.35
6392	SC Holder for 6850A Polisher	\$115.00
6292	FC Holder for 6850A Polisher	\$182.00
661X-0.5S	0.5µm Diamond Lapping Film	\$5.85
6192A	2µm 5" Polish Film 50 Pack	\$20.59
6192B	2µm 4" Polish Film 1000 Pack for 6850A Polisher	\$198.00
6192-AA	Singlemode Final Polish Film for Hot Melts	\$0.40
6650-LC	LC Hot Melt Expansion Kit	\$893.75
6650-LH	LC Hot Melt Holders	\$225.00

ORDERING INFORMATION CONNECTORS

PART #	STYLE	TYPE	FIBER SIZE	PRICE
6100	ST	Multimode	125µm	\$6.30
8100YS	ST	Singlemode	126µm	\$7.80
6200	FC	Multimode	125µm	\$8.76
8200W	FC	Singlemode	126µm	\$9.60
6300	SC	Multimode	125µm	\$6.44
8300	SC	Singlemode	126µm	\$8.45
6600-S	LC Simplex	MMI/900µm Boot	125µm	\$8.75
6600-D	LC Duplex	MMI/900µm Boot	125µm	\$14.61
6602-S	LC Simplex	MMI/1.6-2mm Boot	125µm	\$8.87
6602-D	LC Duplex	MMI/1.6-2mm Boot	125µm	\$17.53
6603-S	LC Simplex	MMI/3.0mm Boot	125µm	\$8.87
6603-D	LC Duplex	MMI/3.0mm Boot	125µm	\$17.73
8600-S	LC Simplex	SMI/900µm Boot	126µm	\$11.87
8602-S	LC Simplex	SMI/1.6-2mm Boot	126µm	\$11.33
8603-S	LC Simplex	SMI/3.0mm Boot	126µm	\$11.73

SPLICE-ON CONNECTORS

FITEL Splice-On Connector System

FITEL's new connector termination system allows for unsurpassed performance and flexibility in the field.

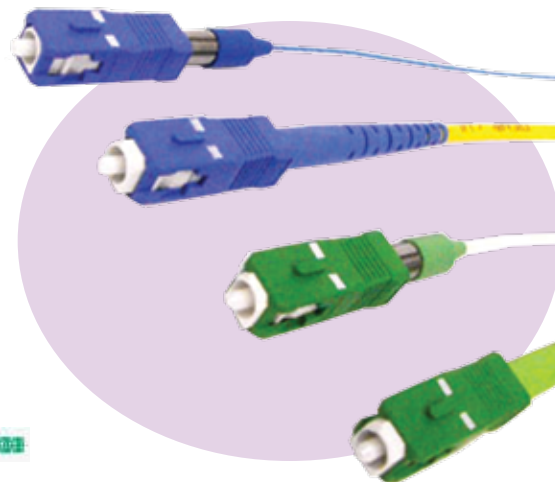
This new "splice-on" connector eliminates the need for field polishing and significantly improves the quality of the termination and installation time required.

FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. Once spliced, the SC/APC or SC/UPC connector is easily assembled by using a process that requires minimal skill or training.

900µm CONSTRUCTION



2 & 3mm CONSTRUCTION



ORDERING INFORMATION CONNECTOR KITS

SOC-KIT-A	<i>S122 Connector Termination Add-on Kit</i>	\$1,995.00
SOC-KIT-B	<i>S177 Connector Termination Add-on Kit</i>	\$1,995.00

SPECIFICATIONS

	TYPE	
	SC/UPC; FC/UPC	SC/APC; FC/APC
Insertion Loss	Typical 0.30dB	
Reflectance	< -55dB	< -65dB
Fiber Type	SMF	
Jacket Type	900µm, 2mm, 3mm	
Ferrule Type	Zirconia ceramic ferrule w/pre-polished fiber stub	

ORDERING INFORMATION CONNECTORS

SSCS-PN1	<i>SC/APC Splice-On-Connector, 900µm</i>	\$17.05
SSCS-PN2	<i>SC/APC Splice-On-Connector, 2mm</i>	\$17.36
SSCS-PN3	<i>SC/APC Splice-On-Connector, 3mm</i>	\$17.36
SSCS-P1	<i>SC/UPC Splice-On-Connector, 900µm</i>	\$16.56
SSCS-P2	<i>SC/UPC Splice-On-Connector, 2mm</i>	\$16.94
SSCS-P3	<i>SC/UPC Splice-On-Connector, 3mm</i>	\$16.94
SAPS-387	<i>FC/APC Splice-On-Connector, 3mm</i>	\$19.84
SAPS-356	<i>FC/UPC Splice-On-Connector, 2mm</i>	\$19.37
SAPS-357	<i>FC/UPC Splice-On-Connector, 3mm</i>	\$19.37

SUMITOMO Lynx CustomFit™ Splice-On-Connectors

The Lynx—CustomFit Splice-On Connector is compatible with a vast array of existing splicer brands in the market. Customization in the field, ease of use, elimination of hand polishing, reproducible results, reliability, and unprecedented accuracy in connectorization makes the Lynx—CustomFit Splice-On Connector the new choice in fiber termination.



ORDERING INFORMATION CONNECTORS

LYNX-SCUPCSM-F1	<i>SC/UPC Lynx Splice-On-Connector, Singlemode, 250µm & 900µm (pack)</i>	\$11.94
LYNX-SCAPCSM-F1	<i>SC/APC Lynx Splice-On-Connector, Singlemode, 250µm & 900µm (pack)</i>	\$16.89
LYNX-SCUPCMM-F2	<i>SC/UPC Lynx Splice-On-Connector, Multimode 50µm, 250µm & 900µm (pack)</i>	\$16.31



SPECIFICATIONS

Fiber Type	SMF; MMF 50µm and 62.5µm	
Coating Diameter	250µm, 900µm, 2mm, and 3mm	
Connector Type	SC	
Polishing	UPC	APC
Insertion Loss	Typical 0.20dB	Typical 0.20dB
Return Loss	< -55dB	< -65dB
Color	Blue	Green

ORDERING INFORMATION SUPPLIES

LYNX-HOLDER-C	<i>Connector Holder for Lynx Connectors</i>	\$278.00
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- Permanent Termination
- Easy Installation and High Performance
- Compatible with Conventional SC Connector
- Requires Neither Adhesives, Hand Polishing, nor Matching Gel
- Customized Connectorization in the OSP, CO, and Premise Environments
- Meets Telcordia GR-326 Standard
- Complete Connectorization in Less than 3 Minutes
- Instant Splice Loss Feedback, Requiring No Additional Equipment
- Eliminates the Need to Inventory Preterminated Jumpers
- Compatible with Many Existing Fusion Splicers, Eliminating Costly Purchases

QUICK TERMINATION & SPLICE-ON CONNECTORS

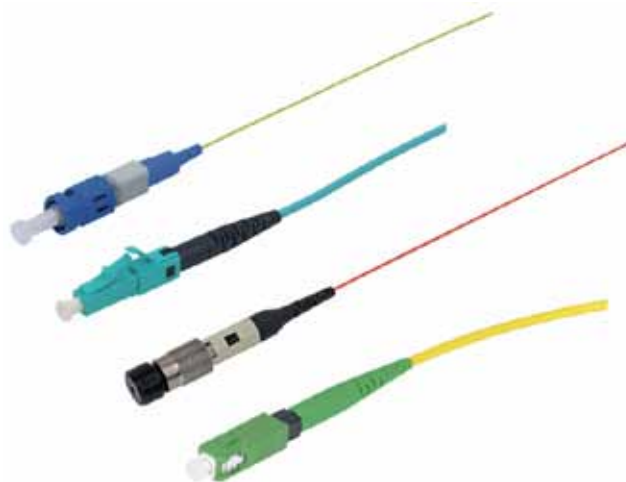
FUSECONNECT™ Connectors

AFL's FuseConnect fusion spliced, field installable connectors are uniquely designed and feature only four to five components. The factory pre-polished ferrule eliminates the need for polishing, adhesives, and crimping in the field, which minimizes the potential for operator error and expensive connector scrap.

FuseConnect utilizes a fusion splicer to terminate the connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance for SC/APC and LC/APC configurations, and is compliant to GR-326-CORE. FuseConnect is compatible with Fujikura fusion splicers and most other fiber holder-based fusion splicing platforms



FuseConnect in Fusion Splicer



Features

- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers
- SM compliance to GR-326-CORE
- MM compliance to TIA/EIA568C.3

Applications

- Connectorization in RF-overlay TFTP networks
- Connectorization in cable TV backbone networks
- Connectorization in outside plant
- Connectorization in FTTH
- Connectorization in MDU FTTH cabling
- Data center installation
- Central office connector replacement

SC CONNECTORS

FUSESC2/3MSMA-6	FUSECONNECT, SC, APC, SM, 2.0 & 3.0MM, PACK OF 6, GREEN	\$113.13
FUSESC-9U-SMA-6	FUSECONNECT, SC, APC, SM, 900UM, PACK OF 6, GREEN	\$101.67
FUSESC2/3MSMU-6	FUSECONNECT, SC, UPC, SM, 2.0 & 3.0MM, PACK OF 6, BLUE	\$111.38
FUSESC-9U-SMU-6	FUSECONNECT, SC, UPC, SM, 900UM, PACK OF 6, BLUE	\$99.93
FUSESC2/3MM62-6	FUSECONNECT, SC, PC, MM, 62.5UM, 2.0 & 3.0MM, PACK OF 6, BEIGE	\$110.18
FUSESC9U-MM62-6	FUSECONNECT, SC, PC, MM, 62.5UM, 900UM, PACK OF 6, BEIGE	\$98.73
FUSESC2/3MM50-6	FUSECONNECT, SC, PC, MM, 50UM, 2.0 & 3.0MM, PACK OF 6, BLACK	\$110.18
FUSESC9U-MM50-6	FUSECONNECT, SC, PC, MM, 50UM, 900UM, PACK OF 6, BLACK	\$98.73
FUSESC2/3MM50L-6	FUSECONNECT, SC, PC, MM, 50UM 10GIG, 2.0 & 3.0MM, PACK OF 6, AQUA	\$110.18
FUSESC9UMM50L-6	FUSECONNECT, SC, PC, MM, 50UM 10GIG, 900UM, PACK OF 6, AQUA	\$98.73

FC CONNECTORS

FUSEFC-9U-SMU-6	FUSECONNECT, FC, UPC, SM, 900UM, PACK OF 6, BLUE	\$128.40
FUSEFC9U-MM62-6	FUSECONNECT, FC, PC, MM, 62.5UM, 900UM, PACK OF 6, BEIGE	\$78.80
FUSEFC9U-MM50-6	FUSECONNECT, FC, PC, MM, 50UM, 900UM, PACK OF 6, BLACK	\$78.80
FUSEFC9UMM50L-6	FUSECONNECT, FC, PC, MM, 50UM 10GIG, 900UM, PACK OF 6, AQUA	\$78.80

LC CONNECTORS

FUSELC-2M-SMU-6	FUSECONNECT, LC, UPC, SM, 2.0MM, PACK OF 6, BLUE	\$117.71
FUSELC-9U-SMU-6	FUSECONNECT, LC, UPC, SM, 900UM, PACK OF 6, BLUE	\$106.25
FUSELC2M-MM62-6	FUSECONNECT, LC, PC, MM, 62.5UM, 2.0MM, PACK OF 6, BEIGE	\$116.62
FUSELC9U-MM62-6	FUSECONNECT, LC, PC, MM, 62.5UM, 900UM, PACK OF 6, BEIGE	\$105.05
FUSELC2M-MM50-6	FUSECONNECT, LC, PC, MM, 50UM, 2.0MM, PACK OF 6, BLACK	\$116.62
FUSELC9U-MM50-6	FUSECONNECT, LC, PC, MM, 50UM, 900UM, PACK OF 6, BLACK	\$105.05
FUSELC2MMM50L-6	FUSECONNECT, LC, PC, MM, 50UM 10GIG, 2.0MM, PACK OF 6, AQUA	\$116.62
FUSELC-9U-MM50L-6	FUSECONNECT, LC, PC, MM, 50UM 10GIG, 900UM, PACK OF 6, AQUA	\$105.05
FUSELC-9U-SMA-6	FUSECONNECT, LC, APC, SM, 900UM, PACK OF 6, GREEN	\$112.91
FUSELC-2M-SMA-6	FUSECONNECT, LC, APC, SM, 2.0MM, PACK OF 6, GREEN	\$112.91

ST CONNECTORS

FUSEST-9U-SMU-6	FUSECONNECT, ST, UPC, SM, 900UM, PACK OF 6, BLUE	\$102.76
FUSEST9U-MM62-6	FUSECONNECT, ST, PC, MM, 62.5UM, 900UM, PACK OF 6, BEIGE	\$101.02
FUSEST9U-MM50-6	FUSECONNECT, ST, PC, MM, 50UM, 900UM, PACK OF 6, BLACK	\$101.02
FUSEST9UMM50L-6	FUSECONNECT, ST, PC, MM, 50UM 10GIG, 900UM, PACK OF 6, AQUA	\$101.02

PRO Singlemode 9/125 μ m UPC Patchcords 3mm**FC-FC SIMPLEX**

PC-S-AFUFU01F	1 M	\$7.31
PC-S-AFUFU02F	2 M	\$7.58
PC-S-AFUFU03F	3 M	\$7.85
PC-S-AFUFU05F	5 M	\$8.39
PC-S-AFUFU10F	10 M	\$9.74

LC-LC SIMPLEX

PC-S-ALULU01F	1 M	\$9.89
PC-S-ALULU02F	2 M	\$10.18
PC-S-ALULU03F	3 M	\$10.48
PC-S-ALULU05F	5 M	\$11.06
PC-S-ALULU10F	10 M	\$12.52

SC-SC SIMPLEX

PC-S-ACUCU01F	1 M	\$7.09
PC-S-ACUCU02F	2 M	\$7.38
PC-S-ACUCU03F	3 M	\$7.68
PC-S-ACUCU05F	5 M	\$8.26
PC-S-ACUCU10F	10 M	\$9.72

ST-ST SIMPLEX

PC-S-ATUTU01F	1 M	\$7.09
PC-S-ATUTU02F	2 M	\$7.38
PC-S-ATUTU03F	3 M	\$7.68
PC-S-ATUTU05F	5 M	\$8.26
PC-S-ATUTU10F	10 M	\$9.72

FC-FC DUPLEX

PC-S-DFUFU01F	1 M	\$15.78
PC-S-DFUFU02F	2 M	\$16.38
PC-S-DFUFU03F	3 M	\$16.95
PC-S-DFUFU05F	5 M	\$18.12
PC-S-DFUFU10F	10 M	\$21.04

LC-LC DUPLEX

PC-S-DLULU01F	1 M	\$16.49
PC-S-DLULU02F	2 M	\$16.99
PC-S-DLULU03F	3 M	\$17.46
PC-S-DLULU05F	5 M	\$18.43
PC-S-DLULU10F	10 M	\$20.87

SC-SC DUPLEX

PC-S-DCUCU01F	1 M	\$14.18
PC-S-DCUCU02F	2 M	\$14.78
PC-S-DCUCU03F	3 M	\$15.35
PC-S-DCUCU05F	5 M	\$16.52
PC-S-DCUCU10F	10 M	\$19.44

ST-ST DUPLEX

PC-S-DTUTU01F	1 M	\$14.18
PC-S-DTUTU02F	2 M	\$14.78
PC-S-DTUTU03F	3 M	\$15.35
PC-S-DTUTU05F	5 M	\$16.52
PC-S-DTUTU10F	10 M	\$19.44

PRO Singlemode 9/125 μ m HYBRID UPC Patchcords 3mm**LC-SC SIMPLEX**

PC-S-ALUCU01F	1 M	\$10.11
PC-S-ALUCU02F	2 M	\$10.46
PC-S-ALUCU03F	3 M	\$10.80
PC-S-ALUCU05F	5 M	\$11.50
PC-S-ALUCU10F	10 M	\$13.24

LC-ST SIMPLEX

PC-S-ALUTU01F	1 M	\$8.49
PC-S-ALUTU02F	2 M	\$8.78
PC-S-ALUTU03F	3 M	\$9.08
PC-S-ALUTU05F	5 M	\$9.66
PC-S-ALUTU10F	10 M	\$11.12

SC-ST SIMPLEX

PC-S-ACUTU01F	1 M	\$7.09
PC-S-ACUTU02F	2 M	\$7.38
PC-S-ACUTU03F	3 M	\$7.68
PC-S-ACUTU05F	5 M	\$8.26
PC-S-ACUTU10F	10 M	\$9.72

LC-SC DUPLEX

PC-S-DLUCU01F	1 M	\$15.16
PC-S-DLUCU02F	2 M	\$15.70
PC-S-DLUCU03F	3 M	\$16.21
PC-S-DLUCU05F	5 M	\$17.25
PC-S-DLUCU10F	10 M	\$19.86

LC-ST DUPLEX

PC-S-DLUTU01F	1 M	\$16.98
PC-S-DLUTU02F	2 M	\$17.58
PC-S-DLUTU03F	3 M	\$18.15
PC-S-DLUTU05F	5 M	\$19.32
PC-S-DLUTU10F	10 M	\$22.24

SC-ST DUPLEX

PC-S-DCUTU01F	1 M	\$14.18
PC-S-DCUTU02F	2 M	\$14.78
PC-S-DCUTU03F	3 M	\$15.35
PC-S-DCUTU05F	5 M	\$16.52
PC-S-DCUTU10F	10 M	\$19.44

PRO Singlemode 9/125 μ m APC Patchcords 3mm**FC-FC SIMPLEX**

PC-S-AFAFA01F	1 M	\$15.14
PC-S-AFAFA02F	2 M	\$15.56
PC-S-AFAFA03F	3 M	\$15.99
PC-S-AFAFA05F	5 M	\$16.85
PC-S-AFAFA10F	10 M	\$19.00

LC-LC SIMPLEX

PC-S-ALALA01F	1 M	\$11.89
PC-S-ALALA02F	2 M	\$12.18
PC-S-ALALA03F	3 M	\$12.48
PC-S-ALALA05F	5 M	\$13.06
PC-S-ALALA10F	10 M	\$14.52

SC-SC SIMPLEX

PC-S-ACACA01F	1 M	\$9.49
PC-S-ACACA02F	2 M	\$9.78
PC-S-ACACA03F	3 M	\$10.08
PC-S-ACACA05F	5 M	\$10.66
PC-S-ACACA10F	10 M	\$12.12

FC-FC DUPLEX

PC-S-DFAFA01F	1 M	\$20.58
PC-S-DFAFA02F	2 M	\$21.18
PC-S-DFAFA03F	3 M	\$21.75
PC-S-DFAFA05F	5 M	\$22.92
PC-S-DFAFA10F	10 M	\$25.84

LC-LC DUPLEX

PC-S-DLALA01F	1 M	\$23.78
PC-S-DLALA02F	2 M	\$24.38
PC-S-DLALA03F	3 M	\$24.95
PC-S-DLALA05F	5 M	\$26.12
PC-S-DLALA10F	10 M	\$29.04

SC-SC DUPLEX

PC-S-DCACA01F	1 M	\$16.76
PC-S-DCACA02F	2 M	\$17.17
PC-S-DCACA03F	3 M	\$18.16
PC-S-DCACA05F	5 M	\$18.43
PC-S-DCACA10F	10 M	\$20.13

MULTIMODE PATCHCORDS

PRO Multimode 50/125 μ m UPC Patchcords 3mm

FC-FC SIMPLEX

PC-N-AFUFU01F	1 M	\$6.93
PC-N-AFUFU02F	2 M	\$7.38
PC-N-AFUFU03F	3 M	\$7.82
PC-N-AFUFU05F	5 M	\$8.72
PC-N-AFUFU10F	10 M	\$10.96

LC-LC SIMPLEX

PC-N-ALULU01F	1 M	\$8.93
PC-N-ALULU02F	2 M	\$9.38
PC-N-ALULU03F	3 M	\$9.82
PC-N-ALULU05F	5 M	\$10.72
PC-N-ALULU10F	10 M	\$12.96

SC-SC SIMPLEX

PC-N-ACUCU01F	1 M	\$6.05
PC-N-ACUCU02F	2 M	\$6.50
PC-N-ACUCU03F	3 M	\$6.94
PC-N-ACUCU05F	5 M	\$7.84
PC-N-ACUCU10F	10 M	\$10.08

ST-ST SIMPLEX

PC-N-ATUTU01F	1 M	\$6.05
PC-N-ATUTU02F	2 M	\$6.50
PC-N-ATUTU03F	3 M	\$6.94
PC-N-ATUTU05F	5 M	\$7.84
PC-N-ATUTU10F	10 M	\$10.08

FC-FC DUPLEX

PC-N-DFUFU01F	1 M	\$13.86
PC-N-DFUFU02F	2 M	\$14.75
PC-N-DFUFU03F	3 M	\$15.65
PC-N-DFUFU05F	5 M	\$17.44
PC-N-DFUFU10F	10 M	\$21.92

LC-LC DUPLEX

PC-N-DLULU01F	1 M	\$17.86
PC-N-DLULU02F	2 M	\$18.75
PC-N-DLULU03F	3 M	\$19.65
PC-N-DLULU05F	5 M	\$21.44
PC-N-DLULU10F	10 M	\$25.92

SC-SC DUPLEX

PC-N-DCUCU01F	1 M	\$12.10
PC-N-DCUCU02F	2 M	\$12.99
PC-N-DCUCU03F	3 M	\$13.89
PC-N-DCUCU05F	5 M	\$15.68
PC-N-DCUCU10F	10 M	\$20.16

ST-ST DUPLEX

PC-N-DTUTU01F	1 M	\$12.10
PC-N-DTUTU02F	2 M	\$12.99
PC-N-DTUTU03F	3 M	\$13.89
PC-N-DTUTU05F	5 M	\$15.68
PC-N-DTUTU10F	10 M	\$20.16

PRO Multimode HYBRID 50/125 μ m UPC Patchcords 3mm

LC-SC SIMPLEX

PC-N-ALUCU01F	1 M	\$7.49
PC-N-ALUCU02F	2 M	\$7.94
PC-N-ALUCU03F	3 M	\$8.38
PC-N-ALUCU05F	5 M	\$9.28
PC-N-ALUCU10F	10 M	\$11.52

LC-ST SIMPLEX

PC-N-ALUTU01F	1 M	\$7.49
PC-N-ALUTU02F	2 M	\$7.94
PC-N-ALUTU03F	3 M	\$8.38
PC-N-ALUTU05F	5 M	\$9.28
PC-N-ALUTU10F	10 M	\$11.52

SC-ST SIMPLEX

PC-N-ACUTU01F	1 M	\$6.05
PC-N-ACUTU02F	2 M	\$6.50
PC-N-ACUTU03F	3 M	\$6.94
PC-N-ACUTU05F	5 M	\$7.84
PC-N-ACUTU10F	10 M	\$10.08

LC-SC DUPLEX

PC-N-DLUCU01F	1 M	\$14.98
PC-N-DLUCU02F	2 M	\$15.87
PC-N-DLUCU03F	3 M	\$16.77
PC-N-DLUCU05F	5 M	\$18.56
PC-N-DLUCU10F	10 M	\$23.04

LC-ST DUPLEX

PC-N-DLUTU01F	1 M	\$14.98
PC-N-DLUTU02F	2 M	\$15.87
PC-N-DLUTU03F	3 M	\$16.77
PC-N-DLUTU05F	5 M	\$18.56
PC-N-DLUTU10F	10 M	\$23.04

SC-ST DUPLEX

PC-N-DCUTU01F	1 M	\$12.10
PC-N-DCUTU02F	2 M	\$12.99
PC-N-DCUTU03F	3 M	\$13.89
PC-N-DCUTU05F	5 M	\$15.68
PC-N-DCUTU10F	10 M	\$20.16

PRO Multimode 50/125 μ m 10 Gig UPC Patchcords 3mm

PRO offers 10 Gigabit duplex 1.6mm multimode 50 μ m Patchcords perfect for upgrading your network. Operating distance of 300 meters using laser optimized InfiniCor SX + multimode fiber. PRO 10 Gigabit assemblies are designed to run advanced applications, meet IEEE 802.3 specifications and offer superior connector polish. Other configurations available upon request.

LC-LC DUPLEX

PC-L-DLULU01F	1 M	\$18.31
PC-L-DLULU02F	2 M	\$19.66
PC-L-DLULU03F	3 M	\$21.04
PC-L-DLULU05F	5 M	\$23.72
PC-L-DLULU10F	10 M	\$30.48

LC-SC DUPLEX

PC-L-DLUCU01F	1 M	\$15.43
PC-L-DLUCU02F	2 M	\$16.78
PC-L-DLUCU03F	3 M	\$18.16
PC-L-DLUCU05F	5 M	\$20.84
PC-L-DLUCU10F	10 M	\$27.60

SC-ST DUPLEX

PC-L-DCUTU01F	1 M	\$13.95
PC-L-DCUTU02F	2 M	\$14.95
PC-L-DCUTU03F	3 M	\$15.95
PC-L-DCUTU05F	5 M	\$17.95
PC-L-DCUTU10F	10 M	\$22.95

SC-SC DUPLEX

PC-L-DCUCU01F	1 M	\$12.55
PC-L-DCUCU02F	2 M	\$13.90
PC-L-DCUCU03F	3 M	\$15.28
PC-L-DCUCU05F	5 M	\$17.96
PC-L-DCUCU10F	10 M	\$24.72

ST-ST DUPLEX

PC-L-DTUTU01F	1 M	\$12.55
PC-L-DTUTU02F	2 M	\$13.90
PC-L-DTUTU03F	3 M	\$15.28
PC-L-DTUTU05F	5 M	\$17.96
PC-L-DTUTU10F	10 M	\$24.72

PRO Multimode 62.5/125 μ m UPC Patchcords 3mm**FC-FC SIMPLEX**

PC-M-AFUFU01F	1 M	\$6.93
PC-M-AFUFU02F	2 M	\$7.38
PC-M-AFUFU03F	3 M	\$7.82
PC-M-AFUFU05F	5 M	\$8.72
PC-M-AFUFU10F	10 M	\$10.96

LC-LC SIMPLEX

PC-M-ALULU01F	1 M	\$8.93
PC-M-ALULU02F	2 M	\$9.38
PC-M-ALULU03F	3 M	\$9.82
PC-M-ALULU05F	5 M	\$10.72
PC-M-ALULU10F	10 M	\$12.96

SC-SC SIMPLEX

PC-M-ACUCU01F	1 M	\$6.05
PC-M-ACUCU02F	2 M	\$6.50
PC-M-ACUCU03F	3 M	\$6.94
PC-M-ACUCU05F	5 M	\$7.84
PC-M-ACUCU10F	10 M	\$10.08

ST-ST SIMPLEX

PC-M-ATUTU01F	1 M	\$6.05
PC-M-ATUTU02F	2 M	\$6.50
PC-M-ATUTU03F	3 M	\$6.94
PC-M-ATUTU05F	5 M	\$7.84
PC-M-ATUTU10F	10 M	\$10.08

FC-FC DUPLEX

PC-M-DFUFU01F	1 M	\$13.86
PC-M-DFUFU02F	2 M	\$14.75
PC-M-DFUFU03F	3 M	\$15.65
PC-M-DFUFU05F	5 M	\$17.44
PC-M-DFUFU10F	10 M	\$21.92

LC-LC DUPLEX

PC-M-DLULU01F	1 M	\$17.86
PC-M-DLULU02F	2 M	\$18.75
PC-M-DLULU03F	3 M	\$19.65
PC-M-DLULU05F	5 M	\$21.44
PC-M-DLULU10F	10 M	\$25.92

SC-SC DUPLEX

PC-M-DCUCU01F	1 M	\$12.10
PC-M-DCUCU02F	2 M	\$12.99
PC-M-DCUCU03F	3 M	\$13.89
PC-M-DCUCU05F	5 M	\$15.68
PC-M-DCUCU10F	10 M	\$20.16

ST-ST DUPLEX

PC-M-DTUTU01F	1 M	\$12.10
PC-M-DTUTU02F	2 M	\$12.99
PC-M-DTUTU03F	3 M	\$13.89
PC-M-DTUTU05F	5 M	\$15.68
PC-M-DTUTU10F	10 M	\$20.16

PRO Multimode HYBRID 62.5/125 μ m UPC Patchcords 3mm**LC-SC SIMPLEX**

PC-M-ALUCU01F	1 M	\$7.49
PC-M-ALUCU02F	2 M	\$7.94
PC-M-ALUCU03F	3 M	\$8.38
PC-M-ALUCU05F	5 M	\$9.28
PC-M-ALUCU10F	10 M	\$11.52

LC-ST SIMPLEX

PC-M-ALUTU01F	1 M	\$7.49
PC-M-ALUTU02F	2 M	\$7.94
PC-M-ALUTU03F	3 M	\$8.38
PC-M-ALUTU05F	5 M	\$9.28
PC-M-ALUTU10F	10 M	\$11.52

SC-ST SIMPLEX

PC-M-ACUTU01F	1 M	\$6.05
PC-M-ACUTU02F	2 M	\$6.50
PC-M-ACUTU03F	3 M	\$6.94
PC-M-ACUTU05F	5 M	\$7.84
PC-M-ACUTU10F	10 M	\$10.08

LC-SC DUPLEX

PC-M-DLUCU01F	1 M	\$15.42
PC-M-DLUCU02F	2 M	\$15.87
PC-M-DLUCU03F	3 M	\$16.77
PC-M-DLUCU05F	5 M	\$18.56
PC-M-DLUCU10F	10 M	\$23.04

LC-ST DUPLEX

PC-M-DLUTU01F	1 M	\$15.42
PC-M-DLUTU02F	2 M	\$15.87
PC-M-DLUTU03F	3 M	\$16.77
PC-M-DLUTU05F	5 M	\$18.56
PC-M-DLUTU10F	10 M	\$23.04

SC-ST DUPLEX

PC-M-DCUTU01F	1 M	\$12.10
PC-M-DCUTU02F	2 M	\$12.99
PC-M-DCUTU03F	3 M	\$13.89
PC-M-DCUTU05F	5 M	\$15.68
PC-M-DCUTU10F	10 M	\$20.16

SPECIFICATIONS Singlemode UPC

Insertion Loss	≤ 0.5 dB
Back Reflection	-50 dB

SPECIFICATIONS Multimode UPC

Insertion Loss	≤ 0.5 dB
Back Reflection	-25 dB

SPECIFICATIONS Singlemode APC

Insertion Loss	≤ 0.5 dB
Back Reflection	-60 dB

*Different cable diameters available upon request!

PRO RACK MOUNT ENCLOSURES

PRO® Swing-Out Style

Rack Mount Fiber Distribution Enclosures

Precision Rated Optics swing-out rack mounted enclosures are designed to provide connectivity and distribution solutions. Enclosures are supplied with universal mounting hardware for 19" or 23" mounting. Swing out style enclosures are designed to support the storage of splice trays.



Part #	RM-ADW102-BS	RM-ADW204-BS
Splice Tray Capacity	(2)	(4)
Rack Unit	1	2
Adapter Capacity	(2) Panels	(4) Panels
Style	Swing-out	Swing-out
Available Colors	Black	Black
Size (H" x W" x D") in	1.75" x 17" x 11.0"	3.5" x 17" x 11.0"
Weight	12 lbs.	13 lbs.
Material	16 GA Powder Coated Steel	16 GA Powder Coated Steel
Price	\$83.49	\$116.52

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*



Custom Cable Assemblies

Custom Cable Assemblies as easy as 1. 2. 3.



1. Choose your connectors
2. Choose your fiber
3. Choose your length



PRO Slide-Out Removable Top Style

Rack Mount Fiber Distribution Enclosures

Precision Rated Optics slide-out removable top rack mounted enclosures are designed to provide connectivity and distribution solutions. Enclosures are supplied with universal mounting hardware for 19" or 23" mounting. Slide-out removable top style enclosures are designed to support the storage of splice trays.





			
Part #	RM-ADM103-BS	RM-ADM206-BS	RM-ADM309-BS
Splice Tray Capacity	(2)	(3)	(5)
Rack Unit	1	2	3
Adapter Capacity	(3) Panels	(6) Panels	(9) Panels
Style	Slide-out Removable Top	Slide-out Removable Top	Slide-out Removable Top
Available Colors	Black	Black	Black
Size (H" x W" x D") in	1.75" x 17" x 14.0"	3.50" x 17" x 14.0"	5.25" x 17" x 14.0"
Weight	15 lbs.	19 lbs.	20.5 lbs.
Material	.060" Powder Coated Steel	.060" Powder Coated Steel	.060" Powder Coated Steel
Price	\$138.82	\$170.71	\$209.13

*All enclosures ordered do not include adapter panels, splice trays or pigtails.

PRO Slide-Out Style

Rack Mount Fiber Distribution Enclosures

Precision Rated Optics slide-out rack mounted enclosures are designed to provide connectivity and distribution solutions. Enclosures are supplied with universal mounting hardware for 19" or 23" mounting. Slide-out style enclosures are designed to support the storage of splice trays.

				
Part #	RM-ADL204-BS/BA	RM-ADL306-BS/BA	RM-ADL412-BS/BA	RM-ADL8524-BS/BA
Splice Tray Capacity	(2)	(3)	(8)	(16)
Rack Unit	2	3	4	8
Adapter Capacity	(4) Panels	(6) Panels	(12) Panels	(24) Panels
Style	Slide-out	Slide-out	Slide-out	Slide-out
Available Colors	Black	Black	Black	Black
Size (H" x W" x D") in	3.5" x 17" x 14.0"	5.25" x 17" x 14.0"	7.0" x 17" x 14.0"	14.88" x 17" x 14.0"
Weight	(Steel 22 lbs.) (Alum 12 lbs.)	(Steel 24 lbs.) (Alum 13 lbs.)	(Steel 26 lbs.) (Alum 14 lbs.)	19 lbs.
Material	.060" Powder Coated Steel (or) .060" Powder Coated Aluminum	.060" Powder Coated Steel (or) .060" Powder Coated Aluminum	14 GA Powder Coated Steel (or) .060" Powder Coated Aluminum	.060" Powder Coated Aluminum (Black or White)
Price	BS: \$145.13 / BA: \$160.16	BS: \$165.95 / BA: \$170.80	BS: \$221.63 / BA: \$215.18	BA: \$359.13 / WA: \$348.67

*All enclosures ordered do not include adapter panels, splice trays or pigtails.

PRO WALL MOUNT ENCLOSURES

PRO Slide-Out Style Combination Patch & Splice Distribution Units

Rack Mount Fiber Distribution Enclosures

Precision Rated Optics slide-out combination patch & splice rack mounted termination enclosures are designed to provide connectivity and distribution solutions. Enclosures are supplied with universal mounting hardware for 19" or 23" mounting. Slide-out style combination patch and splice enclosures are designed to support the storage of splice trays.



Part #	RM-ADE404-BA	RM-ADE8512-BA
Splice Tray Capacity	(4)	(8)
Rack Unit	4	8
Adapter Capacity	(4) Panels	(12) Panels
Style	Slide-out Combination	Slide-out Combination
Available Colors	Black	Black
Size (H" x W" x D") in	7.0" x 17" x 14.0"	14.88" x 17" x 14.0"
Weight	16 lbs.	20 lbs.
Material	.060" Powder Coated Aluminum	.060" Powder Coated Aluminum
Price	\$226.33	\$284.35

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

PRO Slide-Out Style Splice Distribution Units

Rack Mount Fiber Distribution Enclosures

Precision Rated Optics slide-out splice rack mounted termination enclosures are designed to provide connectivity and distribution solutions. Enclosures are supplied with universal mounting hardware for 19" or 23" mounting. Slide-out style splice enclosures are designed to support the storage of splice trays.



Part #	RM-ASL304-BA	RM-ASL408-BA
Splice Tray Capacity	(4)	(8)
Rack Unit	3	4
Adapter Capacity	(0) Panels	(0) Panels
Style	Slide-out Combination	Slide-out Combination
Available Colors	Black	Black
Size (H" x W" x D") in	5.25" x 17" x 14"	7" x 17" x 14"
Weight	14 lbs.	16 lbs.
Material	.060" Powder Coated Aluminum	.060" Powder Coated Aluminum
Price	\$173.74	\$230.36

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

PRO Patch Panels and Rack/Wall Mount

Rack Mount Patch Panel Fiber Distribution

			
Part #	RM-ABN103-B5	RM-ABS103-B5	RM-ADC103-B5
Splice Tray Capacity	N/A	N/A	(1)
Rack Unit	1	1	1
Adapter Capacity	(3) Panels	(3) Panels	(3) Panels
Style	Stationary	Stationary	Stationary
Available Colors	Black	Black	Black
Size (H" x W" x D") in	1.75" x 19" x 1"	1.75" x 19" x 8"	1.75" x 17" x 13.8"
Weight	1 lbs.	2 lbs.	16 lbs.
Material	.060" Powder Coated Steel	.060" Powder Coated Steel	.060" Powder Coated Steel
Price	\$12.45	\$21.45	\$109.45

*All enclosures ordered do not include adapter panels, splice trays or pigtails.

PRO Accessories

Rack Mount Fiber Distribution Accessories



Lock & Key For Rack Mount Enclosures

For Lexan Doors of Rack Mount Enclosures
Ask for 99534 to be installed on your rack mount enclosure

99534

\$5.46



Strain Relief Kit

Strain relief bracket for rack mount enclosures

Diameter: .300 - .790"

Material: Powder coated steel, rubber grommets

Grommets: (1) .300 - .400", (1) .410 - .500", (1) .510 - .790"

065-151-10

\$23.45

PRO WALL MOUNT ENCLOSURES

PRO® Standard Single Outer Door

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics wall mount enclosures are designed to provide connectivity and distribution solutions. Enclosures are divided into several groups to meet application specific requirements such as Construction Grade, Single Door, Dual Door, Added Security, NEMA 4 and NEMA 12. Units are available in standard Black or Off White unless specified



Part #	WM-AAA-0001-B5	WM-AAB-0001-B5
Adapter Capacity	(1) Panel	(1) Panel
Capacity	(1) Fiber spool	(12) Single splice holder
Color	Black	Black
Size (H x W x D) in	6.3" x 5.5" x 1.57"	6.3" x 5.5" x 1.57"
Material	18 GA steel	18 GA steel
Price	\$40.88	\$ 37.54

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

PRO® Standard Single Outer Door Construction Grade

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics wall mount enclosures are designed to provide connectivity and distribution solutions. Enclosures are divided into several groups to meet application specific requirements such as Construction Grade, Single Door, Dual Door, Added Security, NEMA 4 and NEMA 12. Units are available in standard Black or Off White unless specified



Part #	WM-ABA-0002-B5	WM-ABB-0004-B5	WM-ABC-0008-B5
Splice Tray Capacity	(2)	(4)	(8)
Adapter Capacity	(2) Panels	(4) Panels	(8) Panels
Style	Dual Door	Dual Door	Dual Door
Color	Black	Black	Black
Size (H x W x D) in	9.25" x 13" x 3.5"	11.5" x 13 x 3.5"	12" x 17" x 6"
Weight	7 lbs	8 lbs	15 lbs
Material	18 GA powder coated steel	18 GA powder coated steel	18 GA powder coated steel
Price	\$48.67	\$61.05	\$84.08

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

PRO Standard Dual Door

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics wall mount enclosures are designed to provide connectivity and distribution solutions. Enclosures are divided into several groups to meet application specific requirements such as Construction Grade, Single Door, Dual Door, Added Security and NEMA ratings. Units are available in standard black unless specified.

			
Part #	WM-ADA-0002-B5	WM-ADB-0004-B5	WM-ADC-0009-B5
Splice Tray Capacity	(2)	(4)	(3)
Adapter Capacity	(2) Panels	(4) Panels	(9) Panels
Style	Dual Door	Dual Door	Dual Door
Color	Black	Black	Black
Size (H x W x D) in	10.2" x 12.5" x 3.5"	10.8" x 12" x 4"	17" x 21.2" x 5"
Weight	8 lbs	10 lbs	23 lbs
Material	16 GA powder coated steel	16 GA powder coated steel	16 GA powder coated steel
Price	\$92.46	\$106.64	\$175.33

*All enclosures ordered do not include adapter panels, splice trays or pigtails.

PRO Standard Lockable Dual Door

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics wall mount enclosures are designed to provide connectivity and distribution solutions. Enclosures are divided into several groups to meet application specific requirements such as Construction Grade, Single Door, Dual Door, Added Security and NEMA ratings. Units are available in standard black unless specified.

		
Part #	WM-ACA-0002-B5	WM-ACB-0004-B5
Splice Tray Capacity	(2)	(4)
Adapter Capacity	(2) Panels	(4) Panels
Style	Dual Door	Dual Door
Color	Black	Black
Size (H x W x D) in	10.2" x 12" x 3.5"	12" x 12" x 3.5"
Weight	8 lbs	9 lbs
Material	18 GA powder coated steel	18 GA powder coated steel
Price	\$ 69.31	\$76.31

*All enclosures ordered do not include adapter panels, splice trays or pigtails.

PRO WALL MOUNT ENCLOSURES

PRO® Added Security Dual Door

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics wall mount enclosures are designed to provide connectivity and distribution solutions. Enclosures are divided into several groups to meet application specific requirements such as Construction Grade, Single Door, Dual Door and Added Security. Units are available in standard black unless specified.



Part #	WM-AEA-0002-B5	WM-AEB-0004-B5	WM-AEC-0008-B5
Splice Tray Capacity	(2)	(2)	(4)
Adapter Capacity	(2) Panels	(4) Panels	(8) Panels
Style	Added security dual door	Added security dual door	Added security dual door
Color	Black	Black	Black
Size (H x W x D) in	6" x 12" x 5.5"	11" x 14" x 4.5"	16" x 20" x 6.5"
Weight	8 lbs	12 lbs	24 lbs
Material	16 GA powder coated steel	16 GA powder coated steel	16 GA powder coated steel
Price	\$144.29	\$161.06	\$189.37

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

Loaded Enclosures



Save valuable time in the field by ordering your enclosures pre loaded with adapter panels and pigtails based on your specifications.

Units come tested and ready to install!

PRO Optical Splice Enclosure

Wall Mount Fiber Distribution Enclosures

The Precision Rated Optics Optical Splice Enclosure (OSE) is a wall mounted central splicing and cable management enclosure with a weather tight NEMA 4 design for indoor or outdoor applications. Depending on the tray selected, the enclosure supports up to 24F or 36F single fused fibers and if mass fusing, the enclosure can support >2000 mass fused fibers. Each splice tray incorporates the "open keyhole" hinging mechanism to allow for ease in tray entry without tray removal. The OSE is an enclosure that supports fiber splicing for wall mount applications.

Features

- Polyester powder coat finish in standard black.
- All Corrosion resistant materials.
- Compact design with high splice storage capacity.
- Single outer and removable door.
- Top and bottom mounted cable entry plates supporting up to 8 liquid tight cable seals each.



Part #	WM-AFA-0016-WA	WM-AFB-0012-B5
Splice Tray Capacity	(8)	(12)
Adapter Capacity	(16) Panels	N/A
Style	Wall Mount	Wall Mount
Color	Off White	Black
Size (H x W x D) in	31" x 24" x 10"	17" x 21.1" x 5"
Weight	24 lbs	23 lbs
Material	.063 Aluminum powder coated	16 GA steel
Price	\$454.26	\$166.52

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

Part #	WM-AFC-0016-BA
Splice Tray Capacity	(16)
Adapter Capacity	N/A
Style	Wall Mount
Color	Black
Size (H x W x D) in	28" x 25.25" x 14.5"
Weight	47 lbs
Material	.080 Aluminum
Price	\$934.01

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*



PRO WALL MOUNT ENCLOSURES

PRO[®] NEMA Rated Dual Door

Wall Mount Fiber Distribution Enclosures

Precision Rated Optics NEMA enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts. They provide a degree of protection of the equipment inside the enclosure against ingress of falling dirt, windblown dust as well as harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water). These enclosures will remain undamaged by the external formation of ice.

Features

- Aluminum construction.
- Impact and weather resistance plastic.
- Polyester powder coat finish in standard tan
- All Corrosion resistant materials.



Part #	WM-AGA-0402-TA	WM-AGB-0404-TA
Splice Tray Capacity	(2)	(2)
Adapter Capacity	(2) Panels	(4) Panels
Style	NEMA wall mount	NEMA wall mount
Color	Tan	Tan
Size (H x W x D) in	13" x 13.7" x 5.75"	14" x 14" x 7"
Weight	12 lbs	14 lbs
Material	.08 powder coated aluminum	.08 powder coated aluminum
Price	\$276.15	\$325.88

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*











Part #	WM-AGC-0412-TA	WM-AHC-1306-GP
Splice Tray Capacity	(6)	(4)
Adapter Capacity	(12) Panels	(6) Panels
Style	NEMA wall mount	NEMA wall mount
Color	Tan	Grey
Size (H x W x D) in	22.4" x 19.5" x 10.5"	18" x 16" x 10"
Weight	16 lbs	10 lbs
Material	.08 powder coated aluminum	Impact and weather resistant plastic
Price	\$406.52	\$358.63

**All enclosures ordered do not include adapter panels, splice trays or pigtails.*

PRO Splice Trays

The Precision Rated Optics splice trays are universal to the industry. These trays are compatible with all of our enclosures. The splice trays provide protection and organization of fiber splices. Adhesive backed fiber insert holders and assorted cable ties included (grommets included on the 3030-SSTP).

				
Part #	ST-12AA0645S	ST-24AA1145S	ST-24AA0765S	ST-24AP1245S
Description	12 Single Fusion Splice Tray	24 Single Fusion Splice Tray	24 Single Fusion Splice Tray	24 Single Fusion Splice Tray
Size (H x W x D) in	6.5" x 4.75" x .5"	11.75" x 4" x .5"	7.75" x 6" x .5"	12.25" x 4" x .5"
Weight	Approx. 0.35 lbs.	Approx. 0.65 lbs.	Approx. 0.54 lbs.	Approx. 0.54 lbs.
Capacity	12 Single Fusion Splices	24 Single Fusion Splices	24 Single Fusion Splices	24 Single Fusion Splices
Material	Aluminum	Aluminum	Aluminum	Plastic Base w/ Aluminum Cover
Price	\$19.73	\$23.15	\$27.63	\$20.87

				
Part #	ST-24PP0855S	ST-24PP0945S	ST-36PP1055S	ST-12PP0627S
Description	24 Single Fusion Splice Tray	24 Single Fusion Splice Tray	36 Single Fusion Splice Tray	12 Single Fusion Splice Tray
Size (H x W x D) in	8.25" x 5.75" x .5"	9.75" x 4.5" x .5"	10.75" x 5.75" x .5"	6" x 2.75" x .75"
Weight	Approx. 0.50 lbs.	Approx. 0.60 lbs.	Approx. 0.60 lbs.	Approx. 0.10 lbs.
Capacity	24 Single Fusion Splices	24 Single or 48 Dual Stacked	36 Single, 72 Dual Stacked or 144 Mass Fusion	12 Single Fusion Splices
Material	Plastic	Plastic	Plastic	Plastic
Price	\$19.66	\$19.66	\$25.81	\$15.03

ADAPTER PLATES

PRO[®] Loaded Adapter Panels

	Part #	Conn. Type	# Of Conn.	Ferrell	Mode	Plate Color	Price
	ADP-6SC-M6	SC	6	Ceramic	MM	Black	\$16.94
	ADP-6SC-M6-OW					Off White	
	ADP-8SC-M6	SC	8	Ceramic	MM	Black	\$22.59
	ADP-8SC-M6-OW					Off White	
	ADP-12SC-M6	SC	12	Ceramic	MM	Black	\$34.16
	ADP-12SC-M6-OW					Off White	
	ADP-6SC-SM	SC	6	Ceramic	SM	Black	\$16.94
	ADP-6SC-SM-OW					Off White	
	ADP-8SC-SM	SC	8	Ceramic	SM	Black	\$22.59
	ADP-8SC-SM-OW					Off White	
	ADP-12SC-SM	SC	12	Ceramic	SM	Black	\$34.91
	ADP-12SC-SM-OW					Off White	
	ADP-6SCAPC-SM	SC	6	Ceramic	SM	Black	\$18.98
	ADP-6SCAPC-SM-OW					Off White	
	ADP-8SCAPC-SM	SC	8	Ceramic	SM	Black	\$23.68
	ADP-8SCAPC-SM-OW					Off White	
	ADP-12SCAPC-SM	SC	6	Ceramic	SM	Black	\$36.74
	ADP-12SCAPC-SM-OW					Off White	
	ADP-6SC-LOA	SC 10 GIG	6	Ceramic	MM	Black	\$21.16
	ADP-6SC-LOA-OW					Off White	
	ADP-12SC-LOA	SC 10 GIG	12	Ceramic	MM	Black	\$33.70
	ADP-12SC-LOA-OW					Off White	

PRO[®] Loaded Adapter Panels

	Part #	Conn. Type	# Of Conn.	Ferrell	Mode	Plate Color	Price
	ADP-12LC-M6	LC	12	Ceramic	MM	Black	\$23.98
	ADP-12LC-M6-OW					Off White	
	ADP-24LC-M6	LC	24	Ceramic	MM	Black	\$72.86
	ADP-24LC-M6-OW					Off White	
	ADP-12LC-SM	LC	12	Ceramic	SM	Black	\$51.61
	ADP-12LC-SM-OW					Off White	
	ADP-24LC-SM	LC	24	Ceramic	SM	Black	\$75.03
	ADP-24LC-SM-OW					Off White	
	ADP-12LC-LOA	LC 10 GIG	12	Ceramic	MM	Black	\$29.60
	ADP-12LC-LOA-OW					Off White	
	ADP-24LC-LOA	LC 10 GIG	24	Ceramic	MM	Black	\$53.04
	ADP-24LC-LOA-OW					Off White	
	ADP-6ST-M6	ST	6	Ceramic	MM	Black	\$16.94
	ADP-6ST-M6-OW					Off White	
	ADP-6ST-SM	ST	6	Ceramic	SM	Black	\$18.98
	ADP-6ST-SM-OW					Off White	
	ADP-8ST-M6	ST	8	Ceramic	MM	Black	\$19.08
	ADP-8ST-M6-OW					Off White	
	ADP-8ST-SM	ST	8	Ceramic	SM	Black	\$30.06
	ADP-8ST-SM-OW					Off White	
	ADP-12ST-M6	ST	12	Ceramic	MM	Black	\$26.57
	ADP-12ST-M6-OW					Off White	
	ADP-12ST-SM	ST	12	Ceramic	SM	Black	\$37.95
	ADP-12ST-SM-OW					Off White	
	ADP-6FC-M6	FC	6	Ceramic	MM	Black	\$30.06
	ADP-6FC-M6-OW					Off White	
	ADP-6FC-SM	FC	6	Ceramic	SM	Black	\$40.99
	ADP-6FC-SM-OW					Off White	
	ADP-8FC-M6	FC	8	Ceramic	MM	Black	\$36.43
	ADP-8FC-M6-OW					Off White	
	ADP-8FC-SM	FC	8	Ceramic	SM	Black	\$54.65
	ADP-8FC-SM-OW					Off White	
	ADP-12FC-M6	FC	12	Ceramic	MM	Black	\$62.24
	ADP-12FC-M6-OW					Off White	
	ADP-12FC-SM	FC	12	Ceramic	SM	Black	\$83.49
	ADP-12FC-SM-OW					Off White	
	ADP-12MTRJ-M6	MTRJ	6	Phos. Bronze	MM	Black	\$17.70
	ADP-12MTRJ-M6-OW					Off White	

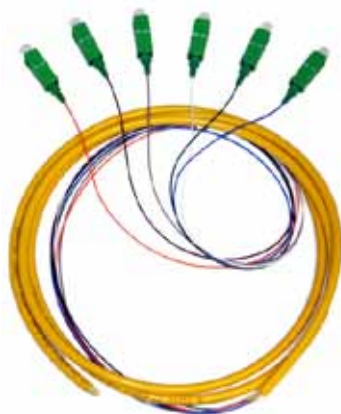
PRO Fiber Optic Adapters

	Stock ID	Type	Fiber Polish	Mode	Sleeve Material	Color	Foot Print	Price
	CA-S-ST-M2SMB	ST	UPC	SM	Phos. Bronze	Chrome	ST	\$1.25
	CA-S-ST-S2SMZ	ST	UPC	MM	Zirconia	Chrome	ST	\$1.45
	CA-S-FC-M2SMB	FC	UPC	MM	Phos. Bronze	Chrome	FC	\$2.30
	CA-S-FC-S2SMZ	FC	UPC	SM	Zirconia	Chrome	FC	\$3.35
	CA-S-FC-A2SMZ	FC	APC	SM	Zirconia	Chrome	FC	\$3.75
	CA-S-SC-M6SPB	SC Simplex	UPC	MM	Phos. Bronze	Beige	SC Simplex	\$1.15
	CA-S-SC-M7DPB	SC Duplex	UPC	MM	Phos. Bronze	Beige	SC Duplex	\$3.25
	CA-S-SC-S6SPZ	SC Simplex	UPC	SM	Zirconia	Blue	SC Simplex	\$2.25
	CA-S-SC-S7SPZ	SC Duplex	UPC	SM	Zirconia	Blue	SC Duplex	\$3.25
	CA-S-SC-A6SPZ	SC Simplex	APC	SM	Zirconia	Green	SC Simplex	\$2.25
	CA-S-SC-A7SPZ	SC Duplex	APC	SM	Zirconia	Green	SC Duplex	\$3.75
	CA-S-SC-G6SPB	SC Simplex 10 GIG	UPC	MM	Zirconia	Aqua	SC Simplex	\$1.75
	CA-S-SC-G7DPB	SC Duplex 10 GIG	UPC	MM	Zirconia	Aqua	SC Duplex	\$2.75
	CA-S-MT-M6SPB	MTRJ	UPC	MM	Phos. Bronze	Black	MTRJ	\$1.65
	CA-S-LC-M6SPB	LC Duplex	UPC	MM	Phos. Bronze	Beige	LC Duplex	\$3.25
	CA-S-LC-M7DPB	LC Quad	UPC	MM	Phos. Bronze	Beige	SC Duplex	\$6.00
	CA-S-LC-S6SPZ	LC Duplex	UPC	SM	Zirconia	Blue	LC Duplex	\$4.72
	CA-S-LC-S7DPZ	LC Quad	UPC	SM	Zirconia	Blue	SC Duplex	\$9.45
	CA-S-LC-G6SPB	LC Duplex 10 GIG	UPC	MM	Zirconia	Aqua	SC Simplex	\$3.25
	CA-S-LC-G7DPB	LC Quad 10 GIG	UPC	MM	Zirconia	Aqua	SC Duplex	\$6.00

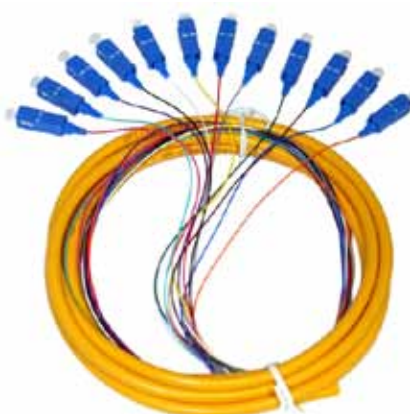
PRO Pigtail Packs

For Rack and Wall Mount Enclosure

Part #	# 1 Connector	# 2 Connector	Cable Core/Clad	Cable Jacket	Cable Color	Length (m)	Price
SPK-6SCUPC	(6) SC/UPC	(6) Pigtails	9/125μm	900μm	Multi	2	\$40.00
SPK-12SCUPC	(12) SC/UPC	(12) Pigtails	9/125μm	900μm	Multi	3	\$80.00
SPK-6SCAPC	(6) SC/APC	(6) Pigtails	9/125μm	900μm	Multi	2	\$45.00
SPK-12SCAPC	(12) SC/APC	(12) Pigtails	9/125μm	900μm	Multi	3	\$85.00
SPK-6SC-M6	(6) SC/APC	(6) Pigtails	62.5/125μm	900μm	Multi	2	\$40.00
SPK-12SC-M6	(12) SC/APC	(12) Pigtails	62.5/125μm	900μm	Multi	3	\$80.00
SPK-6STUPC	(6) ST/UPC	(6) Pigtails	9/125μm	900μm	Multi	2	\$40.00
SPK-12STUPC	(12) ST/UPC	(12) Pigtails	9/125μm	900μm	Multi	3	\$80.00
SPK-6ST-M6	(6) ST/UPC	(6) Pigtails	62.5/125μm	900μm	Multi	2	\$40.00
SPK-12ST-M6	(12) ST/UPC	(12) Pigtails	62.5/125μm	900μm	Multi	3	\$80.00
SPK-6LCUPC	(6) LC/UPC	(6) Pigtails	9/125μm	900μm	Multi	2	\$55.00
SPK-12LCUPC	(12) LC/UPC	(12) Pigtails	9/125μm	900μm	Multi	3	\$95.00
SPK-6LC-M6	(6) LC/UPC	(6) Pigtails	62.5/125μm	900μm	Multi	2	\$55.00
SPK-12LC-M6	(12) LC/UPC	(12) Pigtails	62.5/125μm	900μm	Multi	3	\$90.00



SPK-6SCAPC



SPK-12SCUPC

OCC RACK SOLUTIONS

OCC® Open Frame Racks

When it comes to standard EIA-compliant aluminum open-frame relay racks, OCC offers top-of-the-line relay racks that feature a variety of heights to meet any cabling infrastructure needs. Ideal for equipment rooms and telecommunications closets, our open frame rack is an excellent foundation to build any network system.

ORDERING INFORMATION Open Frame Racks

OF2403	48"H x 19"W x 3"D 24 RU	\$113.63
OF3603	68.25"H x 19"W x 3"D 36 RU	\$121.00
OF4503	84"H x 19"W x 3"D 45 RU	\$149.30

* Additional dimensions available

Features

- 3" deep vertical channels are tapped on front and back for #12-24 pilot point combo head screws
- 7/8" holes for floor bolting
- Sturdy aluminum construction
- Available in durable black powder-coat finish or silver coating



OCC® Wall Mount Enclosures

When networks need added security for wall-mounted applications, OCC offers wall-mount cabinet enclosures. The OCC Wall-mount Enclosures feature a locking smoked Plexiglas™ or steel front door, two adjustable shelf mounting rails and a locking rear swing frame with heavy-duty quick-release hinges for easy wall-mounting and fast access to the rear of installed equipment.

ORDERING INFORMATION Wall Mount Enclosures

WC828	15"H x 21"W x 20"D 8 RU 125 lbs load rating	\$460.05
WC1228	24"H x 21"W x 20"D 12 RU 125 lbs load rating	\$469.25
WC1828	36"H x 21"W x 20"D 18 RU 125 lbs load rating	\$598.93
WC2428	45"H x 21"W x 20"D 24 RU 175 lbs load rating	\$649.28

* Additional dimensions available

Features

- Removable doors
- Two adjustable shelf mounting rails
- Solid steel or locking smoked Plexiglas doors available
- Vented sides and top
- Accepts fan tray kits



OCC® Freestanding Cabinets

With OCC's complete line of free-standing cabinets, customers can provide seamless, upscale integration for any size network installation. This cabinet line offers a broad variety of solutions to fit any system application and the finest quality workmanship with the flexibility to meet any infrastructure demand.

ORDERING INFORMATION Freestanding Cabinets

CC1203	24"H x 25"W x 24"D 12 RU 240 lbs load rating	\$850.66
CC2403	48"H x 25"W x 24"D 24 RU 480 lbs load rating	\$1,067.67
CC2404	48"H x 25"W x 32"D 24 RU 480 lbs load rating	\$1,284.67
CC4503	84"H x 25"W x 24"D 45 RU 900 lbs load rating	\$1,602.37
CC4504	84"H x 25"W x 32"D 45 RU 900 lbs load rating	\$1,701.32

* Additional dimensions available

Features

- Removable sides and doors
- Four adjustable mounting rails
- Vented top with three 3" diameter cable-entry points
- Universal EIA alternating 5/8", 5/8" 1/2" hole pattern
- All aluminum frame construction
- Black powder-coat finish
- Smoked Plexiglas locking front door
- Solid steel, locking, vented rear door
- Leveling feet standard; locking casters optional
- Includes #12-24 pilot-point combo-head screws



Also available is a full line of accessories

- Wall mount swing gate racks
- Shelves
- Vertical and horizontal wire management
- Power strips
- Wall mount patch panel brackets

TX TO FX MEDIA CONVERTERS

10/100BASE-TX TO 100BASE-FX MEDIA CONVERTER

The 1100 series are our most popular media converters. Featuring one fiber port with SC, ST or FC connector and one twisted pair port with a RJ-45 Connector. Usable as a stand-alone unit or as a slide-in module to the 19" converter rack (14 bays) for use in a central wiring cabinet. At the speed and price our 1100 units can't be beat.



Standards:	IEEE802.3u 100Base-TX/FX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	50/125, 62.5/125 or 100/140mm MM 8.3/125, 8.7/125, 9/125 or 10/125 μm SM
Data Transfer:	100Mbps auto-duplex-negotiation 100Mbps for half-duplex mode 200Mbps for full-duplex mode
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	140mm x 110mm x 30mm (Inner power supply) 94mm x 70mm x 26mm(External power supply)
Certification:	ROHS, CE Mark

ORDERING INFORMATION

MC-1102M	Multimode RJ45/SC, 1310nm, 3 db, 2KM	\$145.00
MC-1125S	Singlemode RJ45/SC, 1310nm, 0.5 db, 25KM	\$118.40
MC-1140S	Singlemode RJ45/SC, 1310nm, 0.5 db, 40KM	\$129.50
MC-1160S	Singlemode RJ45/SC, 1310nm, 0.5 db, 60KM	\$148.00
MC-11100S	Singlemode RJ45/SC, 1550nm, 0.25 db, 100KM	\$525.00

1000BASE-TX TO 1000BASE-FX MEDIA CONVERTER

FOM-2100 Series Gigabit Media Converter supports two types of media for network connection such as 1000Base-TX and 1000Base-SX/LX fiber.



Standards:	IEEE802.3z AB 1000Base-T, 1000Base-SX/LX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	1000 SX: 50/125, 62.5/125 or 100/140μm MM 1000 LX: 8.3/125, 8.7/125, 9/125 or 10/125μm SM
Fiber:	1000 Full-duplex at Auto or Force-mode
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	26.2mm x 81mm x 105mm
Certification:	ROHS, CE Mark

ORDERING INFORMATION

MC-2100M	Multimode RJ45/SC, 850nm, 3 db, .5KM	\$325.00
MC-2120S	Singlemode RJ45/SC, 1310nm, 0.5 db, 20KM	\$407.00
MC-2180S	Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 80KM	\$728.00

10/100/1000BASE-TX TO 1000BASE-FX MEDIA CONVERTER

With link fault pass through (LFP) in TX/FX converter application, link status on one port is propagated to the other port to notice the remote nodes. In addition, both converters will be with forced mode on the TP port and with SC fiber port.



Standards:	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3z/ab 1000Base-T, IEEE802.3x full-duplex flow control, 1000Base-SX/LX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	1000 SX: 50/125, 62.5/125 or 100/140μm MM 1000 LX: 8.3/125, 8.7/125, 9/125 or 10/125μm SM
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	26.2mm x 81mm x 105mm
Certification:	ROHS, CE Mark

ORDERING INFORMATION

MC-2200M	Multimode RJ45/SC, 850nm, 3 db, .5KM	\$325.00
MC-2220S	Singlemode RJ45/SC, 1310nm, 0.5 db, 20KM	\$450.00
MC-2280S	Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 80KM	\$760.00

ETHERNET SWITCHES

Features

- 2 or 4 port 10/100M RJ-45
- 1 port 100Base-Fx (singlemode/multimode/wdm) optical port
- Store and forward mode
- 10/100M auto-negotiation, maximum speed to 20/200M (full-duplex)
- Supports IEEE 802.3z full-duplex flow control & back pressure half-duplex flow control
- Supports MAC self-learning
- Automatic MDI/MDI-X configuration
- LED status of FX TX1, TX2, TX3, TX4 link and power on diagnosis function

ORDERING INFORMATION

ES-1100M2	2 port 10/100Mbps, 1XSC Multimode Fiber Switch	\$159.00
ES-1125S2	2 port 10/100Mbps, 1X SC Singlemode 25KM Fiber Switch	\$229.00

MEDIA CONVERTERS & ETHERNET SWITCHES

SINGLEMODE AND MULTIMODE MEDIA CONVERTERS

The 100M Single and Multi-Mode Converter conducts the transparent conversion between the media of single and multi-mode optical fiber. It may switch over among 850nm, 1310nm multi-mode fiber (2km) and 1310, 1550nm single mode fiber (120km) and support 100m quick Ethernet. It is widely used in the interlinking and data communication fields of LAN and WAN and the single unit may be used for the single and multi-mode conversion.



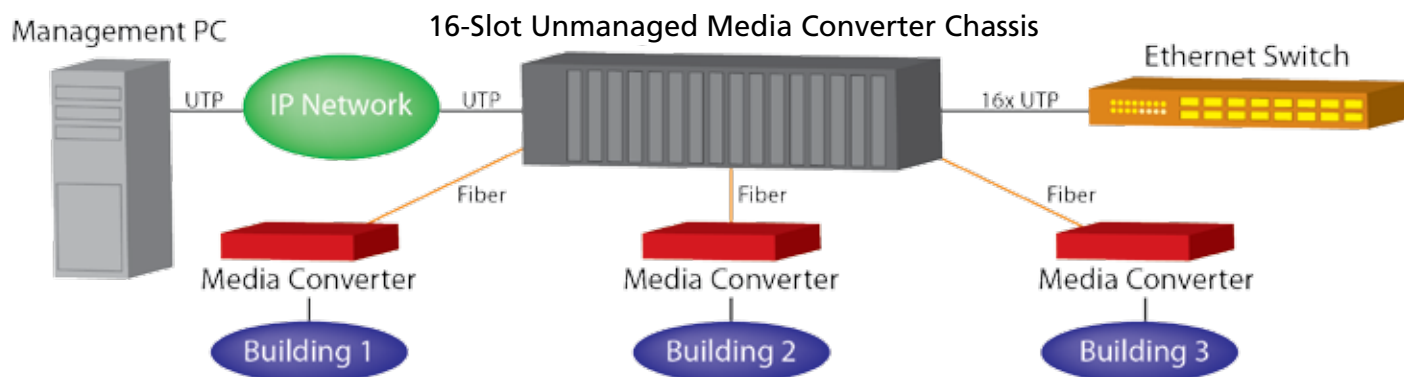
Standards:	Conforms to the IEEE802.3u 100BASE-TX/FX
Fiber Cable:	FX connectors are all SC
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0-65°C
Humidity:	5-90%
Dimension:	94mm x 70mm x 26mm

ORDERING INFORMATION

MC-1020MS25	Multimode to Singlemode, 1310/1550, SC, 2KM/120KM	\$277.50
MC-2020MS	Multimode to Singlemode, 850/1310, SC, 500m/0-80KM	\$525.00

Other configurations and distances available upon request

Typical Application



UNMANAGED 14/16-SLOT CHASSIS

This multi-media converter chassis is designed to accommodate 14 or 16 slide-in modules of various type of media converter at a central location for multiple segment cross connection. Users can transparently link backbone equipment such as switches, routers to LAN workgroup segments. Because each channel operates independently, new modules may be added as required. This flexibility allows the unit to grow with the network.

Standards	IEEE802.3u 10/100Base-FX
Slot Capacity	14 or 16 Slots for Modular Media converter (Per slot DC Power Output: 1A @ + 5VDC)
Ambient Temperature	0-50C
Humidity	5-90%
Dimension	90(H) x 424(W) X 230(D) mm (mountable for 19-inch rack)

ORDERING INFORMATION

MC-16AC	Unmanaged 16-Slot Chassis for Modular Media converter, 100~240VAC Power Input, AC-DC Redundant Dual power	\$490.00
MC-14AC	Unmanaged 14-Slot Chassis for Modular Media converter, 100~240VAC Power Input, AC-DC Redundant Dual power	\$370.00
MC-16DC	Unmanaged 16-Slot Chassis for Modular Media converter, 4-8VDC Power Input, Telecom DC-DC Redundant Dual power	\$625.00
MC-14DC	Unmanaged 14-Slot Chassis for Modular Media converter, 4-8VDC Power Input, Telecom DC-DC Redundant Dual power	\$200.00



Purchase Fully Loaded Chassis - Call For Details

JDSU WAVEREADY 3100 1U, TWO MODULE SHELF

The JDSU WaveReady 3100 is a 1U, two-slot, rack-mount shelf that is ideally suited for remote terminal and stand-alone network applications. The WaveReady 3100 provides power, monitoring, cooling, and management for all available WaveReady 3000-series modules. The remote management capabilities of the unit lowers support costs while its low profile (1.75 inches) reduces space requirements, thus lowering operating expenditures. Its daisy-chaining capability offers pay-as-you-grow transition path up to five-module systems. This approach allows service providers to plan their capital expenditures in line with their budgets and customer demands. External interfaces on the backplane include a standard five-position terminal block, a DB-25 connector for aggregated major and minor alarm relays, one sensor input for each module, three DB-15 connectors for inter-shelf connection, and an RJ45 Ethernet connector for management connectivity. Power is supplied through a standard five-position terminal block for the DC version and IEC320 cables for the AC version.

ORDERING INFORMATION

DMS-3100DC004	<i>WAVEREADY 3100 1U, TWO MODULE SHELF</i>	\$1,785.00
DMS-3100AC002	<i>WAVEREADY 3100 1U, TWO MODULE SHELF</i>	\$2,625.00

ADDITIONAL PARTS

DMS-3100FAN02	<i>FAN MODULE</i>
DMS-3100AF000	<i>REPLACEMENT AIR FILTER KIT (FILTER AND HARDWARE)</i>
DMS-3100AFR00	<i>REPLACEMENT AIR FILTERS</i>
DMS-3100-PWR02	<i>110 V AC TO -48 V DC POWER SUPPLY (1.25) FOR USE WITH DMS-3100DC002 SHELF</i>
DMS-3100-PWR03	<i>90 TO 264 V AC, 47-63 Hz to -48 dc power supply, continental Europe power plug for use with DMS-3100DC004 shelf</i>
DMS-3100-PWR04	<i>90 TO 264 V AC, 47-63 Hz to -48 dc power supply, Great Britain power plug for use with DMS-3100DC004 shelf</i>

CALL FOR PRICING



Parameter	DMS-3100DC004 (DC)	DMS-3100AC002 (AC)
Electrical Characteristics		
DC supply voltage	-48 V DC standard five-position terminal block located on the rear of unit	N/A
AC power supply	N/A	AC power is supplied through two IEC 320 cables connected to rear of shelf
Size 1U high (19-in config.) HxWxL	1.75 x 17.4 x 11.8 in	1.75 x 17.4 x 17 in
Weight		
Empty	4.1 lb	7.0 lb
With two modules	6.6 lb	9.5 lb
Environmental Characteristics		
Operating Temp.	-5 to 55°C	0 to 40°C
Storage Temp.	-40 to 85°C	-40 to 85°C
Relative humidity (non-condensing)	5 to 95%	5 to 95%
Interface		
Configuration	DB-15 connectors for inter-shelf connection and communication. Substituting cable included.	
Local and remote management	RS232/DB-9 connector on front panel of optional WaveReady communications module for craft management of modules in the shelf or suspending shelves. RJ45 Ethernet connector on backplane enabled when a WaveReady Communications Module is installed in the shelf or a parent shelf.	
Alarms	Dry contact on individual WaveReady modules. Relays open under normal operation. Relays closed when power is off and alarm is active. DB-25 connector on the backplane for aggregated major alarm relays and sensor input for each module.	
Front panel	Seven LEDs: Fan 1 (fan status); Fan 2 (fan status); DC Power A (power supply A); DC power B (power supply B); Shelf 1 (shelf configuration); Shelf 2 (shelf configuration); Shelf 3 (shelf configuration).	

JDSU WaveReady 3500-F 14 slot Platform

The WaveReady 3500-F is a fan-cooled optical provisioning platform targeted for metro access/edge and Inter-Office Fiber (IOF) applications. It accommodates up to 13 WaveReady modules managed by a WaveReady communications module in slot C. The WaveReady 3500-F supports a broad range of WaveReady modules including the WSH-200 series transponders, WSH-500 series any-rate transponders, WRT-700 series multirate transponders, with and without protection, and single channel and multichannel DWDM amplifiers. It also supports DWDM and CWDM mux/demux cassettes and or one, two-, or four-channel OADM cassettes. The WaveReady 3500-F provides power, cooling and a communications bus for all modules in the shelf. The communications module handles monitoring, management and configuration of each module in the shelf. This design reduces installation time for individual WaveReady modules.

External interfaces include a standard five-position terminal block, two 25-pin DB-25 connectors for aggregated major and minor alarm relays, and sense inputs for each module. The WaveReady communications module allows local and remote management through a DB-9/RS-232 port on the front panel and three RJ-45 Ethernet connectors. Both TL1 and SNMP based management are supported. The WaveReady 3500-F comes configured for installation in 19-inch, 23-inch, or ETSI telecom communication racks.

ORDERING INFORMATION

DMS-3500FSE03	<i>WaveReady 3500-F 14 slot Platform</i>
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CALL FOR PRICING



Specifications

	Minimum	Typical	Maximum
Electrical Characteristics			
DC supply voltage	Redundant, -48V, front access		
Power connectors	Standard four-position terminal block, -48V, on the front, right-hand side of the shelf		
Fuses	Two 12 A indicating		
Overall power dissipation			
Fan unit	-	-	50 W
Fully populated shelf	-	240 W	330 W
Cooling	Provided through a fan tray with six replaceable fans located at the top shelf. The cooling unit allows a power dissipation of 20 W per slot		
Power cables	14 AWG	-	12AWG
Physical Dimensions			
19 in. configuration	-	7U high	-
Size (H x W x L)	31.1 x 44 x 28 cm (12.2 x 17.4 x 11 in)		
Weight empty	9.5 kg (21 lbs)		
Weight fully populated with WaveReady	34 kg (75 lbs)		
Fan weight	1.8 kg (4 lbs)		
Capacity	One communications module in slot C., Thirteen WaveReady modules in slots 1 to 13		
Environmental Characteristics			
Operating ambient Temp	-5 °C	-	55 °C
Storage Temp	-40 °C	-	85 °C
Relative humidity (non-condensing)	5%	-	95%

PACKETLIGHT *MODULE SHELVES*

10G WDM SOLUTIONS - PL-1000



The PL-1000 is a carrier class leading 1U Metro DWDM platform, for transport of 10G Data, Voice and Storage Applications, over dark fiber and WDM networks. PL-1000 is designed primarily to address the growing needs for high data capacity applications such as IPTV, Triple play and NGN which needs to be transported over the same existing or new fiber infrastructures. The PL-1000's capabilities, dimensions and competitive cost make it the ideal solution for evolving metro Ethernet networks, enterprise networks, campus environments and central office connectivity. The PL-1000 supports up to 4 high-speed 10G services. Each service is configured independently, using PacketLight's user-friendly Web-based management tool. Additionally, by stacking multiple PL-1000, customers can expand 4 wavelengths to up to 32 wavelength thus achieving high level of scalability and low initial investment in a pay-as-you grow architecture.

FEATURES

- Up to 4x10G protected services
- Flexible multirate Multi-Mode (MM) or Single Mode (SM) interfaces support
- 10G Eth WAN/LAN, STM64/OC192, OTN (OTU-2), 10G FC
- Two embedded Optical Supervisory Channels (OSC) for management
- Performance monitoring for STM64/OC192, 10G FC and 10G Eth WAN/LAN
- Integrated Mux/Demux and Optical Amplifier (EDFA)
- Mapping 10G Eth and STM64/OC192 services into OTN (OTU-2)
- Dual pluggable AC or DC power supplies and FAN unit
- Ring, point to point and regeneration topologies
- 1+1 facility protection
- Web GUI and SNMP and EMS management as well as 3rd party SNMP tools

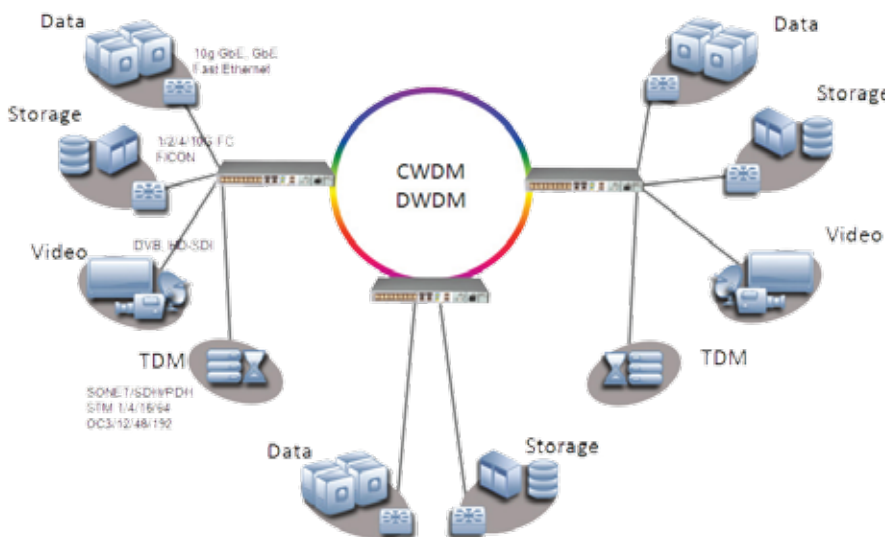
System		DWDM Link	
Topology	Point-to-Point, Ring, Linear ADM	Link Attenuation	<4dB (Mux + DeMux)
Transport Network Medium	Metro CWDM/DWDM / Dark Fiber	Optical Supervisory Channel	1490nm, 1510nm
Software Upgrade	Traffic Hitless – dual image	Optical Reach	40, 80, 120, 200Km
Protection	1+1 Facility	Optical Power Output	-1 dBm (min) to +2dBm (max)
Product Options		Sensitivity	-24dBm APD, -18dBm PIN
Transponder	850/1310nm to DWDM, 3R, 2/4 wavelengths Mux & Demux	Optical Monitoring	Tx & Rx power
Transponder + Booster Amp	850/1310nm to DWDM, 3R, 2/4 wavelengths Mux Demux, 1/2 EDFA (Booster, Pre-Amp)	Wavelength	ITU-T G.694.1 Ch15 - 60, 100GHz spacing
Regenerator	DWDM to DWDM 3R, 4 wavelengths 2 X Mux & 2 X Demux & 2 X EDFA	Environmental	
Physical Dimensions		Operating Temperature	-5o C to 50o C (+23o F to +122o F) Operational
Mounting	19", ETSI and 23"	Humidity	5% to 85% RHI
Weight	5.5Kg (Max)		
Size	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 44 mm (H) x 440mm (W) x 230 mm (D)		

ORDERING INFORMATION

FOM-PL-1000-001

10G WDM Solutions - PL-1000

CALL FOR PRICING



1G/2G/4G FC & FICON, ESCON, GBE

PL-1000E is a unique, all-in-one optical product supporting 8G FC, 10G, and sub-10G services. PacketLight solution is unprecedented with its rich feature set, Cost Effective, compact 1U chassis with low power consumption. PL-1000E is a leading CWDM/DWDM platform that provides maximum flexibility and scalability for fiber optic connectivity, it combines variety of services. PL-1000E allows to expand to 10G services by simply adding the needed pluggable optic modules (XFPs). This architecture provides true scalability at minimum possible cost. The PL-1000E supports the full spectrum of FC protocol rates: 1Gbps, 2Gbps, 4Gbps, 8Gbps and 10Gbps. Together with its extremely low latency, low power consumption, small foot print (1U, ETSI) and affordable cost PL-1000E is best in class CWDM/DWDM solution for connecting two data centers or back up sites. The PL-1000E is designed to support point-to-point, Linear ADM and Ring topologies with Facility protection. The PL-1000E is a highly integrated device, incorporating Mux/DeMux, EDFA and optical switch for both its transponder and regenerator modes, also enabling simple and cost effective upgrade of existing infrastructure to carry any type service.



FEATURES:

- Combines any service and common protocols from 2Mbps up to 10G services in the same 1U chassis
- Supports up to 4 sub 10G services in any mix- 1G/2G/4G FC & FICON, ESCON, Fast Ethernet, GbE, STM-1/OC-3, STM-4, OC-12, STM-16/OC-48, OTU1 (OTN), Video
- In addition, supports up to 4 services of 10G or 8G FC, 10G Eth, STM-64/OC-192 and optional OTU-2 OTN
- Performs bidirectional 3R on each transponder ensuring error free operation over distance
- Increase fiber utilization using 4xGbE Muxponder
- Low latency connectivity, ideal for trading applications and synchronous Data Center Replication
- Remote management with both optical supervisory channels and in-band management uplinks
- Supports single and dual fiber connections
- Support for 1+1 facility protection
- Performance Monitoring

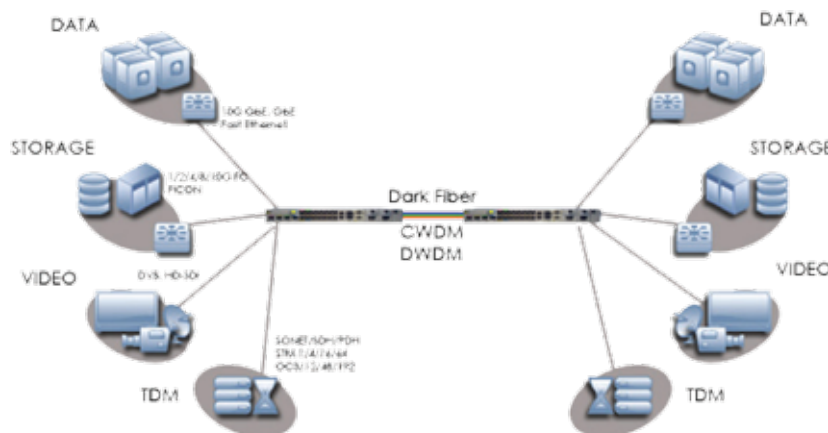
System		DWDM Link	
Topology	Point-to-point, Ring, Linear ADM Dual or Single Fiber	Wavelength	ITU-T G.694.1 Channels 15-60, 100GHz spacing
Transport Network Medium	Metro CWDM, DWDM & Dark Fiber	Optical Supervisory Channel	1490nm, 1510nm
Protection	1+1 Facility	Optical Monitoring	Tx & Rx power
Product Options		Optical Output Power	
Transponder	850/1310nm to C/DWDM, 3R, 4/8 wavelengths Mux & Demux	Sub 10G: 0dBm (min) to +4dBm (max) 8/10G: -1dBm (min) to +2dBm (max)	
Transponder + Amp	850/1310nm to DWDM, 3R, 4/8 wavelengths Mux Demux, 1 EDFA (Booster, Pre-Amp)	Sensitivity	Up to 2.66Gbps: -28 dBm APD 4/8/10G: -24dBm APD, -14dBm PIN
Muxponder	4x GbE 850/1310nm	Optical Reach	400Km for 1.25Gbps, 200Km for 2.66Gbps, 80Km for 4.25Gbps/8.5Gbps, 120km for 10Gbps
Optical Switch	1+1 OTS Facility Protection	Link Attenuation	<4dB (Mux + DeMux)
CWDM Link		Physical Dimensions	
Wavelength	ITU-T G.694.2 1270-1610nm 20nm spacing	Size	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 45 mm (H) x 440mm (W) x 230 mm (D)
Optical Supervisory Channel	For 8 Channels- 1310nm, 1330nm For 16 Channels- 1270nm, 1290nm	Weight	5.5Kg (Max)
Optical Reach	120Km for 1.25Gbps, 80Km up to 4.25Gbps,	Mounting	19", ETSI and 23"
Optical Output Power	0dBm (min) to +5dBm (max)	Environmental	
Sensitivity	-28dBm APD, -18dBm PIN	Operating Temperature	-5o C to 50o C (+23o F to +122o F) Operational
Optical Monitoring	Tx & Rx power	Humidity	5% to 85% RHI
Link Attenuation	<4dB (Mux + DeMux)		

ORDERING INFORMATION

FOM-PL-1000E-01

1G/2G/4G FC & FICON, ESCON, GbE

CALL FOR PRICING



PACKETLIGHT MODULE SHELVES

PASSIVE WDM SOLUTIONS - PL-300

The PL-300 family of products extend PacketLight's optical network solution capabilities by providing a wide range of passive optical modules. The PL-300 provides the needed optical layer functions of 4/8/16/32 DWDM wavelength Multiplexing, 4/8/16 CWDM wavelength Multiplexing, Optical Dispersion Compensation module (DCM), Optical Add and Drop (OADMs), splitter and combiners. The PL-300 interconnects seamlessly with PacketLight's products PL-400 and PL-1000 and third party WDM products to form cost effective high capacity DWDM and CWDM solutions. The PL-300 provides low granularity wavelengths add and drop capabilities and can be used to increase 4G and 10G solution reach.

Features

- Expansion of existing Fiber capacity with new services
- Building scalable high capacity pay as you grow optical networks
- Convergence of existing networks and new services over existing infrastructure
- Forming low cost fully passive optical solution, transparent to service rate & type
- Extending the optical reach with dispersion compensators
- Building cost effective add and drop networks



ORDERING INFORMATION

FOM-PL-300-0001

Passive WDM Solutions - PL-300

CALL FOR PRICING

DCM		Environmental	
Fiber Type	G.652	Operating Temperature	-50C to +650C (+230F to +1490F) Operational
Fiber Span	20Km - 200Km	Physical Dimensions	
Wavelengths Range	1527nm-1567nm	Size	1.77" (1 RU) (H) x 17.32" (W) x 9.05" (D) 45 mm (H) x 440mm (W) x 220 mm (D)
Residual Dispersion	< +/- 2%	Weight	3.5Kg (Max)
Max Insertion Loss	3dB	Splitters/Combiners	
PMD	<1.2ps	Insertion Loss - DWDM	1.5dBm
Standard	ITU G.671	Insertion Loss - CWDM	0.8dBm
Max Insertion Loss	3dB	Insertion Loss - 1310nm	<1.5dBm
PMD	<1.2ps	Standards	ITU G.671
Standard	ITU G.671		

PL-300 CWDM

Standards	ITU G.694.2, TU G.671					
Description	Order Code CWDM	# MUX WLS	COM Fiber	MUX 1 [nm]	MUX 2 [nm]	Insertion Loss
CWDM 4ch Mux/Dmux	CWDM-1M-4W-1C-2F	4	Dual Fiber	1471-1531		<4db
CWDM 8ch Mux/Dmux	CWDM-1M-8W-1C-2F	8	Dual Fiber	1471-1611		<4db
CWDM 16ch Mux/Dmux	CWDM-1M-16W-1C-2F	16	Dual Fiber	1311-1611		<6db
2 x CWDM 4ch Mux/Dmux	CWDM-2M-4W-2C-2F	4	Dual Fiber	1471-1531	1471-1531	<4db
2 x CWDM 8ch Mux/Dmux	CWDM-2M-8W-2C-2F	8	Dual Fiber	1471-1611	1471-1611	<4db
2 x CWDM 16ch Mux/Dmux	CWDM-2M-16W-2C-2F	16	Dual Fiber	1311-1611	1311-1611	<6db
Single Fiber CWDM 8ch Mux (4 services)	CWDM-1M-8W-1C-1F	8	Single	1471-1611		<4db
Single Fiber CWDM 16ch Mux (8 services)	CWDM-1M-16W-1C-1F	16	Single	1311-1611		<6db
2 x Single Fiber CWDM 8ch Mux (2x 4 services)	CWDM-2M-8W-2C-1F	8	Single	1471-1611	1471-1611	<6db
2 x Single Fiber CWDM 16ch Mux (2x 8 services)	CWDM-2M-16W-2C-1F	16	Single	1311-1611	1311-1611	<6db

PL-300 DWDM

Standards	ITU G.694.2, TU G.671		Spacing- 100GHz		Wavelengths Range- C Band	
Description	Order Code CWDM	# MUX WLS	COM Fiber	MUX 1 [nm]	MUX 2 [nm]	Insertion Loss
DWDM 4ch Mux/Dmux	DWDM-1M-4W-1C-2F	4	Dual Fiber	CH28-CH31	MUX 2 [nm]	<4db
DWDM 8ch Mux/Dmux	DWDM-1M-8W-1C-2F	8	Dual Fiber	CH28-CH35		<4db
DWDM 16ch Mux/Dmux	DWDM-1M-16W-1C-2F	16	Dual Fiber	CH20-CH35		<6db
DWDM 32ch Mux/Dmux	DWDM-2M-32W-1C-2F	32	Dual Fiber	CH20-CH51	1471-1531	<7db
DWDM 40ch Mux/Dmux	DWDM-2M-40W-1C-2F	40	Dual Fiber	CH20-CH59	1471-1531	<7db
2 x DWDM 4ch Mux/Dmux	DWDM-2M-4W-2C-2F	4	Dual Fiber	CH28-CH31	CH28-CH31	<4db
2 x DWDM 8ch Mux/Dmux	DWDM-2M-8W-2C-2F	8	Dual Fiber	CH28-CH35	CH28-CH35	<4db
2 x DWDM 16ch Mux/Dmux	DWDM-2M-16W-2C-2F	16	Dual Fiber	CH20-CH35	CH20-CH35	<6db
Single Fiber DWDM 8ch Mux (4 services)	DWDM-1M-8W-1C-1F	8	Single	CH28-CH35		<4db
Single Fiber DWDM 16ch Mux (8 services)	DWDM-1M-16W-1C-1F	16	Single	CH20-CH35		<6db
Single Fiber DWDM 32ch Mux (16 services)	DWDM-1M-32W-1C-1F	32	Single	CH20-CH51		<7db
2 x Single Fiber DWDM 8ch Mux (2x 4 services)	DWDM-2M-8W-2C-1F	8	Single	CH28-CH35	1471-1611	<6db
2 x Single Fiber DWDM 16ch Mux (2x 8 services)	DWDM-2M-16W-2C-1F	16	Single	CH20-CH35	CH20-CH35	<6db
2 x Single Fiber DWDM 8ch Mux (2x 8 services) Red/Blue	DWDM-2M-16W-1C-1F	16	Single	CH21-CH36	CH45-CH60	<6db

WDM SUB-10 SOLUTIONS - PL-400



Highly flexible metro C/DWDM platform for transport of storage, data, voice, and video applications over dark fiber and C/DWDM networks. PL-400 is designed primarily as an efficient C/DWDM transport device, and is typically deployed as a CLE (Customer Located Equipment) in enterprise campus environments and in central offices or as service demarcation point for dark fiber provider and carriers. The PL-400 supports up to 8 high-speed services (2Mbps-4.25Gbps). Each service is configured independently using PacketLight's user-friendly Web-based management tool.



FEATURES:

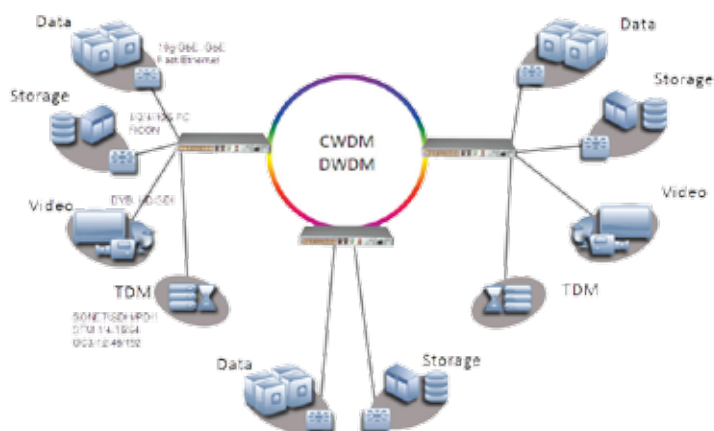
- CWDM/DWDM Multiplexing of 8 Multi-rate from 2Mbps up to 4.25G client interfaces
- Flexible multirate interfaces support
- GbE, Fast Ethernet, 1/2/4G FC, OC3/STM1, OC12/STM4, OC48/STM16, OTU-1, ESCON, DVB-ASI, SMP-TSDI
- Support for SNMP management and integration into EMS and 3rd party management tools
- Scalable Solution up to 32 Wavelengths
- Built-in EDFA, Mux/DeMux and management channels
- Built-in Performance Monitoring (FC, GbE, STM1/4/16, OC3/12/48)
- Bidirectional 3R ensuring error free operation over distance
- Up to two sets of 4:1 GbE Muxponders
- Supports ring, point to point and regeneration topologies
- Support 1+1 facility protection
- Two embedded OSC for management

System		DWDM Link	
Topology	Point-to-point, Ring, Linear ADM Dual or Single Fiber	Wavelength	ITU-T G.694.1 Channels 15-60, 100GHz spacing
Muxponder	2x 4GbE 850/1310nm	Optical Supervisory Channel	1490nm, 1510nm
Transport Network Medium	Metro CWDM/DWDM / Dark Fiber	Optical Reach	400Km for 1.25Gbps, 200Km for 2.66Gbps, 80Km for 4.25Gbps
Software Upgrade	Traffic Hitless – dual image	Optical Power Output	0dBm (min) to +4dBm (max)
Protection	1+1 Facility	Sensitivity	-28 dBm APD
Product Options		Optical Monitoring	Tx & Rx power
Transponder	850/1310nm to C/DWDM, 3R, 4/8 wavelengths Mux & Demux	Link Attenuation	<4dB (Mux + DeMux)
Transponder + Booster Amp	850/1310nm to DWDM, 3R, 4/8 wavelengths Mux Demux, 1/2 EDFA (Booster, Pre-Amp)	CWDM Link	
Regenerator	C/DWDM to C/DWDM 3R, 8 wavelengths 2X Mux &, 2X Demux & 2X EDFA	Wavelength	ITU-T G.694.2 1270-1610nm, 20nm spacing
Physical Dimensions		Optical Supervisory Channel	For 8 Channels- 1310nm, 1330nm For 16 Channels- 1270nm, 1290nm
Size	1.77" (1 RU) (H) x 17.32" (W) x 9.05" (D) 45 mm (H) x 440mm (W) x 230 mm (D)	Optical Reach	120Km for 1.25Gbps, 80Km up to 4.25Gbps
Weight	5.5Kg (Max)	Optical Power Output	0dBm (min) to +5dBm (max)
Mounting	19", ETSI and 23"	Sensitivity	-28dBm APD, -18dBm PIN
Environmental		Optical Monitoring	Tx & Rx power
Operating Temperature	-50 C to 50o C (+23o F to +122o F) Operational	Link Attenuation	<4dB (Mux + DeMux)
Humidity	5% to 85% RHI		

ORDERING INFORMATION

FOM-PL-400-0001 WDM Sub-10 Solutions - PL-400

CALL FOR PRICING



NETWORK CAMERAS



i-Pro intelligent and professional IP video security solutions make your network better. Our new i-Pro Series combines Panasonic performance and quality with the latest advancements in IP technology. And with a growing line of IP cameras, network video recorders, video servers, and management software, you can design the system configuration that best meets your needs today – with an eye on expansion tomorrow. Now that's security you can take into the future. Panasonic i-Pro. It's what's on your network that counts.

PANASONIC WEATHER RESISTANT DOME NETWORK CAMERA

WV-NW964

Features

- Super Dynamic III delivers 128x dynamic range ensuring accurate image reproduction in any environment
- Progressive output for smooth images
- 360° endless panning (0.065°/s - 400°/s)
- 0.5 lux min. illumination color, 0.04 lux B/W
- Auto tracking, auto image stabilizer
- Digital slip ring ensures picture quality
- Dual MPEG-4 and JPEG streaming
- 30x optical zoom, 10x electronic (300x total)
- Built-in SD memory card slot for FTP back-up



OPTIONAL ACCESSORIES AND SUPPLIES

WV-Q122 Wall Mount Bracket

Call for price



PANASONIC DOME NETWORK CAMERA

WV-NS202A

Features

- Super Dynamic III provides 128x dynamic range ensures accurate image reproduction in any environment
- Progressive output for smooth images of moving objects and superb color reproduction
- 22x optical zoom for accurate capture of objects from long distances
- PoE for transmission of power and signals over the same data cable
- 0.7 lux min. illumination color, 0.5 lux B/W
- Drag-in SD memory card slot for FTP back-up
- Video Motion Detector with 4 programmable detection areas and 3 sensitivity levels
- Auto tracking: Pan and tilt automatically controlled to keep moving objects centered in screen



Call 877.529.9114 for FiberOptic.com's full line of Panasonic Equipment!

Super Dynamic III Dome Network Camera

ORDERING INFORMATION

WV-NS202A Dome Network Camera \$1,600.00

The Package includes: WV-NS202A Camera, CD-ROM (1 pc.), Installation Guide (1 pc.), The IP setup software, the viewer software and the network operating instructions (PDF) are included on the CD-ROM. (1 pc.), Mount Bracket (w/safety wire) (1 pc.), Connector for 24 V AC Fixing Screw (2 pc.), Decorative Cover (1 pc.), DC 12 V Power Cord Plug (1 pc.), Code Label (1 pc.).

OPTIONAL ACCESSORIES AND SUPPLIES

WV-Q153	Inner Dome Cover	\$58.00	
WV-Q152C	Clear Ceiling Mount Brackets	\$151.00	
WV-Q152S	Smoke Ceiling Mount Brackets	\$151.00	
WV-Q151C	Clear Embedded Ceiling Mount Brackets	\$255.00	
WV-Q151S	Smoke Embedded Ceiling Mount Brackets	\$255.00	
WV-Q150C	Clear Wall Mount Brackets	\$264.00	
WV-Q150S	Smoke Wall Mount Brackets	\$264.00	
WV-Q105	Direct Ceiling Installation	\$129.00	
PODV7CWNS	Outdoor Wall Mount Vandal Housing	\$936.00	

PANASONIC NETWORK DISK RECORDER

WJ-ND300A

Network Disk Recorder with expandable capacity for digital image data from up to 32 Network Cameras

Features



- MPEG-4 and JPEG multi format.
- Up to 32 network cameras can be connected and recorded
- Various Recording Mode
- Various alarm sources
- Panasonic Camera control
- Flexible Playback Controls
- Various display mode
- Eight Quad screens are fully programmable
- Filtered Search



MPEG-4/JPEG



OPTIONAL ACCESSORIES AND SUPPLIES

WJ-NDB301	Optional RAID5 Board	\$1,276.00	
WJ-HDE300/1000	Extension Unit (1000GB)	\$4,451.00	

ORDERING INFORMATION

WJ-ND300A/1000V	Network Disk Recorder, 1000GB Capacity (500GB Base Removable Drive)	\$7,091.00
WJ-ND300A/2000V	Network Disk Recorder, 2000GB Capacity (500GB Base Removable Drive)	\$7,818.00

The Package includes: WJ-ND300A Disk Recorder, CD-ROM, Installation Guide, Power Cord for NTSC model, Power Cord for PAL model, Rack Mount Bracket (2 pc.), Rack Mount Bracket Fixing Screw (4 pcs.), Hard Disk Drive Fixing Screw (12 pcs.).

PANASONIC NETWORK VIDEO RECORDER

WJ-ND200 NVR WITH TWO, 160GB REMOVABLE HDDS (TOTAL CAPACITY=320GB)

Network Video Recorder with removable HDD for digital image data from up to 16 Network Cameras





Features

- MPEG-4 and JPEG multi format.
- Up to 16 network cameras can be connected and recorded
- Various Recording Mode
- Various alarm sources
- Panasonic Camera control
- Flexible Playback Controls
- Various display mode
- Four Quad screens are fully programmable
- Filtered Search



MPEG-4/JPEG

OPTIONAL ACCESSORIES AND SUPPLIES

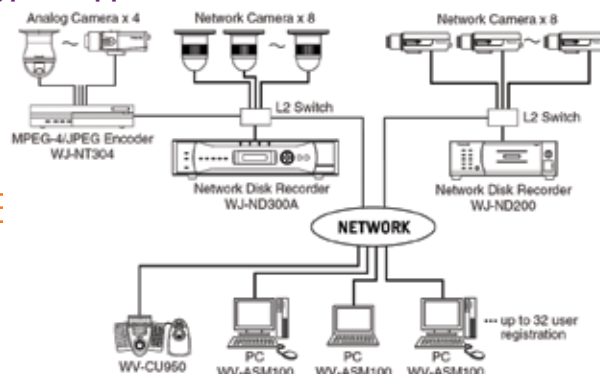
WV-Q200P	Rack Mount Bracket for WJND200	\$136.00	
WV-Q201	Vertical Stand	\$111.00	
WJ-HDD16	Removable HDD (160 GB)	\$500.00	
WJ-HDC20	USB Cradle For Removable HDD	\$300.00	

ORDERING INFORMATION

WJ-ND200/160	Network Video Recorder, 160GB Capacity (160GB Base Removable Hard Drive)	\$3,700.00
WJ-ND200/320	Network Video Recorder, 320GB Capacity (160GB Base Removable Hard Drive)	\$4,646.00

The Package includes: WJ-ND200 Disk Recorder, CD-ROM (1 pc.), Installation Guide (1 pc.), Warranty (only for NTSC model), Power Cord for NTSC model (1 pc.), Power Cord for PAL model (2 pc.), Key (2 pc.), Brace (for the power cord) (1 pc.).

Typical Application



ORDERING INFORMATION

WV-ASM100	Management/monitoring software for recorders	\$1,727.00
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PANASONIC MANAGEMENT SOFTWARE

- Control up to 100 Panasonic Recorders
- Multiple displays (operation, live, maps)
- MPEG-4 live viewing and alarm message pop-up
- Panasonic PTZ Camera control
- Independent camera/encoder support



CONVERSIONS & TERMS



Conversions & Terms

METRIC/ENGLISH CONVERSIONS

ENGLISH MEASURE X FACTOR = METRIC MEASURE

in (inches)	x	25.4	=	mm (millimeters)
in (inches)	x	2.54	=	cm (centimeter)
ft (feet)	x	0.305	=	m (meters)
mi (miles)	x	1.608	=	km (kilometers)
lbf (pound force)	x	4.444	=	N (newtons)
lbf-ft (foot pounds)	x	1.355	=	N-m (newton/meter)
lbf/in (pounds/force/inch)	x	1.751	=	N/cm (newtons/ centimeters)
lb (pounds)	x	0.454	=	kg (kilograms)
lb/1000 ft (pounds/thousand feet)	x	1.490	=	kg/km (kilograms/kilometer)
*F (degree Fahrenheit)	- 32, then x 0.555		=	*C (Celsius)

METRIC MEASURE X FACTOR = ENGLISH MEASURE

mm (millimeters)	x	0.0394	=	in (inches)
cm (centimeter)	x	0.394	=	in (inches)
m (meters)	x	3.281	=	ft (feet)
km (kilometers)	x	0.622	=	mi (miles)
N (newtons)	x	0.225	=	lbf (pound force)
N-m (newton/meter)	x	0.738	=	lbf-ft (foot pounds)
N/cm (newtons/ centimeters)	x	0.571	=	lbf/in (pounds/force/inch)
kg (kilograms)	x	2.205	=	lb (pounds)
kg/km (kilograms/kilometer)	x	0.671	=	lb/1000 ft (pounds/thousand feet)
*C (Celsius)	x 1.8 then + 32		=	*F (degree Fahrenheit)

DECIMAL PREFIXES

G or giga	=	10 ⁹ (1,000,000,000 or 1 billion)
M or mega	=	10 ⁶ (1,000,000 or 1 million)
K or Kilo	=	10 ³ (1,000 or 1 thousand)
m or milli	=	10 ⁻³ (1/1,000 or 1 thousand)
µ or micro	=	10 ⁻⁶ (1/1,000,000 or 1 millionth)
n or nano	=	10 ⁻⁹ (1/1,000,000,000 or 1 billionth)

COLOR CODING CABLE & JACKETS

Colors of cable jackets for identifying indoor fiber optic cable are not standardized. Typical colors are as follows:

Premises Cables

- Orange or Gray Multimode Fiber
- Yellow Singlemode Fiber

Outside Plant Cables

These are typically black to prevent UV radiation damage.

COLORS AND CODES

Fiber Color codes are specified by TIA/EIA 598-A. In loose tube cables, this color code will be used for tubes as well as fibers within the tubes and subgroups. See the chart to the right.

TUBE (OR FIBER) NUMBER	COLOR
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink (Rose)
12	Aqua

ACRONYMS AND DEFINITIONS

BER	Bit Error Rate	FTTH	Fiber To The Home	PON	Passive Optical Network
CD	Chromatic Dispersion	Gbps	Gigabits per second (1,000 Mbps)	RX	Receiver
CW	Continuous Wave	HFC	Hybrid Fiber/Coax	SDH	Synchronous Digital Hierarchy (European telecommunication)
CWDM	Coarse Wavelength Division Multiplexer	IC	Integrated Circuit	SMF	Single Mode Fiber
dB	Decibel	IEEE	Institute of Electrical and Electronics	SONET	Synchronous Optical Network (US telecommunications)
dBm	Decibel with 1 mWatt reference level	IP	Internet Protocol	Tbps	Terabits per second
DSF	Dispersion Shifted Fiber	LAN	Local Area Network	TDM	Time Division Multiplexing
DWDM	Dense Wavelength Division Multiplexing	LED	Light Emitting Diode	T/R	Transmit/Receive
EDFA	Erbium-Doped Fiber Amplifier	MAN	Metropolitan Area Network	TX	Transmit/Transmitter
EIA/TIA	Electronics Industry Association/ Telecommunications Industry Association	Mbps	Megabits per second (1,000 Kbps)	UHF	Ultra-High Frequency
EMI	Electromagnetic Interference	MUX	Multiplexer	UV	Ultraviolet
FCC	Federal Communications Commission	NZDF	Nonzero Dispersion Fiber	VoIP	Voice Over IP
FDDI	Fiber-Distribution Data Interface	OFA	Optical Fiber Amplifier	WAN	Wide Area Network
FOA	Fiber Optic Amplifier	OTDR	Optical Time-Domain Reflectometer	WDM	Wavelength Division Multiplexing
FTTC	Fiber To The Curb	PD	Photo Diode	WPON	WDM PON
FTTD	Fiber To The Desk	PHY	Physical Layer (WLAN)		
		PMD	Polarization-Mode Dispersion		

NEW

Exclusively to FiberOptic.com



ONLINE TRAINING

Powered by  **digital CHALK**

We currently offer our training via e-learning software and traditional classroom based training. For professionals with limited time and travel ability, some of our entry level courses are offered online while some of our more advanced offerings can be taken using a combination of online preparation and classroom based hands-on workshops.



Online/Classroom Combination Courses

Combination courses are currently offered with an online self-paced lecture and a hands-on workshop. This innovative approach to Fiber Optic training and certification allows students to minimize expense, time and travel while learning at their own pace on their own schedule (by using online e-Learning to complete the lecture portion of the class.) Students may then complete the hands-on portions of the class at any of our scheduled sessions around the world (and can review the material within one year of registering for the course.)

If online training is not ideal for your learning style, a more traditional instructor-lead lecture or questions and answer section is available upon request depending upon location and the size of the class.



Online Only Courses

If a course is being offered online on our e-Learning website no hands-on training is required, although some students find an on-site lecture helpful. If you wish to take this course from the comfort of your home or office, please visit our registration page to request login information. This course will be available immediately.

This on-line approach to Fiber Optic training and certification allows students to minimize expense, time and travel while learning at their own pace on their own schedule. If you wish to take it on-site instead, please contact one of our representatives at training@fiberoptic.com. If no nearby locations are offered, please use the online option or contact us about scheduling custom training.



Classroom Only Courses

These courses require a hands-on portion and must be taken at one of our training locations. Currently an online option for these courses is not available.

Companies Trained By FiberOptic.com



LUTRON



U.S. AIR FORCE

- Alliance Systems
- Blue Water Survey
- CBS News
- COX Communications
- Day-timers
- Department of Defense
- Department of State
- Disney Worldwide Service
- FBI
- FAA
- IBEW
- ITT
- Lutron
- Metropolitan Transit Authority
- Modern Home Electronics
- NBA Entertainment
- Pennsylvania Department of Transportation
- Service Electric Cable Television
- Telebarbados
- Tennessee Electric
- Tri-M Group
- United States Air Force
- United States Army
- Wheeling Hospital

TRAINING COURSES

Installer Training Courses

Installer level courses are our new to intermediate level courses designed for students who have either no experience, limited experience or who wish to brush up on their skills. If a student is new to the telecommunications industry it is recommended that they start with a fundamentals level course from our installer offerings.

TR-CFI	<i>Certified Fiber Installer</i>	\$1,350
Certified Fiber Installer training is designed for those who layout, install or maintain fiber optic cabling systems. It identifies you as an installer able to demonstrate a practical knowledge of fiber optic theory, codes, standards and practices widely accepted in the fiber optics industry.		
TR-FTTX	<i>FTTx Installer</i>	\$1,350
In this course, we will discuss various network designs, installations, maintenance and troubleshooting. Students will learn the difference between an Active and a Passive Optical Network (PON). The advantages and disadvantages of each system and how they are currently being implemented in the field. Students will learn splicing, testing and installing techniques for an FTTx network.		
TR-PWSI	<i>Premise Wiring Systems Installer</i>	\$1,350
The Premise Wiring Systems Installer training is designed for those who design, install or maintain copper and fiber optic systems in commercial buildings and outer facilities. It identifies you as an installer who demonstrates a practical knowledge of copper and fiber optic theory, codes, standards and practices widely accepted in commercial building and customer-owned outside plant (campus environment).		
TR-IVS	<i>Panasonic i-PRO Installation</i>	\$1,350
In this course, which focuses on interactive video surveillance systems, students will learn how they or can monitor any location where power and an ethernet network are accessible. Student will learn how to setup motion detection, advanced scheduling, e-mail notifications, administrative privileges.		
TR-WIT	<i>Wireless Network Installation & Testing</i>	\$1,500
This course is designed to give students a firm understanding of WLAN security. Hands-on access point and client adaptor labs provide attendees with experience setting up and securing a wireless LAN. Presentation material will explore WLAN design concerns, essential equipment, AP configuration, and site survey techniques.		

Master Training Courses

Master level courses are our most advanced level courses designed for students who have either taken one of our technician level courses or who have commensurate industry experience.

TR-MFS	<i>Master in Splicing</i>	\$1,350
The Master in Splicing program is the first of its kind in the telecommunications field. It is designed to provide an unmatched, real-life experience with solid classroom instruction using various labs designed around specific techniques. The Master in Splicing training is a perfect compliment for experienced installers and technicians. Advanced hands-on design labs along with advanced fusing splicing techniques are featured in this course.		
TR-MFT	<i>Master in Testing</i>	\$1,350
Using various labs designed around specific testing scenarios, the Master in Testing training is a perfect compliment for experienced fiber optic installers and technicians. This course features advanced hands-on testing labs demonstrating advanced testing procedures and techniques.		
TR-MFOT	<i>Master Technician</i>	\$3,525
The Master Fiber Optic Technician training is the most comprehensive certification training available. It is our complete Fiber Optic Training; encompassing all aspects of our master splicing and testing programs into an extensive five-day certification experience that qualifies a Technician as a truly unique "Craftsmen". It is designed to provide an unmatched, real-life experience with solid classroom instruction using various labs designed around splicing, and testing scenarios.		

Visit **www.TheFiberSchool.com**
to sign up for training now!

For an additional \$150 each, students may choose to receive an ETA Certification and/or TheFiberSchool.com certification upon successful completion of the course and exam.

Prices do not include logistics fee for away classes or certification.



ETA Certification

ETA is widely known for their electronics certification programs, accredited by the International Certification Accreditation Council (ICAC). ETA is considered an industry standard certification.

Technician Training Courses

Technician level courses are our intermediate to advanced level courses designed for students who have either taken one of our introductory courses or who have commensurate industry experience.

TR-FOT	<i>Fiber Optic Technician</i>	\$2,350
The Fiber Optic Technician course is designed for those who wish to build upon the knowledge gained in the Certified Fiber Installer course, prior to taking the Master Fiber Optic Technician course. This course provides the opportunity to learn and perfect the more advanced field skills that the Fiber Optic Technician needs on the job.		
TR-FCT	<i>Fiber Characterization Training</i>	\$3,995
This three-day course will provide you with all the knowledge and requirements that are needed to effectively characterize your optical infrastructure. You will learn about all the requirements for engineering and for qualifying the optical fiber links that utilize specific bit rates in regards to both metro and long haul spans.		
TR-OSP	<i>Outside Plant Technician</i>	\$2,350
The Fiber Optic Outside Plant Technician is designed for workers with fundamental fiber optic knowledge or installer certification. It focuses specifically on outside plant installations (OSP). OSP includes communications such as building to building or long haul telecommunications (including customer-owned OSP).		
TR-PWST	<i>Premise Wiring Systems Technician</i>	\$2,500
The Premise Wiring Systems Technician training expands a student's knowledge level of copper and fiber optic cabling used in commercial buildings and customer-owned outside plant environments (Campus). This training incorporates hands-on labs including multi-vendor copper and fiber terminations, and expanded fiber optic splicing and testing labs. Students will learn skills which are applicable to all the functions required to safely and competently install copper and fiber communications cabling in the premise environment.		
TR-WCB	<i>Wireless Network Cellular Backhaul</i>	\$1,995
With rising demand for mobile broadband services, network operators are seeing sharp increases in bandwidth requirements. The cellular network infrastructure must evolve to support newer technologies that require more and more bandwidth. Mobile service providers need to gain real-time, insight into their network performance in order to manage existing architectures and ensure a higher quality of service regardless of the underlying technology.		

Online Only Training Courses

Online training saves the student time, travel, and expense by allowing them to either complete an entire course from the comfort of their own home or by allowing them to complete a portion of the course prior to the hands-on components.

TR-FOF	<i>Fiber Optic Fundamentals</i>	\$600
Fiber Optic Fundamentals training is designed for new or experienced workers who desire a fundamental knowledge of fiber optic theory, codes, standards and practices widely accepted in the telecommunications industry today. This course is an excellent starting point for those who install, design, or supervise the installation of fiber optic systems.		
TR-PWSF	<i>Premise Wiring Systems Fundamentals</i>	\$600
The Premise Wiring System Fundamental course is designed for new or experienced personnel who desire a fundamental knowledge of copper and fiber optic theory, codes, standards and practices widely accepted in commercial buildings and customer-owned outside plant facilities. An excellent course for those who install, supervise, design and/or oversee the installation of copper and fiber premise wiring systems in commercial buildings.		
TR-FCB	<i>Fiber Characterization Basics</i>	\$1,995
This online course will provide students with an introduction to fiber characterization and allow students to effectively communicate and interpret issues found during testing of optical infrastructure. Students will learn about the theory behind PMD, CD and attenuation profiling, and how to interpret the results obtained during testing.		
TR-WNF	<i>Wireless Network Fundamentals</i>	\$1,350
This course is designed to give students a firm understanding of radio frequency theory, 802.11 standards, WLAN topologies, basic antenna theory and an introduction to WLAN security. Hands-on access point and client adaptor labs provide attendees with experience setting up and securing a wireless LAN. Presentation material will explore WLAN applications in specific markets, WLAN topologies and design concerns, essential equipment, AP configuration, and site survey techniques.		



TheFiberSchool.com Certification

Going above and beyond industry standards, TheFiberSchool.com certifications combine a typical multiple-choice certification exam with a hands-on practical exam demonstrating knowledge in the latest tools and techniques.

TR-CUST Custom Training Course

FiberOptic.com will give you the exact training your company needs, we will train you and your employees exactly as needed to insure your field technicians will perform in a highly professional manner on the job. Most of our OnSite course offerings are typically 4 days in length and feature agendas and hands-on exercises that can easily be adapted to your specific needs. In many cases these needs can be met within the standard 4 day course offerings but clients often require an additional day to address specific needs such as:

- **"Hands-On":**

- You need your crafts people prepared to begin working immediately with the practical hands-on experience gained in class on the equipment you use.
 - With your specific connector
 - With your specific fusion splicer
 - With your specific splice closure
 - With your specific OLTS or OTDR.

- **Mixed agendas:**

- You construct a fiber optic course that meets your needs then add items from our available certification courses.
 - Cover basic copper cabling common to Premise Wiring Systems
 - Cover basic Audio Visual systems
 - Cover basic CCTV, CATV, FTTx topics
 - Cover specific topics from our Outside Plant course
 - Cover additional OTDR techniques

- **Experience:** Our skilled instructors and course developers have experience training all kinds of personnel including AT&T, Verizon, US Military, Government agencies, End Users and all categories of contractors enabling FiberOptic.com to easily customize any course.

- **Take Action:**

1. Select the course and certification desired
 - a. Select a topic or issue you desired to be added
2. Contact FiberOptic.com and request an OnSite Custom quote
 - a. How many students?
 - b. Your location or a location near you?
 - c. Select a desired date that meets your needs and schedule
3. Review our proposal and book your training OnSite with FiberOptic.com



Client Testimonials

"I enjoyed the personalized class. The one on one time with the instructor and the hand on training were exactly what I needed. The instructor had a vast knowledge and was courteous and helpful."

- W.M., Florida

"The course was great for me, the hands on portions made the difference. The instructor did a great job and really knew the equipment and was able to answer all of my questions."

- R.C., Virginia

PRICING COURSES & CERTIFICATIONS

TR-CUST FiberOptic.com Custom Training
(Includes course materials)

Custom course prices can vary depending on depth of material and number of days.
Call 877-529-9114 for an individualized quote.

TRAINING COURSES

ON-SITE Training

Take advantage of our most efficient and cost effective way to train you and your valuable employees. FiberOptic.com can bring any of its existing courses and certification exams to your location or to a facility near you.

It is always difficult to take valuable employees out of the field to attend the necessary training courses needed to obtain the certifications required to compete in today's fast paced competitive markets. If your employees are current certification holders, just keeping track of and scheduling their courses to get the required CEC's (Continuing Education Credits) is difficult. In addition ensuring your company field crafts people are scheduled into the right courses to get and keep the individual certifications that your company requires and your clients expect is a challenge.

All this while getting the most out of your training budget.

Let FiberOptic.com help you meet your training goals with our On-Site training because it is:

Convenient and Flexible:

- You select the course, the start time, the end time, the date, the location
- We bring everything to you:
 - Equipment (or use your equipment)
 - Training manuals, lab exercises and a qualified instructor
 - Certification Exams.
- Your crafts people remain close to the field for unforeseen emergencies

Cost Effective:

- Reduce your company's travel expenses
- Increase your productivity and save time
- Save money - We'll help you stay within your Training budget

Take Action:

1. Select the course and certification
2. Contact FiberOptic.com and request an OnSite quote
 - a. How many students?
 - b. Your location or a location near you?
 - c. Select a desired date that meets your needs and schedule
3. Review our proposal and book your training OnSite with FiberOptic.com

PRICING COURSES & CERTIFICATIONS

Custom course prices can vary depending on depth of material and number of days.

Call 877-529-9114 for an individualized quote.



Custom Training - Rosebel Goldmine, Suriname

The Rosebel gold mine was in need of real world, in-line fiber training. The catch, the mine is in the middle of the Amazon! The unique requirements of maintaining a fiber optic infrastructure was no problem for FiberOptic.com. FiberOptic.com was able to develop hands-on training based on field applications.



Custom Training - Fallujah, Iraq

Bechtel the world's No. 1 choice for engineering, construction, and project management selected FiberOptic.com as the preferred fiber optic training vendor to create a customized class to train technicians in Fallujah, Iraq.



Fiber Sentry

Are you protected from Fiber Damage?

Real-time network status and performance

Built to increase workforce productivity and facilitate the management of large optical networks with fewer technicians, FIBER SENTRY combines remote testing, network monitoring and service provisioning to deliver high-quality network performance.

FIBER SENTRY increases customer satisfaction through improved network availability, simplifies the management of service level agreements (SLAs) and quality of service (QoS), and provides customers with precise information on service status.

The system also enables efficient asset management by assuring high performance levels and the readiness of fiber optic cable for use when required.

FIBER SENTRY continuously monitors the network, alerting operators and managers to faults as they occur. Events are logged, and details regarding faults, such as location and type, are provided to the network management center where the appropriate maintenance teams are automatically alerted.

FIBER SENTRY's Performance Monitoring Services encompass the equipment, resources and highly skilled staff necessary to help you understand, analyze and optimize your LAN, WAN or ATM network fast, with minimal interruption to your everyday operations. FIBER SENTRY engineers focus on providing a broad spectrum of objective analyses ranging from, but not limited to capacity planning, network configuration evaluations, network migration and application deployment assessments, network optimization audits and troubleshooting. Performance Monitoring services are customized to fit your exact needs.

Fast Alert Response

Trace Analysis:

FIBER SENTRY's Trace Analysis Service provides an analysis of all your OTDR traces and quickly provides a clear, concise report detailing all necessary OTDR trace data to properly commission your fiber optic cables. This is especially important when conducting dual wavelength, bi-directional testing of fiber optic cables that results in hundreds or thousands of OTDR trace signatures. Trace analysis can be conducted on any size cable.

Spectral Analysis:

FIBER SENTRY's Spectral Analysis Service provides an analysis of your DWDM network that enables you to optimize the operation, upgrade and performance of your DWDM system, ensuring maximum performance and reliability. FIBER SENTRY takes into consideration such parameters as Optical Signal to Noise Ratio, System Gain Tilt and Total Power in order to optimize the system and avoid potential non-linearities.

SONET/SDH Testing:

SONET/SDH rings are still a dynamic design implemented in today's fiber rings to provide redundancy and diversity. However, the proper test times and required equipment can be quite costly, both in capital and operational expenses. FIBER SENTRY's SONET/SDH Testing Service can help alleviate this situation by providing the equipment, engineers and time required to properly test and exercise your network. Our proactive approach saves you time and money and ensures reliable service.

At A Glance:

- Fibers are Continuously Monitored, 24x7x365
- Quickly identify and locate fiber faults and degradations.
- ONMS has user defined fault thresholds (typically set at 1 dB) that will identify degradations before they become service affecting outages.
- Reduce SLA fines by quickly locating faults and identify degradations before they become service affecting outages.
- Dispatch to fix, not to find
- Reduce truck rolls
- General desire to conduct Test & Maintenance Centrally and Remotely
- Improve overall Customer Satisfaction/Experience.

24/7 Monitoring

Fiber Characterization:

FIBER SENTRY's Fiber Characterization Service is a series of tests taken on a fiber optic span to determine the integrity of the fiber, installation practices and performance of a desired transmission rate and/or Service. FIBER SENTRY's Fiber Characterization team is staffed to be able to respond to your needs on a timely basis. Analysis of the acquired data and corresponding reports are provided almost immediately after the testing is completed. The FIBER SENTRY team has the expertise to provide real-time, on-site corrective action when problems are identified. For example, if the fiber plant under test has any deficiencies, the FIBER SENTRY team is often able to assist you with immediate resolution by either dealing with the issue directly or providing root cause analysis. The result is an optimized network without having to redeploy crews at a later date, adding to the time needed for project completion. Typical problems resolved on-site by FIBER SENTRY engineers include Reflectance Optimization and Loss Optimization. The number one failure or marginal specification in the field is Optical Return Loss (ORL). Adtell Integrations engineers can work with you to isolate and correct or improve the major contributors to ORL while on-site.

Network Optimization Services:

The need to deliver new services, on-time and on-budget, while optimizing your existing network has never been greater. Working with your staff, FIBER SENTRY's Network Optimization Services enable you to reduce your time to market, lower equipment costs, reduce network downtime and plan for future upgrades. FIBER SENTRY offers a wide variety of Network Optimization Services including, but not limited to Fiber Characterization, Trace Analysis and Gigabit Ethernet Testing.

Setup and Installation Services:

FIBER SENTRY's Network Setup and Installation Services can provide the resources to build or expand your network. We help you choose the right design, technology and hardware that suits your business needs.

- ONT and ONU placement for FTTP projects
- Premise wiring for FTTP projects
- Emergency Maintenance agreements
- Network Audit Services (what do we have in the field?...)



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