YAMASAKI

Optical Technology

Dependability & Reliability In One Name

WORK SMARTER - NOT HARDER

Efficient, Reliable & Affordable

YAMASAKI Y90

FIBER OPTIC FUSION SPLICER

The Yamasaki Y90 Fusion Splicer is a small portable machine designed for use in FTTH, making every day splicing easy. It features a simple navigation pad, fast heat & splice times & an invertible bright LCD screen.

- Y90 Fusion Splicer
- Y17 Fiber Cleaver
- Buffer Strippers
- Cleaning Brush
- Fibre Tweezers
- AC Power Adaptor
- 12V Adaptor
- Internal Battery
- Internal Battery
- Carry Case
- Shoulder Strap
- 2 Sets of Electrodes
- Operators Manual
- Cooling Tray
- Screen Protector
- Calibration Certificate
- 24 months Warranty

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Yamasaki Y90 Fusion Splicer

The Yamasaki Y90 Fusion Splicer is a small, portable machine designed for use in FTTH, making everyday splicing easy. The fusion splicer is used to connect 2 cables together with a low loss of 0.02db (SM) and 0.01db (MM).

The Y90 features a simple navigation pad and an invertible super bright 5 inch colour LCD screen. Utilising the latest in core alignment technology, the Y90 gives a novice user ability to perform the best quality of splice.

The Y90 Fusion Splicer package comes with a highly durable storage case and numerous accessories; it also comes with an impressive 24 months warranty.

Core alignment

The Y90 uses core alignment for the most accurate splicing. Typical loss is 0.02db for singlemode and 0.01db for multi-mode.

Easy to use

Easy to use directional keypad for navigating the menu & adjusting splice parameters.

Multilingual

Interactive menu available in 7 languages: English, Italian, German, Portuguese, Norwegian, Spanish, Russian.

Battery Power

User is able to see how much power remains at the press of a button. Battery can last for up to 180 Heat/Splice cycles per charge.

Simplified controls

Featuring the ability to perform a test splice to ensure the best arc parameters for the type of fiber you are using.

Invertible LCD

Invertible screen option allows the user to splice from either side of the machine.

Smaller & Lighter

Designed to be easy to use in the factory or field - with minimal fuss, 150mm (L) x 150mm (W) x 160mm (H) and Only 3.5 kg!

Fast Operation

9 second splice time and 30 second heat time

The Yamasaki Y90 Package

- Y90 Fusion Splicer Y17
- Fiber Cleaver Buffer
- Strippers Cleaning
- Brush
- Fiber Tweezers
- AC Power Adaptor
- 12V Adaptor
- Internal Battery
- Carry Case
- Shoulder Strap
- 2 Sets of Electrodes
- Operators Manual
- Cooling Tray
- Screen Protector
- Calibration Certificate

Specifications	Yamasaki Y90
Splicing Method	Core Alignment
Splice Time	9 seconds
Fiber Types	Singlemode and Multimode
Fiber Cladding	80 ~ 150µm
Fiber Coating	100 ~ 1000µm
Fiber Cleaved Length	16mm (Standard)
Average Fusion Loss	0.02dB(SM),0.01dB(MM)
Return loss	>60dB
Storage of Splice Result	5000 splice entries
Working Mode	Auto/Manual
Operating Temperature	-10°C to +50°C
Humidity	0 ~ 95% RH
Altitude	0-4000m
Heater	30s (standard) or adjust heating time to suit the environment
Splice Protector Sizes	40-60mm
Power Supply	AC: 100V-260V 50Hz, 30W (Mains) DC: 12V, 25W (Car adaptor) or Internal battery
Power Consumption	AC: 30W; DC: 25W
Measurement	150mm(L) x 150mm(W) x 160mm(H)
Weight	3.5 kg including battery

Y17 Cleave Tool

The Yamasaki Y17 is a precision fiber optic cleave tool with a diamond blade designed for all 125µm Multimode or Singlemode optical fibers. The adjustable blade can perform thousands of perfect cleaves with a typical cleave angle of 90 ± 0.5°. The intuitive design of the single pass cleave mechanism ensure that the Yamasaki Y17 Fiber Optic Cleave Tool is quick, smooth and simple to operate. The Yamasaki Y17 Fiber Optic Cleave Tool features a durable metal chassis, replaceable blade, handy adjustment tool, hard carry case & instruction manual. The Y17 comes standard with the Yamasaki Y90 Fusion Splicer Package.

Features

- Fiber Types: Multimode or Singlemode (125µm Fiber)
- Automatic Fiber Scrap Bin
- Buffer sizes: 250µm - 900µm buffer
- Cleave Length: 10mm to 25mm (adjustable)
- Cleave Angle: 90 ± 0.5°
- Hard Case Included
- Allen key for blade adjustment and replacement
- Instruction Manual
- 12 Month Warranty

XO1 FiberPulse OTDR (with VFI)

The Yamasaki XO1 FiberPulse Optical Time Domain Reflectometer (OTDR) with integrated Visible Fault Identifier (VFI) is used to certify fiber installations and locate faults in single-mode fiber optic networks.

FiberPulse OTDRs send pulses down fiber optic networks from one end of the fiber, displaying a trace and reporting all detected events such as splices, connectors, macrobends and fiber ends and breaks. The total fiber length is reported along with name, location, loss and reflectance of detected events. The intuitive keypad design features integrated shortcut keys designed for quickly positioning and analysing events. Another feature of this OTDR is the Live Optical Signal Detect Function, which tests if the fiber is live before sending the pulse, this can effectively prevent accidental damage to the OTDR and attached communication equipment.

The hand held Yamasaki XO1 FiberPulse OTDR features a rugged, light weight, dust proof and shock tested shell. The internal NiMH battery lasts up to 8 hours before requiring recharge and the internal memory can store up to 1000 results which can be viewed onscreen or downloaded via USB to PC in the industry standard .SOR format. The XO1 FiberPulse OTDR results can be retrieved for live viewing on screen or uploaded to a PC for further analysis and/or archiving using the FiberPulse OTDR Trace Management Software. This allows for enhanced analysis of events, wave form comparison, trace overlaying, reporting, tagging, processing, batch modification and printing. Works on Windows 7/Vista/XP operating systems.

The Yamasaki XO1 Package

- XO1 FiberPulse OTDR with integrated VFI
- FC/PC & SC, ST connectors
- Rechargeable NiMH battery
- Yamasaki XO1 FiberPulse OTDR Trace Management Software
- USB cable
- AC adapter
- Hard Case
- Calibration Certificate
- FiberPulse User Manual

Specifications	Yamasaki Y85
Fiber Type	SM
Wavelength(nm) (±20nm)	1310nm/1550nm
Dynamic Range(dB)	32/32 (120km)
Display Type	Color LCD
Emitter Type	LD
Connector Type	FC/PC & SC, ST adaptors
Measurement Time	15s、30s、1min、2min、3min
Attenuation zone	12m
Event dead zone	2.5m
Distance Test Accuracy	±(1 m + 5×10-5×distance + L)
Attenuation Test Accuracy	±0.05 dB/ dB
Reflection Test Accuracy	±4 dB
Data Storage	1000 Results
Battery	Rechargeable Ni-MH (8 Hour)
Connectivity	USB
VFI Wavelength	650nm
VFI Output Power(dBm)	≥-3
VFI Test Distance (km)	7
Power Supply	AC adapter 110/240V 50Hz
Operating Temperature	-10 to 50°C
Storage Temperature	-25 to 55°C
Environmental	Drop tested 2M, dust proof
Relative Humidity	0~95% (non-condensing)
Language	English and Spanish

TS21 FiberScout

The Yamasaki TS21 FiberScout is a new development by Yamasaki, designed as a cost effective and simple solution for identifying faults & testing the length of singlemode fibers. In many cases, this user-friendly device can be used as an alternative to an OTDR, saving you money.

This lightweight, rugged, dustproof and water resistant piece of test equipment can list up to 8 results at one time. It features automatic power control, automatic pulse width selection and even a built in VFI.

Features

- Interchangeable connector: FC/SC/ST
- Long battery life: >10 Hours or ≥ 5000 Measurements
- Operating Wavelength: 1550nm
- Detector Type: InGaAs
- Max. Distance: 60km
- Dead Zone: 15m
- Visible Fault Identifier: 650nm, 1mW—Bright Red
- Power Supply: 3 x AA, Batteries
- Working Temperature: -5~40 ℃
- Storage Temperature: -10~60 ℃
- Humidity : 0~85% （Non-condensating ）
- Dimensions : 190*100*5mm
- Weight: 450g

TLU Series Laser Sources

The Yamasaki TLU Series Intelligent Laser Source is the latest design in Multiple Wavelength Fiber Optic Light Source technology. The available wavelengths include 850,1300nm for Multimode and 1310,1490, 1550nm and 1625nm for Singlemode. It can Generate Wave ID and Tones and the output power is easily adjustable.

This ruggedized handheld unit can be used in conjunction with the Yamasaki TPU Intelligent Power Meter to provide a very accurate and reliable test solution with downloadable results.

Yamasaki TLU Fiber Optic Laser Source also features an ambient light sensor which allows the LCD to automatically adjust to the brightness of your surroundings.

Recommended for use with :

TPU1 Intelligent Power Meter - USB (-70～+6)

TPU1A Intelligent HiPower Meter - USB (-50～+26)

FEATURES

- Available Wavelengths: 850,1300,1310,1490,1550,1625nm
- Modulation: CW, 270Hz,330Hz 1KHz & 2KHz
- Universal FC,SC,ST connector included. LC adaptor available
- Ambient Light Sensor and Ultra-Bright LCD Display
- Belt Pouch, Shoulder Strap
- AC Adaptor
- Power Saver Feature
- 3 x AA Batteries (included)
- Instruction Manual
- 12 Month Warranty

Ordering Code	Wavelengths
TLU1	850,1300,1310,1550nm
TLU2	850,1300nm
TLU3	1310,1550nm
TLU4	1310,1550, 1625nm
TLU5	1310,1490,1550nm
TLU6	1310,1490,1625nm
TLU7	1310,1490,1550,1625nm

TPU Series Power Meters

The Yamasaki TPU Series Intelligent Power Meter is the latest design in Multiple Wavelength Optical Power Meter technology. The InGaAs detector is pre-calibrated for 850,1300nm for Multimode and 1310,1490, 1550nm and 1625nm for Singlemode wavelengths. The TPU supports Wave ID which allows the power meter to automatically detect the incoming wave ID transmitted by the TLU series Laser Source and adjust itself accordingly.

Additionally the TPU has the ability to identify tones generated at 270Hz,330Hz 1KHz & 2KHz to assist in fault finding and fiber location. The internal memory holds up to 1000 results which can be down loaded through the USB port and onto PC with the included reporting software.

Yamasaki TPU Fiber Optic Light Source also features an ambient light sensor which allows the LCD to automatically adjust to the brightness of your surroundings.

Recommended for use with :
TLU Series Laser Source.

FEATURES

- Calibrated Wavelengths: 50,1300,1310,1490,1550,1625nm
- Tone Detect 270Hz,330Hz 1KHz & 2KHz
- Universal FC,SC,ST connector included. LC adaptor available
- Ambient Light Sensor and Ultra-Bright LCD Display
- Results in dBm, dB and mW
- Include USB Cable, Software CD, Belt pouch and Shoulder Strap
- AC Adaptor
- Power Saver Feature
- 3 x AA Batteries (included)
- Instruction Manual
- 12 Month Warranty

Ordering Code	Measurement Range
TLU1	-70 ～+6 (Standard)
TPU1A	-50 ～+26 (High Power)

TP40 FiberSeek

Testing in the FTTx environment just got easier with Yamasaki's latest piece of PON Test Equipment, the TP40 FiberSeek FTTx PON Power Meter.

The TP40 includes FTTH PON Testing, 6 Wavelength Optical Power Meter & Visible Fault Identifier all in one unit. This rugged hand held unit includes a removable rubberized boot, bright backlit LCD, auto shut off function, wide measurement range, upstream burst mode, accurate testing and bright flashing VFI.

For Fiber to the Home (FTTH)

Using signal pass through for minimal disruption to customers The Yamasaki TP40 PON Fiber Optic Power Meter simultaneously measures 1310,1490,1550nm with 1310nm wavelength upstream burst mode for communication with the ONT. LED Pass / Fail / Warning indicators allow for instant assessment of power values. The USB port in the top of the TP40 allows for downloading, saving, printing of results, pass/fail threshold modification and self-calibration, using the included PC software and USB cable.

FEATURES

- Detector Type InGaAs
- Optical Connector Interchangeable FC/SC/ST
- Fiber Type 9/125um
- Display 128*64mm
- Measurement Unit dB/dBm/xW
- Resolution (dB) 0.01
- Operation Voltage(V) DC 3.3~5.5V
- Power Supply 3 AA1.5V battery
- Working Hours (hr) 90 without backlight
- Operation Temperature(°C) -10°60 =°C
- Storage temperature(°C) -25°70 =°C
- Weight(kg) 500g

TF916 Optical Fiber Identifier

The Yamasaki TF916 Optical Fiber Identifier is an essential part of any professional fiber optic toolkit. It's sleek and intelligent design allows the user to Detect traffic, traffic direction, Injected tones and relative optical power within any singlemode optical fiber simply by inserting fiber into the head of the device.

The easy to read ultra-bright LED display and audible tone make operation easier and can save you valuable time in the field. The outer casing is comprised of an anodized aluminium making it lightweight yet tough and easy to carry around. The total kit includes four adaptor heads to suit various optical fiber types with minimal bend loss (These are 250 & 900 Micron, 2.0 and 3.0mm).

The TF916 displays relative core power, detects traffic direction and identifies tones of the following frequencies: 270Hz, 1kHz & 2kHz

FEATURES

- Accepts 250µm, 900µm Coated Fiber, 2mm and 3mm Jacketed Fiber Cable
- Detected Wavelengths: 800 ~ 1700nm
- Identified Signal Type: CW, 270Hz, 1KHz & 2KHz
- Typical loss: <0.2dB (1550nm), <0.6 (1310nm)
- Optical Power Reading –30~+5dBm
- Rugged Outer Housing
- Ultra-Bright LCD Display
- Belt Pouch, Shoulder Strap
- Power Saver Feature
- 9V Battery (included)
- Instruction Manual and 12 Month Warranty

TVOA1 Variable Optical Attenuator

The Yamasaki TVOA1 Variable Optical Attenuator is another new development designed for introducing precise amounts of attenuation into an active fiber cable. Attenuation can be adjusted in 0.05dB steps, it is suitable for use in PON, PDH, SDH, SONNET networks and also in systems using analog modulation (CATV). Attenuation is shown on the LCD screen in both dB and dBm. On shut down the TVOA1 stores your settings and attenuation stepping, so that next time you turn it on, the TVOA1 is ready to use with your previous settings.

FEATURES

- Wavelength Range: 1260~1650nm
- Fiber Type: Singlemode 9/125µm
- Optical Connector: SC / ST / FC
- Calibrated Wavelengths: 1310 / 1490 / 1550 / 1625
- Measurement Range: 2.5~60dB
- Resolution: 0.05dB
- Minimize Insertion Loss: 2.5dB
- Linearity: ± 0.5dB
- Repeatability: ± 0.2dB
- Accuracy: ± 0.8dB
- Back Reflection: ≈35dB (typical value 40dB) Max input: <20dBm
- LCD Display: Backlit,128x64 resolution
- Batteries Included: 7.4V Rechargeable
- Power adaptor: 7~8.5V Included
- Operation temperature: 0~40c
- Storage temperature: -10~60c
- Humidity: 0~85% non-condensating
- Weight: 450g
- Warranty: 12 Months

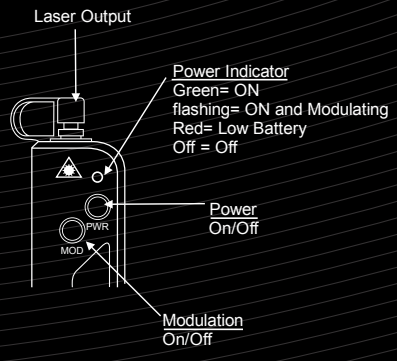
TVFI Ultra Compact VFI

The Yamasaki TVFI Visible Fault Identifier is a practical palm sized solution for finding breaks, bends and faulty connectors or splices in fiber optic cable.

The Yamasaki TVFI Visible Fault Identifier is an essential tool that any fiber optic installer or fiber optic technician can carry. It works by shining an extremely bright 1mW Class 2 laser through any fiber optic cable, causing all cracks, splits or leaks to glow a brilliant bright red. The laser can also be made to flash quickly (Modulate) to aid in fiber optic fault location.

FEATURES

- Power 1mW
- Effective range 5km
- Wavelength: 650nm (Red)
- CW or Modulation 2Hz
- Suitable for SM and MM
- Suits 2.5mm Ferrules
- Power Display Light
- Battery: 2 x AA
- L100mm x W30mm x H18mm
- 60 grams
- 12 Month Warranty
- 1.25mm Ferrule adaptor available



TT1315 Fiber Optic Talk Set

The Yamasaki TT1315 Fiber Optic Talk Set has been specifically designed for professionals working with optical fiber. It enables the users to achieve crystal clear, full duplex, hands-free communication over any spare singlemode fiber optic cable. It is a breeze to use, with a simple menu system, automatic call detection, user selectable back light, flip-out stand and comfortable headset

Sold as a two pack, these talk sets give fiber optic installers and technicians a reliable and cost effective solution to communicate over long distances for long periods of time, whereas RF devices can often be a costly and ineffective option.

The TT1315 Talk Set is also able to generate tones of the following frequencies: 270Hz, 1kHz & 2kHz for the purpose of fiber identification.

FEATURES

- 2x Hands-free Headsets
- 2x Removable Ruggedized Boots
- 2x Padded Carry Cases
- 2x Rechargeable Long Life Lithium Ion Batteries
  2x 8.5 Volt DC Chargers
- Full Duplex Digital Audio
- 80 Kilometre range. (50 Miles)
- Wavelengths 1310nm and 1550nm
- Dynamic range 40dB
- 2KHz Source Tone
- 2KHz Tone Detect
- Optical Connector Protection Cap
- Customizable Backlight
- Instruction Manual
- 12 Month Warranty

TPUCP1 CWDM Power Meter

The Yamasaki TPUCP1 CWDM Power Meter is a handy measuring instrument which is specially designed for CWDM system. The unit covers the wavelengths from 1470~1610nm. It can measure and monitor optical power and attenuation value at the calibrated wavelengths of 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm and 1610nm. Testing at all calibrated wavelengths will be performed at the same time and all testing results will be shown in the easy to read display. The Yamasaki TPUCP1 CWDM power meter features simple operation and quick response, which greatly improves the testing efficiency. Its high accuracy measurement and easy-to-use design makes it an ideal tester for CWDM system testing and CWDM installation and maintenance.

Specifications -TPUCP1 CWDM Power Meter	
Pass band (nm)	20
Wavelength range(nm)	1470 ~ 1610
Calibrated wavelength (nm)	1470, 1490, 1510, 1530, 1550, 1570
Optical Power Range (dBm)	+6 ~ -50
Uncertainty (dB)	± 0.4
Resolution (dB)	0.01
Data Storage	500 records
Communication Port	USB
Operation temperature (°C)	-10 ~ +60
Storage Temperature (°C)	-25 ~ +70
Auto Power-off (min)	Auto power off after 10minutes idle time
Battery Working Hours (h)	120
Power Supply	3pcs 1.5V AA Alkaline batteries
Power Supply Adaptor (V)	8.4
Dimensions (mm)	180*90*36.5
Weight (g) Without batteries and rubber boot	420

TPUCL01 CWDM Light Source

The Yamasaki TPUCL01 CWDM Light Source is a useful tool for use in CWDM networks. It features simultaneous 8 wavelength output, wavelength identification. It has adjustable power output and has the ability for each channel to have an adjustable step of 0.01db. The Yamasaki TPUCL01 also includes an inline system update function.

Specifications -Yamasaki TPUCL01 CWDM Light Source	
Bandwidth (nm)	20
Calibration Wavelength (nm)	1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590
Applicable Fiber	SM, MM
Modulation (Hz)	CW,270, 330, 1K,2K
Connector	(FC/SC/ST) PC
Output Power Range (dBm)	-8~-18
Output Power Adjustable Step (dB)	0.01
Output Stability (dB)	<0.1
Uncertainty (dB)	5%
Resolution (dB)	0.01
Working Temperature (°C)	-10~+60
Storage Temperature (°C)	-25~+70
Auto-off Time (min)	10
Working Time (h)	120
Battery	3pcs AA
Dimension (mm)	180*90*36.5
Weight (g)	420

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Yamasaki TPUCL01
CWDM Light Source

- Useful tool for use in CWDM networks
- Ability for each channel to have an adjustable step of 0.01db
- Wavelength identification
- Inline system update function
- Adjustable power output
- Simultaneous 8 wavelength output

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Yamasaki
TMU01 Multi Meter

- Automatic wavelength of light source switching
- Frequency identification
- Simple function mode switching
- A high stability of output power and a data storage function
- Up to 1000 test records

TMU01 Multi Meter

The Yamasaki TMU01 Handheld Optical Multi-meter integrates the functions of an intelligent optical power meter module and of a highly stable light source module in one unit. It can also provide data storage and upload functions. It is widely used in installation, measurement and maintenance of DDN, Telecom and CATV networks. The TMU01 can allow users could write their own software by the communication protocol provided, has automatic wavelength of light source switching, Frequency identification, simple function mode switching, a high stability of output power and a data storage function, up to 1000 test records .

Specifications -Yamasaki TMU01 Multi Meter		
Optical Power Meter Module		
Calibrated wavelengths (nm)	IngaAs	
Measurement Range (dBm)	-70 ~ +6	-50 ~ +26
Rosolution (dB)	0.01	
Uncertainty	⩽ ±0.25	
linearity (dB)	⩽ ±0.1	
Frequency ID Range (Hz)	< 10K	
Optical Light Source Module		
Wavelengths (nm)	1310/1550 (other wavelengths can be optional)	
Typical Ouput Power (dBm)	- 5	
Output Stability (dB, 30min, 20 °C)	⩽ 0.1	
Modulation Frequencies (Hz)	CW, 270, 1K, 2K	
General Specifications of Multi Meter		
Power Supply	⩾ 50 (Both Power Meter and Light Source are working) ⩾ 200 (Only Power Meter is working)	
Battery Operating Time (h)	10	
Auto-off time (min)	Mini USB	
Communication Port	-10 ~ +60	
Operating Temperature (°C)	-25 ~ +70	
Storage Temperature (°C)	175 X 90 X 44.5	
Dimension (mm)	265	
Weight (g, without batteries)		

FEATURES

- Automatic wavelength of light source switching
- Frequency identification
- Simple function mode switching
- A high stability of output power and a data storage function
- Up to 1000 test records

PPM01 Plastic Power Meter

The Yamasaki PPM01 Plastic Power Meter is a lightweight and compact testing instrument. It is easy to use and transport, and it has the abilty to be used for absolute power measurement of optical fibers.

Specifications -Yamasaki PPM01	
Wavelength Range (nm)	600-1000
Detector	Large square Si (size 4X4mm)
Measurement Range (nm)	-60~+10
Uncertainty	±5%
Calibration Wavelength (nm)	635, 650, 780, 850, 98
Resolution	Linearity: 0.1%; logarithm: 0.01dBm
Working Temperature (°C)	-10~+60
Storage Temperature (°C)	-25~+70
Auto-off Time (min)	10
Working Time (h)	60
Battery	3 pcs AAA1.5V
Weight (g)	200
Dimension (mm)	150X74X26

TRU01 Return Loss Meter

The Yamasaki TRU01 Return Loss Meter is used to measure the return loss in the field fiber optic linking, in order to adjust the quality of the optic fiber end-face, and to make sure the fiber optic communication is in good condition. The Yamasaki TRU01Return Loss Meter can realize of Return Loss, Insertion Loss, Output power, and also can be used as a laser source..

Specifications -Yamasaki TRU01 Return Loss Meter	
Wavelength (nm)	1310/1550
Plus Width (nm)	<5
Displaying range (dB)	6~70
Accuracy (dB)	±0.5
Resolution (dB)	0.01
Power Meter	
Wavelength Rang (nm)	850 ~ 1650
Calibration wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625
Detector type	InGaAs
Displaying Unit	dBm, dB, W
Displaying Range (dBm)	-70 ~ +6
Max. Output Power (dBm)	+6
Resolution (dB)	0.01
Accuracy (dB)	0.3
Laser Source	
Wavelength (nm)	1310/1550
Plus Width (nm)	<5
Max Output Power (dBm)	-3
Stability (dB, 30min)	± 0.05
Modulation (HZ)	CW, 270, 1K, 2K

VM007 FiberSpy

The Yamasaki FiberSpy is the latest in fiber inspection technology; it allows the user to get a clear view of an end face using 200x or 400x magnification. The portable design of the FiberSpy makes it perfect for use in the field. The FiberSpy can also be connected to a computer monitor for closer observation when used in a factory or workshop. This handheld device contains a rechargeable battery and also comes with an AC adaptor, USB interface and software for image capture. The standard FiberSpy package comes with FC, LC, SC female adaptors, a 1.25mm ferrule universal adaptor & a 2.5mm universal ferrule adaptor. The Yamasaki FiberSpy is the ultimate tool for fiber endface inspection and network optimisation.

FEATURES

- Magnification: 200x and 400x
- Screen: 3.5" Backlit LCD
- Operating Temperature: -10˚C ~ +50˚C
- Storage Temperature: -20˚C ~ +10˚C
- Power Supply: 12 Volt rechargeable batteryor AC adaptor
- Battery Life: >6 hours continuous use
- Dimensions: 205mm(L) x 94mm(W) x
- 25mm(H)
- 1 Year Warranty

COMPONENTS

- FiberSpy Video Scope (w/200x or 400x probe)
- Impact Resistant Carry Case
- Yamasaki View Software
- FC, LC & SC Female Adaptors
- 1.25mm ferrule universal adaptor for LC and MU male connectors
- 2.5mm ferrule universal adaptor for FC, SC, ST & E2000 connections
- Other c onnectors available on request (inc. bare fiber & APC connectors)

M200 & M400 Handheld Microscope

Yamasaki M200/M400 Fiber Optic Microscopes are made of high quality precision all glass optics and has an integrated infra-red safety filter. This palm sized & rugged optical microscope supports both oblique and coaxial viewing modes, allowing either a clear view of the fiber core or the surface of the end face, this is critical for ensuring optimal connectivity. It also incorporates a timed switch that illuminates the end face without having to constantly hold in the button making it very easy to use. The rugged metal construction, comfortable rubber grip, soft eye-piece and small size make Yamasaki Dual Mode Fiber Optic Microscopes an ideal choice for contractors and technicians for use in the field or laboratory.

Oblique illumination provides clear view of the core, and is ideal for field termination

Coaxial illumination provides higher detail for a more critical examination of the polish quality.

FEATURES

- 200x / 400x Magnification
- 950µm Field of View
- Oblique and Coaxial Views
- Precision All Glass Optics
- Durable Metal Construction
- Comfortable Rubber Grip
- 100,000hr Ultra Bright White LED
- Universal SC/ST/LC adaptors
- Timed illumination Switch
- Infra-Red Safety Filter*
- Power Source: 2xAAA Batteries
- Weight: 280gm
- Size: 190mm(L) x 45mm(D) x30mm(H)
- 1 Year Warranty

While the Infra-red safety filter may assist in the prevention of eye damage from an active laser source. However, a microscope should never be used to view a fiber which is known to be active, there is no guarantee that the filter will totally prevent eye damage in all situations. For maximum safety around live fibers, please see VM007 FiberSpy.

Media Converters

Yamasaki Media converters are typically used in pairs to convert a copper to fiber, Copper to SFP, Copper to single fiber WDM or even multimode to singlemode. Converting one type of Media or cabling to another. This can vastly increase the range of data networks. Available in stand-alone, modular chassis-based, or card type configurations.

Media Converter Ordering Guide

Fast Ethernet 10/100Base-TX to 100Base-FX Fiber Optic Media Converters

C102C Fast Ethernet Media Converter RJ45-Multimode SC 2km
C102T Fast Ethernet Media Converter RJ45-Multimode ST 2km
C225C Fast Ethernet Media Converter RJ45-Singlemode SC 25km
C240C Fast Ethernet Media Converter RJ45-Singlemode SC 40km

Fast Ethernet Multimode to Single Mode Fiber Optic Media Converters

C125C Fast Ethernet Media Converter Multimode SC-Singlemode SC 25km
C140C Fast Ethernet Media Converter Multimode SC-Singlemode SC 40km
C160C Fast Ethernet Media Converter Multimode SC-Singlemode SC 60km
C1100C Fast Ethernet Media Converter Multimode SC-Singlemode SC 100k
C2100C Fast Ethernet Media Converter RJ45-Singlemode SC 100km

Fast Ethernet 10 100Base-TX to 100Base-FX WDM Single Fiber Media Converter

Must be used in transmit (t) & receive (r) pairs. Singlemode only
CS225Ct Fast Ethernet Media Converter RJ45-SFSinglemode SC 25km
CS225Cr Fast Ethernet Media Converter RJ45-SFSinglemode SC 25km
CS240Ct Fast Ethernet Media Converter RJ45-SFSinglemode SC 40km
CS240Cr Fast Ethernet Media Converter RJ45-SFSinglemode SC 40km
CS260Ct Fast Ethernet Media Converter RJ45-SFSinglemode SC 60km
CS260Cr Fast Ethernet Media Converter RJ45-SFSinglemode SC 60km
CS280Ct Fast Ethernet Media Converter RJ45-SFSinglemode SC 80km
CS280Cr Fast Ethernet Media Converter RJ45-SFSinglemode SC 80km

Gigabit Ethernet Multimode to Single Mode Fiber Optic Media Converters

C310C Media Converter Multimode SC-Singlemode SC 10km Gigabit
C320C Media Converter Multimode SC-Singlemode SC 20km Gigabit
C340C Media Converter Multimode SC-Singlemode SC 40km Gigabit
C3100C Media Converter Multimode SC-Singlemode SC 100km Gigabit

SFP Media Converter to Gigabit Ethernet 1000Base-T

C400 Media Converter RJ45 to SFP

Gigabit 1000Base-T to 1000Base FX Media Converters

C305C Media Converter RJ45-Multimode SC 500m Gigabit
C420C Media Converter RJ45-Singlemode SC 20km Gigabit
C440C Media Converter RJ45-Singlemode SC 40km Gigabit
C460C Media Converter RJ45-Singlemode SC 60km Gigabit
C480C Media Converter RJ45-Singlemode SC 80km Gigabit
CS420Ct Media Converter RJ45-SFSinglemode SC 20km Gigabit
CS420Cr Media Converter RJ45-SFSinglemode SC 20km Gigabit

Chassis for Media Converters above C1, C2, C3, C4

R142 Media Converter Chassis 19" 2RU
R142D Media Converter Chassis 19" 2RU -48v

Auto-Sensing 10 100 1000 TX to 1000 base FX Media converter

With built in power supply - Standalone unit - does not fit in chassis
C505C Media Converter RJ45-Multimode SC .5k Fast Ethernet +Gigabit
C620C Media Converter RJ45-Singlemode SC 20k Fast Ethernet +Gigabit
C640C Media Converter RJ45-Singlemode SC 40k Fast Ethernet +Gigabit
C680C Media Converter RJ45-Singlemode SC 80k Fast Ethernet +Gigabit

Card Type Gigabit Media converter

Card module for R162 & R162D Chassis
C505Ci Card Based Media Converter RJ45-Multimode SC 500m Gigabit
C620Ci Card Based Media Converter RJ45-Singlemode SC 20k Gigabit
C640Ci Card Based Media Converter RJ45-Singlemode SC 40k Gigabit
C680Ci Card Based Media Converter RJ45-Singlemode SC 80k Gigabit
R162D Media Converter Chassis 19" 2RU -48v
R162 Chassis are for Card MC Only

Accessories

MCPWR AC adaptor for Media Converter

SFPs

Yamasaki SFPs support digital optical monitoring (DOM) functions according to the industry-standard SFF-8724 multisource agreement (MSA). This feature gives the end user the ability to monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Available in various temperature ranges to suit your environment.

Standard 0~+70°C Extended -10~+85°C Industrial -40~+85°C

Fast Ethernet SFPs (100Base)

100BASE-FX for multi-mode fiber optic link spans of up to 2km in length.
100BASE-LX for single-mode fiber optic link spans of up to 15km in length.
100BASE-EX for single-mode fiber optic link spans of up to 40km in length.
100BASE-ZX for single-mode fiber optic link spans of up to 80km in length.
100BASE-BX Single-Fiber Bidirectional fiber optic links of up to 15km in length.

Description	Ordering Code
SFP 100BASE-FX	S61310-02
SFP 100BASE-LX10	S61310-15
SFP 100BASE-EX	S61310-40
SFP 100BASE-ZX	S61550-80
SFP 100BASE-BX10-U	S51315L-15B
SFP 100BASE-BX10-D	S51315L-15Y

Gigabit SFPs (1000Base)

1000BASE-T for 100m transmission over unshielded twisted pair (UTP) Category 5 Cable
1000BASE-SX for Multimode Fiber Only
1000BASE-LX/LH for Both Multimode and Single-Mode Fibers
1000BASE-EX for Long-Reach Single-Mode Fibers
1000BASE-ZX for Long-Reach Single-Mode Fibers
1000BASE-BX for Single-Fiber Bidirectional Applications

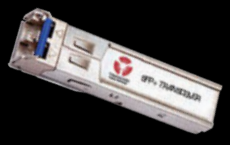
Description	Ordering Code
SFP 1000Base-T	S010
SFP 1000Base-SX	S100
SFP 1000Base-LX/LH 10km	S210
SFP 1000Base-EX 40km	S240
SFP 1000Base-ZX 70km	S270
SFP 1000Base-ZX 120km	S2110
SFP 1000BASE-BX10-U	S41314L-15B
SFP 1000BASE-BX10-D	S41314L-15Y
SFP 1000BASE-BX20-U	S41314L-20B
SFP 1000BASE-BX20-D	S41314L-20Y
SFP 1000BASE-BX40-U	S41314L-40B
SFP 1000BASE-BX40-D	S41314L-40Y
SFP 1000BASE-BX70-U	S41415L-80B
SFP 1000BASE-BX70-D	S41415L-80Y

DWDM & CWDM also available

10Gig Transceivers

To suit your sockets, 10 Gigabit Optical Transceivers are available in four different form factors, SFP+, X2, XENPAK and XFP.

10GBase-SR	for multi-mode fiber optic link spans of up to 300 Meters in length.
10GBase-LR	for single-mode fiber optic link spans of up to 15km in length
10GBase-ER	for single-mode fiber optic link spans of up to 40km in length
10GBase-ZR	for single-mode fiber optic link spans of up to 40km in length



SFP+

Description	Ordering Code
SFP+ 10GBase-SR	S+10G/SR
SFP+ 10GBase-LR	S+10G/LR
SFP+ 10GBase-ER	S+10G/ER
SFP+ 10GBase-ZR	S+10G/ZR

DWDM & CWDM also available

XENPAK

Description	Ordering Code
XENPAK 10GBase-SR	XP10G/SR
XENPAK 10GBase-LR	XP10G/LR
XENPAK 10GBase-ER	XP10G/ER
XENPAK 10GBase-ZR	XP10G/ZR

DWDM & CWDM also available

X2

Description	Ordering Code
X2 10GBase-SR	X210G/SR
X2 10GBase-LR	X210G/LR
X2 10GBase-ER	X210G/ER
X2 10GBase-ZR	X210G/ZR

DWDM & CWDM also available

XFP

Description	Ordering Code
XFP 10GBase-SR	X10G/SR
XFP 10GBase-LR	X10G/LR
XFP 10GBase-ER	X10G/ER
XFP 10GBase-ZR	X10G/ZR

DWDM & CWDM also available

Compatibility can also be guaranteed with Brocade, 3Com, Juniper, Alcatel, Enterasys, Foundry, Nortel, Extreme and many other popular brands upon request.

Yamasaki have suffixes to ensure transceivers compatibility with other major brands of switch.

Ordering examples to ensure compatibility:

S240 = Cisco Compatible (No Suffix)
S240/BR = Brocade compatible
S240/3C = 3Com
S240/JU = Juniper
S240/AL = Alcatel
S240/EN = Enterasys
S240/FO = Foundry
S240/NO = Nortel
S240/EX = Extreme
S240/HI = Hirschman
S240/RU = RuggedCom
S240/?? = Other Brand - please contact us for correct code

IMPORTANT ORDERING INFORMATION

If you do not put a suffix after the ordering code you will get Cisco compatible by default. Please contact us with your requirements.
Yamasaki have a huge range of transceivers available for many types of situations, OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, Fiber Channel, CWDM, DWDM as well as Direct Attach cables, but there are far too many variants to list in this booklet. Operating
Temperatures Extended, Industrial and Rugged available upon request. Please contact us for further details.

Legacy GBICs

Yamasaki Gigabit Interface Converter (GBIC) transceiver modules are are suitable for use in Legacy fiber switches and routers that require the older type of pluggable device. Our GBIC transceivers are designed to work at speeds of up to 1.25 Gbps. GBICs are available for either multimode or singlemode networks and are capable of operating over distances of up to 100kms. MSA Compliant.

Ordering Guide

G100	GBIC - MM - 500m
G210	GBIC - SM - 1.25Gb - 15km- SC
G240	GBIC - SM - 1.25Gb - 40km – SC
G270	GBIC - SM - 1.25Gb - 80km – SC
G2110	GBIC - SM - 1.25Gb -100km - SC

Fast Ethernet Switches

Yamasaki W Series switches are designed for deployment in star topology, they do not require management and are easy to setup and install. Each switch has 1 or 2 Fiber ports and a maximum of 4 RJ45 10/100Base Fast Ethernet Ports. The easy to read LED display shows power status, link status, transmissions rates and data activity. The strong alloy housing provides excellent heat dissipation. Yamasaki guarantees the W Series switches with a Lifetime Warranty.

W12C	Fast Ethernet Switch 1 Fiber Port, 2 Copper Ports 10/100Base
W12C2	1xMM SC 2km 10/100 2xRJ45
W12C20	1xSM SC 20km 10/100 2xRJ45
W12C40	1xSM SC 40km 10/100 2xRJ45
W12C60	1xSM SC 60km 10/100 2xRJ45
W12C20s	1xSM SF SC 20km 10/100 2xRJ45
W12C40s	1xSM SF SC 40km 10/100 2xRJ45
W12C60s	1xSM SF SC 60km 10/100 2xRJ45

W14C	Fast Ethernet Switch 1 Fiber Port, 4 Copper Ports 10/100Base
W14C2	1xMM SC 2km 10/100 4xRJ45
W14C20	1xSM SC 20km 10/100 4xRJ45
W14C40	1xSM SC 40km 10/100 4xRJ45
W14C60	1xSM SC 60km 10/100 4xRJ45
W14C20s	1xSM SF SC 20km 10/100 4xRJ45
W14C40s	1xSM SF SC 40km 10/100 4xRJ45
W14C60s	1xSM SF SC 60km 10/100 4xRJ45

WS1 and WS2	Fast Ethernet Switch 1 or 2 SFPs, 4 Copper Ports 10/100Base
WS14FE	1 x SFP + 4 x RJ45 10/100
WS24FE	2 x SFP + 4 x RJ45 10/100

Accessories

Yamasaki Fusion Splicer Electrodes

The Yamasaki Y85 electrodes are an essential part of a fusion splicer package. The electrodes provide an arc to melt the glass ends together while splicing. To ensure good splice repeatability regular replacement of fusion splicer electrodes is a necessity.

Replacement Blade for Y17 Cleave Tool

The high precision adjustable diamond blade can perform thousands of cleaves with a typical cleave angle of 90 ± 0.5°.

Mechanical Splice

The Yamasaki MEC Mechanical Splice is designed for creating a stable connection between two fiber optic cables. Especially suitable for quick use by FTTH installers, it allows for shorter installation times, greater versatility and low optical loss.

Often used in FTTH, LAN and fiber optic repairs, the Yamasaki MEC Mechanical Splice is suitable for connecting both single-mode and multimode optical fiber with coatings of 250 or 900um. They can also be used for various styles of fiber including aerial, buried or building distribution, or alternatively used in conjunction with a pigtail to quickly add a connector in the field.

Each Yamasaki MEC Mechanical Splice has it own internal index matching gel and each splice can be re-used up to 5 times, The unique design allows for the completion of a low loss joint without the need for additional tuning. They come supplied in a pack of 5 splices in a convenient blister arrangement.

Quick Clean

A dirty connector can potentially cost a company thousands of dollars or even bring down essential services, The Yamasaki QC Quick Clean Connector Cleaners are an ideal solution for keeping those connectors clean, they are used during every installation to ensure best connectivity in fiber optic networks and data centres.
They are pocket sized, reliable and refillable, making them perfect for ongoing maintenance applications. The QC Quick Clean Connector Cleaner is an essential part of any fiber installers toolkit and a must have for maintenance personnel.

TLC

1.25mm Fiber Endface converter for Yamasaki's T Series Test Equipment

Disclaimer

Some Yamasaki fiber optic laser products can cause eye damage if used incorrectly, Never look directly into optical ports and store these products away from children. Specifications and descriptions are subject to change without prior notice. Cisco, Brocade, 3Com, Juniper, Alcatel, Enterasys, Foundry, Nortel, Extreme, Hirschman and RuggedCom and all other registered trademarks are the property of their respective owners.

XO1 FiberPulse OTDR

Test With Confidence

YAMASAKI
Optical Technology

The Yamasaki XO1 FiberPulse Optical Time Domain Reflectometer (OTDR) is an essential part of any professional fiber optic tool set. With a 32dB dynamic range for both 1310nm and 1550nm wavelengths and an integrated VFI the XO1 FiberPulse allows the user to certify fiber installations and locate faults in single-mode fiber optic networks end to end.

Featuring a rugged, light weight, dust proof and shock tested shell The XO1 FiberPulse can send pulses down fiber optic networks from one end of the fiber, displaying a trace and reporting all detected events such as splices, connectors, macrobends and fiber ends and breaks, which can all be downloaded via USB connection to a computer with the included reporting software.

www.yamasakiot.com

Dependability & Reliability In One Name

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