





# The 35mm SLR Photo

SourceBook

## Section 3

### Flashes & Accessories

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# ACHIEVER

## SHOE MOUNT FLASHES

### 115M

#### Compact Manual Shoe Mount Flash

- ◆ Guide no. 48 (ft. ISO100)
- ◆ Runs on 2 AA batteries
- ◆ Includes PC sync cord

AC115M .....17.95

### 115A

#### Compact Auto Shoe Mount Flash

- ◆ Automatic exposure range
- ◆ Manual exposure operation
- ◆ Guide no. 48 (ft. ISO100)
- ◆ Runs on 2 AA batteries
- ◆ Includes PC sync cord

AC115A .....21.95

### 115A/S

#### Compact Auto

#### Shoe Mount Flash with Slave

- ◆ Built-in slave for automatic synchronization with on camera flash
- ◆ Automatic exposure range
- ◆ Manual exposure operation
- ◆ Guide no. 48 (ft. ISO100)
- ◆ Runs on 2 AA batteries
- ◆ Includes PC sync cord

AC115AS.....34.95



### 260T

#### Auto Shoe Mount Flash

A medium sized, non-dedicated flash designed with the needs and budget of the advanced amateur in mind.

- ◆ Compact bounce and zoom head
- ◆ 3 automatic exposure ranges
- ◆ Guide no. 88 (ft. ISO 100)
- ◆ Energy saving thyristor circuitry
- ◆ Includes color filters and diffuser
- ◆ Includes PC sync cord
- ◆ Runs on 4 AA batteries (not included)

AC260T .....39.95

### 321AZ

#### Auto Shoe Mount Flash

Compact size, flash with a bounce head that adjust from 0 to 90°. The 321AZ auto flash is an outstanding value.

- ◆ Compact bounce head ◆ 2 automatic exposure ranges
- ◆ Guide no. 64 (ft. ISO 100)
- ◆ Includes PC sync cord, color filters and diffuser
- ◆ Runs on 4-AA batteries (not included)

321AZ Auto Shoe Mount Flash (AC321AZ) .....34.95



### DZ260

#### Dedicated TTL Shoe Mount Flash



A fully TTL dedicated auto thyristor flash, the DZ260 has a bounce adjustment from 0-90° and a zoom flash range from 28mm (with the supplied diffuser) to telephoto. An extremely versatile medium sized flash.

- ◆ Fully dedicated TTL operation
- ◆ 2 automatic ranges (for non-dedicated operation)
- ◆ 3-positions bounce and zoom head
- ◆ Guide no. 112 (ft. ISO 100)
- ◆ Incorporates energy saving thyristor circuitry
- ◆ Includes PC sync cord, color filters and diffuser
- ◆ Runs on 4-AA batteries (not included)

DZ260 TTL Shoe Mount Flash: For Minolta (ACDZ260M) and Pentax (ACDZ260P) .....59.95

### 940AF

#### Dedicated TTL Power Zoom Shoe Mount Flash

The 940LCD is a sophisticated programmed electronic flash that combines a wide range of impressive features with an easy to use, motor driven zoom head. Automatically adjusts to match the focal length of your autofocus SLR camera.

- ◆ Bounce and auto zoom head automatically adjusts flash to match the focal length of lens in use from 28 to 85mm
- ◆ 330° swivel
- ◆ Infrared autofocus assistance beam
- ◆ Multiple TTL auto ranges
- ◆ Guide no. 90-132 (ft. ISO 100)
- ◆ Manual mode variable power down to 1/8th
- ◆ Incorporates energy saving thyristor circuitry
- ◆ Includes color filters and diffuser
- ◆ Rear-curtain sync
- ◆ Illuminated LCD panel for convenience
- ◆ Runs on 4-AA alkaline or nicad batteries

#### 940AF Dedicated TTL Power Zoom Shoe Mount Flash

For Minolta Maxxum (AC940MAF) and Nikon AF (AC940NAF) .....139.95

For Canon EOS (AC940CAF) .....119.95



# CLOUD DOME

## PORTABLE LIGHTING STUDIO

### Portable Lighting Studio for Digital and Analog Cameras

A studio-in-a-bag, Cloud Dome is the simplest way to take professional-quality photographs without complicated lighting. It's portable and convenient- an idea brought to life by an enterprising jewelry artist and her weather-loving father. Made of high impact, non-yellowing, crack-resistant plastic. Cloud Dome evenly diffuses natural light over the surface area of the object being shot. Lightweight and easily portable, the Cloud Dome is outfitted with a camera mount to eliminate any stability problems.

The Cloud Dome Professional has an 82mm opening to accommodate larger format cameras. The Cloud Dome is 10" high with a diameter of 15". For photographing larger objects extension collars are available in 7", 12" and an angle collar.



#### Professional 82mm Cloud Dome (CD82)

With an 82mm opening. Includes a base plate and larger "L" .....174.95

#### 7" Straight Extension Collar (CDECS)

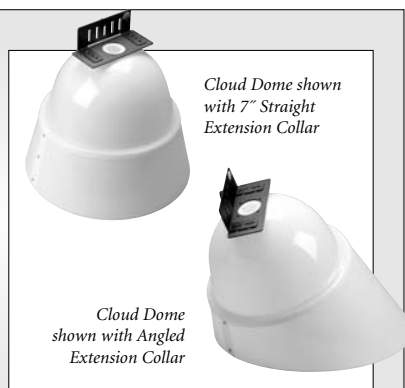
Helpful for photographing larger objects, as well as for cameras with focal distances greater than 8" .....37.95

#### 12" Straight Extension Collar (CDEC12)

Same as the 7" collar, but it adds 12" to the height of the Cloud Dome .....39.95

#### Angled Extension Collar (CDECA)

Includes a 7" extension collar. Allows you to photograph 3-dimensional items at an angle when used with the Cloud Dome .....38.95



#### Cloud Dome Applications

- ◆ Portable and convenient, the Cloud Dome is lightweight and easy to take in the field or use at home
- ◆ Perfect for photographing many types of objects:
  - Sports memorabilia
  - Jewelry
  - Stamps
  - Fossils
  - Documents
  - Stock and bond certificates
  - Artifacts
  - Gems and minerals
  - Circuit boards
  - Foliage
  - Great for Many Applications
  - Selling items via online auctions
  - Record structural damage
  - Patent applications
  - Insurance
  - Forensic pathology
  - Archeology
  - Evidence recording

### Infinity Board Lighting Kit



The Infinity Board Lighting Kit is a mini studio that sets up quickly for lighting and shooting small objects. The matte finish of the included 18 x 28" Infinity board allows photographing products with seemingly no background. The board may be used flat or adjusted into infinite U-shapes, is washable, and scratch proof. The two Flip Lights are 19" long folding fluorescent fixtures, each with a 13 watt compact fluorescent (5000° K) bulb. They each shut off automatically when folded.

#### Infinity Board Lighting Kit (CLIBDLKW)

Matte White Flexible Background .....89.95

#### Infinity Board Lighting Kit (CLIBDLKB)

Matte Black Flexible Background .....89.95

ORDER & INFO. (212) 502-6340 • FAX: (212) 239-7770 (800) 947-7008  
1-800-290-6750 • [www.bhphotovideo.com](http://www.bhphotovideo.com)



## SHOE MOUNT FLASHES

### 20BC-6 Compact Auto Shoe Mount Flash

The perfect beginners model, the BC-6 is a great and inexpensive way to enhance lighting and get great pictures. Designed to work with non-AF cameras, the BC-6 is an excellent mate for fill flash duty or use with fast films. Compact and easy to use, with a quite usable 28mm coverage angle. It weighs 5 oz.



- ◆ Guide Number 66
- ◆ Works with all cameras with middle-contact hot-shoe or PC sync.
- ◆ Manual flash mode allows full light output with the given guide number
- ◆ In Auto Flash Mode a sensor measures the light reflected by the subject and shuts off the flash as soon as the subject has been correctly lit.
- ◆ Flash ready and correct exposure indicator
- ◆ Supplied 28mm wide angle attachment increases the illumination angle
- ◆ 8-second recycle time, uses 3 AA batteries

ME20BC6 .....54.95

Based on their expertise in electronics and plastics technologies, Metz has built an excellent reputation over the years, and continues to maintain their leadership with an extremely wide-ranging product range. From handy compacts to high performance hand-held flashguns, you will find the proper light for every situation. And, for nearly every camera, because the well-developed SCA system guarantees that Metz flash units can be used on practically every SLR camera. The camera can change – the Metz stays!

### 36-M1 Manual Shoe Mount Flash



The 36 M-1 is the scaled-down all-manual version in the the Metz 36 series, and is available at an excellent price/performance ratio. The integrated zoom reflector can be manually adjusted to the given focal length (between 28 and 85 mm), and the reflector can be tilted a vertical direction 90°. It is a great flash for when no dedication is required. The flash also features a manual aperture calculator. Weighs 7 oz. Includes sync cord.

- Guide No. 98 at 50mm, 118 at 85mm
- ◆ Flash ready and correct exposure indicator
- ◆ Manual flash mode allows full light output with the given guide number
- ◆ Battery tester indicates – at the touch of a button– if battery capacity is sufficient
- ◆ 5-second recycle time, uses 4 AA batteries

ME36M1 .....69.95

#### About the Guide Number

The range of a flash unit is determined by the guide number. The higher the number, the wider the range. Pay close attention when making comparisons however, that the indication is based on the same focal length. If you wish to increase the range of your flash unit, then you may consider using a film with higher sensitivity, because they require less light! This effect is excellent for use in manual mode. The higher sensitivity is adjusted on the flash unit.

### 36C-2 Auto Slave/Manual Shoe Mount Flash

The 36C-2 is the automatic flash unit version in the the Metz 36 series, and features three different auto-working apertures (f/8, f/4, f/2 at ISO 100/21°). Furthermore, the integrated zoom reflector can be manually adjusted to the given focal length (between 28 and 85mm), and the reflector can be tilted in a vertical direction 90°. Includes sync cord.

- ◆ Guide Number 98 at 50mm, 118 at 85mm
- ◆ Cobra design reduces red eye effect
- ◆ Automatic and manual flash modes
- ◆ Flash ready and correct exposure indicator
- ◆ Battery tester indicates – at the touch of a button– if battery capacity is sufficient
- ◆ 5-second recycle time, uses 4 AA batteries

ME36C2 .....99.95



## SHOE MOUNT FLASHES

### 44MZ-2 Auto/Manual Shoe Mount Flash

The 44 MZ-2 is an SCA-capable auto/manual flash with a powerful auto-zoom flash head. Logical menu control makes it easy to select TTL, automatic and manual flash modes. Used in connection with the SCA-3002 adapter system, the 44MZ-2 will work with virtually any analog SLR camera as well as with Minolta, Nikon, Olympus and Sony digital cameras. Eight partial light output levels can also be set at the touch of a button. Activate TTL mode and the 44MZ-2 delivers perfect flash without any additional settings. Daylight fill-in flash brightens up dense shadows and rear curtain sync delivers faithful rendering of effects. Other functions include (in so far they are supported by the camera): ADI flash control and multi-zone flash metering (Minolta), matrix-controlled fill-in flash and under-exposure indication by way of aperture (Nikon), measuring flash function (Leica), TTL preflash (Contax), contrast control and spot-beam mode (Pentax).



- ◆ Guide Number 111 at 50mm, 144 at 105mm
- ◆ The slim Cobra design minimizes the danger of red-eye effect because the flash and exposure axis are spaced more widely apart so that reflections from the retina at the back of the eyes are almost completely avoided.
- ◆ Power Zoom automatically adjusts the flash reflector to the corresponding lens focal length (in connection with the SCA-3002 adapter). The integrated zoom reflector guarantees optimal light output within 28-105mm.
- ◆ Focal length can be further reduced down to 20mm with an optional wide-angle diffuser.
- ◆ Rear curtain synchronization for natural blur effects (with optional TTL module, where supported by camera).
- ◆ TTL Fill-in flash control reduces subject contrasts that are too high (for example by lightening up areas with strong shadow caused by bright sunshine).
- ◆ Wake-up function switches the flash on after a break just by tapping on the release button.
- ◆ Tilt and swivel reflector can be adjusted within the given range both horizontally and vertically (to provide indirect flash lighting). Also downward tilt for macro illumination.
- ◆ A buzzer goes off if there is an incorrect adjustment or to signal flash readiness.
- ◆ Built-in exposure safeguards such as distance failing to show when flash is pointed up
- ◆ Key Function locks the operating settings to protect against unintended adjustments
- ◆ Battery tester indicates — at the touch of a button — shows battery capacity.
- ◆ Automatic cut-off saves energy if you've forgotten to turn off the flash, or during longer periods between usage
- ◆ 5-second recycle time, runs on 4 AA batteries

44MZ-2 (ME44MZ2): With hot shoe table stand.....195.00



### 34AF-3 TTL Dedicated Shoe Mount Flash

For anyone who wants a combination of style, quality and compactness (fits into a shirt pocket) from their flash. The chic 34AF-3 delivers with its simple operation, powerful guide number, TTL operation and telephoto or wide-angle attachments. And of course it includes the specific special functions for AF SLR cameras from Canon, Minolta, Nikon and Pentax. Take it with when you don't need a bigger flash.

- ◆ Guide No. 92 at 35mm, 111 at 85mm
- ◆ 6-second recycle time
- ◆ TTL operation measures the flash illumination right on the film and adjust the flash exposure perfectly (Canon version is capable of E-TTL operation when used with E-TTL EOS bodies).
- ◆ Flash ready and correct exposure indicators. LED display indicates the settings and adjustments that should be/have been taken.
- ◆ Manual flash mode allows full light output with the given guide number
- ◆ Wake-up function makes switching on a flash after a long break possible just by tapping on the camera release button.
- ◆ Individual color scheme to match the metallic colors of the cameras
- ◆ Includes changeable 24mm wide angle diffuser and 85mm telephoto lens attachment
- ◆ Runs on two CR2 3-volt lithium batteries (included)

#### PRICING

<b>34 AF-3 (ME34AF3CAF)</b>	
For Canon EOS .....	148.95
<b>34 AF-3 (ME34AF3NAF)</b>	
For Nikon AF .....	CALL
<b>34 AF-3 (ME34AF3MAF)</b>	
For Maxxum .....	CALL
<b>34 AF-3 (ME34AF3PAF)</b>	
For Pentax AF .....	CALL

## SHOE MOUNT FLASHES

### 36AF-3 TTL Dedicated Shoe Mount Flash

Achieving excellence for the occasional photographer, the 36AF-3 (dedicated for Canon, Nikon, and Minolta cameras) is housed in a modern and trendy cobra design and gives super-precision TTL operation for maximum exposure accuracy. By measuring the flash light at the film plane, light emission is always matched perfectly to the given subject, making a great image every time. Furthermore, the integrated zoom reflector can be manually adjusted to the given focal length (between 28 and 85mm), optimizing light output with a simple setting.



- ◆ Guide Number 98 at 50mm, 118 at 85mm
- ◆ Cobra-design reduces red eye effect
- ◆ Zoom reflector works in 28-85 mm range, reflector can be tilted 90°
- ◆ Integrated AF measuring beam
- ◆ Manual flash mode allows full light output with the given guide number
- ◆ TTL operation measures the flash illumination right on the film and adjust the flash exposure perfectly.
- ◆ Automatic TTL fill-in flash function (depends on camera type)
- ◆ Automatic X-sync shutter speed control
- ◆ Flash ready indication (also in the camera view finder), correct exposure indicator
- ◆ Automatic cut-off saves energy if you've forgotten to turn off the flash after using, or during longer periods between usage
- ◆ 5-second recycle time
- ◆ Runs on 4 AA batteries

**36AF-3C (ME36AF3CAF)**  
For Canon EOS .....142.95

**36AF-3C (ME36AF3MAF)**  
For Minolta Maxxum .....142.95

**36AF-3C (ME36AF3NAF)**  
For Nikon AF.....142.95



### 44AF-4 TTL Dedicated Shoe Mount Flash

The 44AF-4 is the choice for speed and simplicity. Pop in four AA batteries (any kind), mount it to the camera's hot shoe, turn it on and start shooting. The camera takes care of everything else from setting the ISO, zoom position, and ultimately the exposure. The 44AF-4 is very user-friendly with only two function keys for straightforward menu control. Features include TTL auto-zooming; manual, selectable partial light output levels; plus special functions such as daylight fill-in flash. It also features rear curtain sync and the ability to manually set the zoom setting for non-auto-zooming lenses. The illuminated LCD panel is large and easy-to-read and only displays the pertinent mode information. The sleek Cobra design provides professional quality light output by tilting the head up 2" and using a Fresnel lens that redirects the light back to the subject. Even so, the flash can still be folded completely flat to fit any pocket.

- ◆ Large bounce/tilt flash head includes a built-in auto zoom that automatically adjusts with lenses in the 28-105mm range, while producing a GN of 144 (feet) at ISO 100 at maximum zoom setting and a GN of 112 (feet) at ISO 100 at 50mm.
- ◆ Tilt and swivel reflector can be adjusted within the given range both horizontally and vertically (used to provide indirect flash lighting).
- ◆ Extended zoom can set the illumination angle at one level higher than the zoom setting on the camera. Manually set the zoom setting for non-auto-zooming lenses.
- ◆ Rear curtain sync- important for controlling blurring effects of action shots.
- ◆ Integrated AF Assist Beam makes automatic focus adjustment with the SCA-3002 adapter by AF-SLR cameras possible.
- ◆ TTL Fill-in flash control reduces subject contrasts that are too high (for example by lightening up areas with strong shadow caused by bright sunshine).
- ◆ More control is possible by switching to manual mode and setting partial light output levels when the need arises.
- ◆ A buzzer goes off if there is an incorrect adjustment or to signal flash readiness.
- ◆ Automatic cut-off saves energy if you forgot to turn off the flash. A battery tester indicates whether battery capacity is sufficient.
- ◆ Switch on the flash after a long break just by tapping on the camera release button.
- ◆ Key Function locks the operating settings
- ◆ 5-second recycle time

**44 AF-4 (ME44AF4MAF):** With hot shoe table stand for Minolta Maxxum .....189.95  
**44 AF-4 (ME44AF4CAF):** With hot shoe table stand for Canon EOS .....189.95  
**44AF-4N (ME44AF4ND):** With hot shoe table stand for Nikon AF .....189.95

## SHOE MOUNT FLASHES

### 54MZ-4 TTL Dedicated Shoe Mount Flash

The flagship model in the Metz shoe mount series, the 54MZ-4 offers cutting edge technology with features such as Nikon's 3-D multi sensor TTL metering, Canon's E-TTL flash control, and high-speed synchronization (HSS).

The 54MZ-4 is available with a standard single pin shoe, or as a kit with your choice of SCA 3002 modules for Canon, Minolta, Nikon or Pentax. However, the 54MZ-4 remains user-friendly with only two buttons and a single thumb wheel to control the logically arranged menu system. The illuminated LCD panel is large and easy-to-read and only displays the pertinent mode information. Special features include the display of focal length for the lens in use in the LCD screen, display in feet or meters, auto flash bracketing, auto shut-off, and lockable keypad eliminating accidental setting changes.



#### Step-up features from the 44 AF-4

- ◆ The main flash's Auto Zoom feature works with lenses in the 24-105mm range, producing a GN of 177 (feet) at ISO 100 at maximum zoom setting and a GN of 131 (feet) at ISO 100 at 50mm.
- ◆ A secondary reflector fills in the shadows in close-up areas that are created when using an indirect flash. It can also be used to produce wrap around lighting when the main flash, with its built-in tilt/swivel function, is bounced off a wall or ceiling.
- ◆ Automatic Flash Program provides automatic adjustment of the optimal time/f-stop/flash exposure combination.
- ◆ Compatible with SCA-300 and SCA-3002 adapter systems
- ◆ Automatic flash bracketing with  $\pm 3$  apertures in one-third steps
- ◆ Partial Light Output Mode for reduced light output or for fixed flash lighting times.
- ◆ Offers nine different automatic settings as well as a variable Manual mode, offering ratios down to 1/256th power.
- ◆ Large, easy-to-read illuminated LCD panel only displays pertinent mode information.
- ◆ Displays lens focal length in the LCD screen. The display can be adjusted from feet to meters, or to various film/digital formats.
- ◆ Canon version offers HSS (High Speed Synchronization). This lets you use the flash with shutter times that are higher than the X-sync shutter speed of the camera.

54MZ-4 (ME54MZ4): With Standard Non-Dedicated Shoe .....		319.95
54MZ-4 (ME54MZ4CAF)		
For Canon EOS.....	399.95	54MZ-4 (ME54MZ4MAF)
		For Minolta Maxxum .....
		399.95
54MZ-4 (ME54MZ4NDZ)		54MZ-4 (ME54MZ4PAF)
For Nikon AF .....	399.95	For Pentax AF .....
		399.95

### 54AF-1 Digital TTL Dedicated Shoe Mount Flash

The 54 AF-1 Digital was developed for digital and film cameras. Ergonomics are straightforward, with most features operable with only one button. Easy to operate, yet it offers a range of advanced features, like stroboscopic modeling light, three partial light output levels, 1st and 2nd curtain sync and HSS high speed sync. It also represents the state-of-the-art in flash technology. New internal precision metering methods ensure perfect flash exposures with either Nikon's D-TTL, 3D/D-TTL, i-TTL and i-TTL-BL systems for its digital cameras, including the D70; with Canon's E-TTL system for its EOS and PowerShot series cameras; with Konica/Minolta's AD system for its Dimage series cameras.



- ◆ "Cobra Design" flash reduces the redeye effect
- ◆ Autozoom head can cover from 24 to 105mm, and 20mm when used with the optional wide angle diffuser
- ◆ Flash tilts downward to better illuminate close-up subjects
- ◆ High-speed flash synchronization allows flash to be used with any shutter speed (with appropriate camera bodies)
- ◆ Wireless full TTL triggering
- ◆ E-TTL Evaluative preflash metering and stroboscopic modeling light for previewing effect

54 AF-1 (ME54AF1CAF)	
For Canon EOS.....	289.95
54 AF-1 (ME54AF1ND)	
For Nikon AF .....	289.95
54 AF-1 (ME54AF1MAF)	
For Maxxum .....	289.95

## HANDLE-MOUNT FLASHES

### 45 CL-1 / 45 CL-4

Compact and easy to hold, the 45 series can light up a room, and are an excellent choice for professionals. Shooting in the vertical or horizontal position still allows the light to be above and to the side of the lens' center. Built to withstand years of harsh use and abuse, the 45 CL-1 offers high light output (GN 148) and simple handling. 5 auto apertures are available. Intended for the owners of non-AF and SLR cameras without special flash features. The big brother of the Metz 45 CL-1, the 45 CL-4 offers 6 auto apertures as well as an additional secondary reflector. It is intended for owners of AF as well as for non-AF SLR cameras. Fully dedicated with the SCA 300, the 45CL-4 also integrates with the advanced SCA 3002 system modules when used with converter cable SCA 3000C. Both come supplied with wide angle attachment, sync cord, camera bracket and AA battery holder.



- ◆ Flash ready and correct exposure indicator
- ◆ Automatic and manual flash modes
- ◆ Includes a wide angle attachment
- ◆ LCD /LED display indicates the settings and adjustments that should be/have been taken.
- ◆ Tilt and swivel reflector can be adjusted within the given range both horizontally and vertically. (Used to provide indirect flash lighting).

#### 45 CL-4 Step-up Features:

- ◆ TTL operation measures the flash illumination right on the film and adjust the flash exposure perfectly.
- ◆ Partial Light Output Mode for reduced light output or for fixed flash lighting times
- ◆ Secondary reflector is available to fill-in the shadows in close-up areas that are created when using an indirect flash.
- ◆ Includes reduction filter for secondary reflector (5561)

**45 CL-1 Auto Handle-Mount Flash (ME45CL1) .....279.95**

**45 CL-1 Flash Kit (ME45CL1N):** Includes 45 CL-1 Handle Mount Flash, Nicad Cluster, Charger, Wide Angle Adapter, 15" PC Cord, Quick Release Bracket .....**369.95**

**45 CL-4 TTL Handle-Mount Flash (ME45CL4) .....479.95**

**45CL-4 Flash Kit (ME45CL4N):** Includes 45 CL-4 Handle Mount Flash, Nicad Cluster, Charger, Wide Angle Adapter, Light Reducing Filter, 15" PC Cord, Quick Release Bracket and AA Battery Holder.....**572.95**



### 60 CT-1 / 60 CT-4

The 60 series provides enough power for even the most demanding lighting situations. With a whopping guide number of 197, slow films and small apertures are no longer mutually exclusive with flash effect. Bounce or swivel the light, and use any of a host of accessories to change the angle, color or direction of light. Many battery power packs are available providing short recycle times and lots of shots between charges. It features high light output and quick flash follow-up time thanks to an external powerpack with dryfit rechargeable batteries. Stepping up, the 60 CT- 4 is fully integrated in the SCA-300 or SCA-3002 (with SCA-3000C connector cable) and compatible with all leading camera brands. This enables a variety of special flash functions.

- ◆ Flash ready and correct exposure indicator
- ◆ Automatic and manual flash modes
- ◆ Includes a wide angle attachment
- ◆ LCD /LED display indicates the settings and adjustments that should be/have been taken.
- ◆ Tilt and swivel reflector can be adjusted within the given range both horizontally and vertically. (Used to provide indirect flash lighting).

#### 60 CT-4 Step-up Features:

- ◆ TTL operation measures the flash illumination right on the film and adjust the flash exposure perfectly.
- ◆ Secondary flash head is available to fill-in the shadows in close-up areas that are created when using an indirect flash.
- ◆ Includes reduction filter for second flash head (5562)
- ◆ Key Function locks operating settings, protects against unintended adjustments.
- ◆ Power Zoom automatically adjusts the flash reflector to the corresponding lens focal length (in connection with SCA-3002 adapter)
- ◆ A buzzer goes off if there is an incorrect adjustment or to signal flash readiness

## HANDLE-MOUNT FLASHES

### 70 MZ-5

*The 70 MZ-5 is a professional flash characterized especially by its simplified operating philosophy: 2 function keys and one dial provide complete control of all flash modes. A logically ordered menu offers in addition to the already known functions special features such as: TTL or Nikon 3D multi - sensor mode, TTL flash exposure correction, stroboscope mode, integrated slave function, secondary reflector, modelling light, program memory for preferred adjustments, and rapid mode (for serial exposures). And depending on the camera, access to additional features such as: automatic flash bracketing function. Equally as meaningful, the extended key function for all keys, that completely prevents an accidental change in setting.*



### FEATURES

- ◆ 3D Multi-sensor measurement for refined TTL flash exposure (specific to Nikon)
- ◆ AF Assist Beam integrated in the flash makes automatic focus adjustment (with the SCA-3002 adapter) by AF-SLR camera possible. (Also in complete darkness).
- ◆ Automatic and manual flash modes
- ◆ Automatic Flash Program provides automatic adjustment of the optimal time/f-stop/flash exposure combination.
- ◆ LCD /LED display indicates the settings and adjustments that should be/have been taken.
- ◆ Extended zoom lets you set the illumination angle at one level higher than the zoom setting on the camera.
- ◆ Key Function locks the operating settings to protect against unintended adjustments
- ◆ Manual zoom lets you set the illumination angle of the flash head by hand.
- ◆ Power Zoom automatically adjusts the flash reflector to the corresponding lens focal length (in connection with SCA-3002 adapter)
- ◆ Partial Light Output Mode for reduced light output or for fixed flash lighting times.
- ◆ An integrated sensor makes wireless flash operation possible in combination with an additional flash (slave) unit. Plus, remote automatic or remote TTL makes wireless operation of additional flashes possible in controller/slave mode.
- ◆ Automatic flash bracketing with (+/-) 3 apertures in one-third steps
- ◆ Rapid mode shortens the flash recycling time but with less light output
- ◆ Secondary flash head is available to fill-in the shadows in close-up areas that are created when using an indirect flash.
- ◆ Tilt and swivel reflector can be adjusted within the given range both horizontally and vertically. (Used to provide indirect flash lighting).
- ◆ TTL operation measures the flash illumination right on the film and adjusts the flash exposure perfectly.
- ◆ Stroboscope mode for flash sequences in selectable intensity, frequency and number of flashes (used for effect exposures and movement studies).
- ◆ Modelling light allows you to judge the illumination.
- ◆ Battery tester indicates whether battery capacity is sufficient.
- ◆ Rear sync on the second shutter curtain for natural blur effects.
- ◆ A buzzer goes off if there is an incorrect adjustment or to signal flash readiness.
- ◆ Automatic TTL fill-in flash function (depends on camera type)
- ◆ Automatic cut-off saves energy if you've forgotten to turn off the flash after using, or during longer periods between usage.
- ◆ Wake-up function makes switching on a flash after a long break possible just by tapping on the camera release button.
- ◆ Includes 20mm wide angle attachment

### 60CT-Series & 70MZ-5 HANDLE MOUNT FLASH KITS

**60CT-1 Flash Kit (ME60CT1):** Includes 60CT-4 Handle Mount Flash, Dryfit Battery, Battery Pack, Charger, Power Cord, Shoulder Strap, 20mm Wide Angle Diffuser (built-in), 15" PC Cord and Quick Release Camera Bracket.....**699.95**

**60CT-4 Flash Kit (ME60CT4):** Includes 60CT-4 Handle Mount Flash, Dryfit Battery, Battery Pack, Charger, Power Cord, Shoulder Strap, 20mm Wide Angle Diffuser (built-in), 15" PC Cord, Light Reducing Filter and Quick Release Camera Bracket .....**938.98**

**70MZ-5 Flash Kit (ME70MZ5):** Includes 70MZ-5 Handle Mount Flash, Nicad Battery and Charger, Quick Release Camera Bracket, Standard Base, 20mm Wide Angle Diffuser and Cover Plate .....**749.95**

## FLASH SPECIFICATIONS

Model #	20 BC-6	36 M-1	36 C-2	44 MZ-2	34 AF-3	36 AF-3	44 AF-4
Guide Number With ISO 100/21° & 35/50mm	20 (35mm)	30 (50mm)	30 (50mm)	34 (50mm)	28 (35mm)	30 (50mm)	34 (50mm)
Guide Number With ISO 100/21° & max. zoom	20	36	36	44	34	36	44
SCA 3002 System	—	—	—	✓	—	—	—
SCA 3000 System	—	—	—	—	—	—	—
SCA 300 System	—	—	—	✓	—	—	—
Power Zoom	—	—	—	✓	—	—	—
Extended Zoom	—	—	—	✓	—	—	—
Manual Zoom	—	✓	✓	—	—	✓	—
Clip-on Wide Angle Attachment	✓	—	—	—	✓	—	—
Illumination Above...mm	28	28	28	28	24	28	28 / 24
Secondary Reflector	—	—	—	—	—	—	—
Tilt And Swivel Reflector	Vertical in °	+90°	+90°	-7 / +90°	—	+90°	-7 / +90°
Rotation Area	Horizontal in °	—	—	—	—	—	—
Integrated AF Measuring Flash	—	—	—	✓	✓	✓	✓
LCD or LED Display	—	—	—	LCD	—	—	LCD
Manual Flash Mode	✓	✓	✓	✓	—	—	✓
Tele-computer Apertures	1	—	3	12	—	—	—
TTL Mode	—	—	—	✓	✓	✓	✓
Stroboscopic Mode	—	—	—	—	—	—	—
Partial Lighting Levels	—	—	—	8	—	—	1
Rapid Mode	—	—	—	—	—	—	—
Program Memory	—	—	—	—	—	—	—
Key Function (key lock)	—	—	—	—	—	—	—
Modelling Light	—	—	—	—	—	—	—
Metz Remote Control Function	—	—	—	—	—	—	—
Metz Remote Slave Function	—	—	—	1)	—	—	—
Buzzer	—	—	—	—	—	—	—
Correct Exposure Indicator	—	—	✓	✓	✓	✓	✓
Automatic Cut-off	—	—	—	✓	✓	—	✓
<b>Power Sources</b>							
Rechargeable Battery	—	✓	✓	✓	—	✓	✓
AA Alkaline Battery	✓	✓	✓	✓	—	✓	✓
Lithium Battery	—	—	—	✓	✓	—	✓
Power Pack	—	—	—	—	—	—	—
<b>Flash Recovery in Seconds</b>							
NiCd min. / max.	—	5 / 5	0.3 / 5	0.2 / 4	—	0.3 / 3	0.2 / 4
AA Alkaline Battery min. / max.	— / 8	5 / 5	0.3 / 5	0.2 / 5	—	0.3 / 5	0.2 / 5
Lithium Batteries min. / max.	—	—	—	—	0.3 / 6	—	—
Power Pack	—	—	—	—	—	—	—
NiMH min. / max.	—	5 / 5	0.3 / 5	0.2 / 4	—	0.3 / 5	0.2 / 4
Weight	5.3 oz.	7.2 oz.	7.2 oz.	14.1 oz.	3.5 oz.	7.2 oz.	14.0 oz.
Dimensions (LxHxD)	2.9 x 2.1 x 3.4"	2.8 x 4.5 x 3.8"	2.8 x 4.5 x 3.8"	3 x 4.9 x 4.3"	2.4 x 4 x 1.4"	2.8 x 4.5 x 3.8"	3 x 4.9 x 4.3"

## FLASH SPECIFICATIONS

Model #	54 MZ-4	54 AF-1	45 CL-1	45 CL-4	60 CT-1	60 CT-4	70 MZ-5
Guide Number With ISO 100/21° & 35/50mm	40 (50mm)	131	45 (35mm)	45 (35mm)	60 (35mm)	60 (35mm)	50 (50mm)
Guide Number With ISO 100/21° & max. zoom	54		45	45	60	60	70
SCA 3002 System	✓		—	2)	—	2)	✓
SCA 3000 System	—		—	2)	—	2)	—
SCA 300 System	✓		—	3)	—	3)	✓
Power Zoom	✓		—	—	—	—	✓
Extended Zoom	✓		—	—	—	—	✓
Manual Zoom	—	—	—	—	—	—	—
Clip-on Wide Angle Attachment	✓		✓	✓	✓	✓	✓
Illumination Above...mm	20		28	28	28	28	20
Secondary Reflector	✓		—	✓	—	✓	✓
Tilt And Swivel Reflector	Vertical in °	-7 / +90°	-7 / +90°	+90°	+90°	+90°	+90°
Rotation Area	Horizontal in °	270°		360°	360°	360°	270°
Integrated AF Measuring Flash	✓		—	—	—	—	✓
LCD or LED Display	LCD	LCD	—	LED	—	LED	LCD
Manual Flash Mode	✓		✓	✓	✓	✓	✓
Tele-computer Apertures	12		5	6	6	8	12
TTL Mode	✓		—	✓	—	✓	✓
Stroboscopic Mode	✓		—	—	—	—	✓
Partial Lighting Levels	25		—	2	—	25	25
Rapid Mode	—		—	—	—	—	✓
Program Memory	—		—	—	—	—	✓
Key Function (key lock)	✓	✓	—	—	—	✓	✓
Modelling Light	✓	✓	—	—	—	—	✓
Metz Remote Control Function	✓		—	—	—	—	✓
Metz Remote Slave Function	1)		—	—	—	—	✓
Buzzer	✓		—	—	—	✓	✓
Correct Exposure Indicator	✓		✓	✓	✓	✓	✓
Automatic Cut-off	✓	✓	—	—	—	—	—
<b>Power Sources</b>							
Rechargeable Battery	✓	✓	✓	✓	✓	✓	✓
AA Alkaline Battery	✓	✓	✓	✓	—	—	—
Lithium Battery	✓	—	—	—	—	—	—
Power Pack	✓	✓	✓	✓	—	—	✓
<b>Flash Recovery in Seconds</b>							
NiCd min. / max.	0.1 / 5	0.1 / 5	0.7 / 8	0.3 / 7	0.25 / 5	0.25 / 5	0.1 / 5
AA Alkaline Battery min. / max.	0.1 / 6	0.1 / 6	0.3 / 15	0.3 / 13	—	—	—
Lithium Batteries min. / max.	—	—	—	—	—	—	—
Power Pack (min. / P 40 max. / P 50 min.)	0.1 / 6 / 2.5		0.3 / — / 2.5	0.3 / — / 2.5	—	—	0.1 / — / 3
NiMH min. / max.	0.1 / 5	0.1 / 5	—	—	—	—	0.1 / 5
Weight	16.9 oz.	1.4 lbs (w/batt.)	24.0 oz.	24.0 oz.	22.9 oz.	22.9 oz.	31.0 oz.
Dimensions (WxHxD)	3 x 4.9 x 4.3"	4.3 x 4.9 x 3	3.6 x 9.7 x 4"	3.6 x 9.7 x 4"	4.4 x 10 x 5" 6.5 x 5 x 2.3"	4.4 x 10 x 5" 6.5 x 5 x 2.3"	4.9 x 9.6 x 4.6" 2.6 x 1.4 x 3.5"

## FLASH ACCESSORIES

### CORDS & CABLES

*Metz offers a full line of PC cords and power cables to add functionality to your camera outfit.*

**MZ-5355 (ME5355):**

20" coiled (extends to 6') power cable V45 connects P50 power-pack to 45 series flash.....**36.50**

**MZ-5520 (ME5520):**

12" coiled PC cable connects the 45CT-1 to sync terminal.  
Extends to 3' .....**22.95**

**MZ-5521 (ME5521):**

12" coiled (extends to 3') PC cable connects the 45CL-1/3/4 and 60CT-4 to sync terminal .....**19.95**

**PA-5521HD (ME5521HD):**

26" heavy-duty coiled (extends to 4.5') PC cable connects the 45CL-3/4 and 60CT-4 to sync terminal .....**29.50**

**MZ-5524 (ME5524):**

18" coiled (extends to 3') PC cable connects the 45CT-5 and 60CT-1/2 series to sync terminal.....**26.50**

**PA-5524HD (ME5524HD):**

24" heavy-duty coiled (extends to 4.6') PC cable connects the 45CT-5 and 60CT 1/2 series to sync terminal .....**33.95**

**MZ-5525 (ME5525):**

3' straight PC cord connects the 32CT4, 45CL-1/3/4/, 45CT-3/4 and 60CT-4 to sync terminal.....**19.50**

**MZ-5528 (ME5528):**

12" coiled (extends to 4') power cable from 60 Series power packs to Flash Head.....**38.50**

**MZ-5530 (ME5530):**

PC extension cord. It attaches to a standard PC cord and extends its length by 15' .....**22.95**

**MZ-5532 (ME5532):**

Connecting cable from 60 Series packs to flash head (repl.)...**33.95**

**MZ-5534 (ME5534):**

12" coiled PC Cord with a sub-mini end that connects the 20BC-6 to the sync terminal. Extends to 3' .....**24.95**

**MZ-5548 (ME5548):**

12" straight PC cable with sub-mini end connects 34 CS-2, 20, 32, 40, 50, 54 and 70-series flashes to sync terminal .....**16.95**

**MZ-5549 (ME5549):**

9' straight PC cord for 45CL-1/3/4, 45C-T3/4 and 60CT-4 (Replacement).....**14.50**

**MZ-5533 (ME5533):**

10" straight power cable for 60 Series power packs .....**34.95**

**MZ-5554 (ME5554):**

12" Straight PC cable for 45CT-5 and 60CT-1/2 .....**33.95**

**MZ-5552 (ME5552):**

12" Straight PC cable for 45CT-1.....**19.95**

**MZ-5575 (ME5575):**

9.6' straight power cord for 60CT4 for use with multiple AC Adapters (5319).....**33.95**

**MZ-5591 (ME5591)**

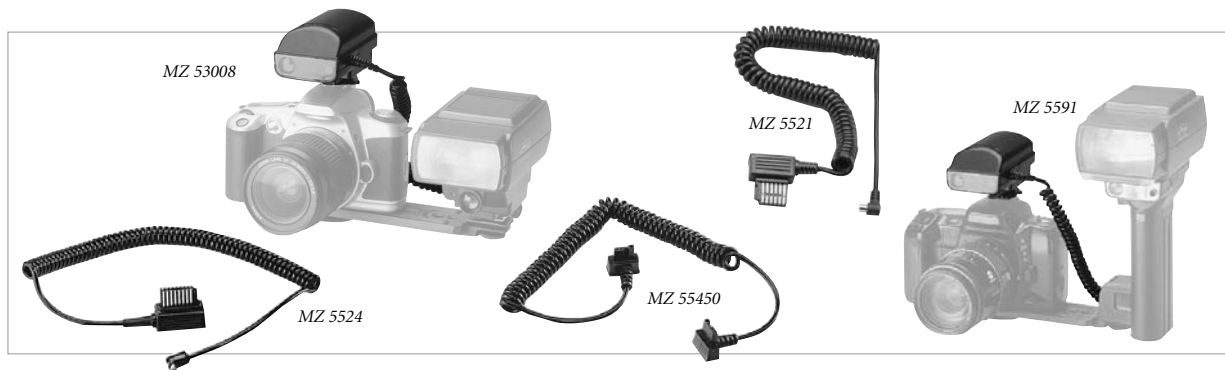
SCA 3000A Hot shoe to G16 Power Grip adapter cord with 13" coiled cable (extends to 4.6') Built-in AF sensor retains accuracy of focus .....**64.95**

**MZ-55450 (ME55450):**

20" coiled (extends to 6') power cable V54-50 connects P50 powerpack to 54MZ-3.....**36.50**

**MZ-55440 (ME55440):**

8" coiled (extends to 4.5') power cable V54-50 (with belt-clip) connects P50 powerpack to 54MZ-3.....**56.50**



## SCA 3002 / SCA 300 ADAPTERS

### SCA 3002 Adapters

All SCA 3002 modules are programmable. As camera models change versions or new models come out, the photographer will simply have the module reprogrammed. No more having to trade-in or throw away the modules. The SCA 3002 modules offer even more flexibility than its predecessor, the SCA 3000 system, including compatibility with E-TTL, 3-D modes, and the new "High Speed Synchronization" for use with Canon's E-TTL-HSS and Minolta/Nikon's TTL-HSS system. The modules are also backwards compatible. This means that they will work with the 32Z/32MZ, 40MZ, and 50MZ series flashes, and also with the SCA 3000C for 45CT/CL and 60CT-4 flashes.

#### MZ-53102 (ME53102):

Canon Module SCA 3102 allows flash to work with dedicated Canon cameras. Supports E-TTL, 2nd curtain sync. Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**77.95**

#### MZ-53302 (ME53302):

Minolta Module SCA 3302 allows flash to work with dedicated Minolta cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**77.95**

#### MZ-53402 (ME53402):

Nikon Module SCA 3402 allows flash to work with dedicated Nikon cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**77.95**

#### MZ-53502 (ME53502):

Leica Module SCA 3502 allows flash to work with dedicated Leica cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**92.95**

#### MZ-53602 (ME53602):

Sony Module SCA 3602 allows flash to work with dedicated Sony cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**92.95**

#### MZ-53702 (ME53702):

Pentax Module SCA 3702 allows flash to work with dedicated Pentax cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**77.95**



**MZ-53802 (ME53802):** Contax Module SCA 3802 allows flash to work with dedicated Pentax cameras (Sync and TTL). Requires optional 3000C Cord to connect to 45CL4/60CT-4/G16 Grip .....**92.95**

**MZ-53202 (ME53202):** Olympus Module SCA 3202 allows flash to work with dedicated Olympus cameras (Sync and TTL) .....**79.95**

### SCA 300 Adapters

Recommended for use with Metz flash units on non AF-SLR cameras from all normally available brands. Supports their specific flash special functions. (Can also be used on flash units that are intended for the SCA-3002 system. In this case not all of the special functions are available.)

#### MZ-5480 (ME5480):

Nikon Module SCA 344 for all Nikon F3 series cameras (Sync and TTL). Connects to 45 and 60 Series, G15/G16 Grip and w/300E to shoe mount SCA units or 50 Series.....**119.95**

#### MZ-5483 (ME5483):

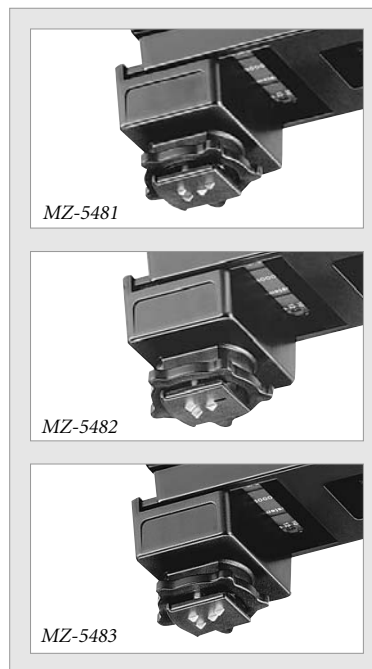
Nikon Module SCA 343 for all Nikon EM, FA, FE, FG, and AF series cameras (except for F5 and Pronia). (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**66.95**

#### MZ-5481 (ME5481):

Leica Module SCA 351 for all Leicaflex R4-R7 series cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**74.50**

#### MZ-5482 (ME5482):

Ricoh Module SCA351 for or all Ricoh XR and KR series cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**42.95**



#### MZ-5489 (ME5489):

Contax, Yashica and Practica Module SCA382 for all Contax SLR and G series and all Yashica FX series Cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**49.95**

#### MZ-5491 (ME5491):

Olympus Module SCA 321 for all Olympus OM series cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**59.95**

#### MZ-5492 (ME5492):

Pentax Module SCA 372 for all A, LX, ME, MG, MV and SF series Pentax cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**49.95**

#### MZ-5497 (ME5497):

Minolta Module SCA 331 for all Minolta X series, CLE, 5000, 7000, 9000 series cameras. (Sync and TTL- where supported by camera). Requires 300A adapter cord (5484) to connect 45 and 60 Series, G15/G16 grip.....**53.50**

### Batteries & Chargers

#### NiMH Battery Cluster (ME5325)

For 70MZ-4 and 70MZ-5 (100 full power flashes) .....118.50

#### Power Pack P50 (ME5351)

A rechargeable microprocessor controlled battery pack, the P50 Power Pack combines faster recycling times with safe, reliable operation. Its charging control circuit prevents overcharging and offers automatic battery conditioning through its discharge/charging system, eliminating battery memory problems. The P50 generates a significant number of flashes at a much shorter recycling time than conventional power sources. It connects to the flash's AC outlet with the appropriate power connecting cable, and can be carried over the shoulder or attached to a belt using the built-in belt clip. Requires Power Cord 5356 for 50/70MZ Series; Power Cord 5355 for 45 Series; Power cord 55450 for 54 Series .....313.95



#### Dual Voltage Charger for P50 Power Pack (ME5352K)

Includes plug adapters for Europe, UK, USA and Australia .99.95

#### Dedicated Module for Leica - SCA 3502 (ME53502)

Power Pack P50 with Dual Voltage Charger. Gives faster recycling time and more flashes per charge. (Requires 5355 V40 cable when used on 45 series flash and 5356 V50 cable for use with 70 series flash) .....92.95

#### Battery Charger (ME5310)

For 60 Series dryfit and nicad batteries and 45 Series nicad batteries .....57.95

#### Replacement Battery Housing (ME5316)

For 60 Series. Holds dryfit and nicad batteries.....426.95

#### Replacement Battery Housing for External Charging (ME5318)

For 60 Series. Holds dryfit and nicad batteries.....104.95

#### Dryfit Battery Cell (ME5320)

For 60 Series. Provides up to 4500 flashes .....64.95

#### Nicad Battery Charger (ME5309)

For MZ5313 (70 Series) nicad batteries .....74.50

#### Nicad Battery (ME5313)

For 70 Series. Provides 60 full power flashes per charge...67.95

#### Nicad Battery Cluster (ME5306)

For 45 Series.  
Includes charger .....76.95

#### Nicad Battery Cluster (ME5308)

For 45 Series .....59.95

#### NiMH Battery Charger (ME5326)

For MZ5327 .....74.95



### SCA Adapters and Converters

#### MZ-5531 (ME5531)

SCA 300 flash to hotshoe adapter (12" coiled cable extends to 36") for 45CL-3/4, 60CT-4 and G16 Grip .....45.95

#### MZ-5519 (ME5519)

SCA 301 Standard Hotshoe Module  
(replacement for standard hotshoe module) ....15.95

#### MZ-5546 (ME5546)

SCA 300D Spacer to allow the use of 32CT7, 32MZ-3, 40 and 50 Series with SCA 300 AF and SCA 356 modules.....19.95

#### MZ-5484 (ME5484)

SCA 300A Adapter connects 300 series modules to 45CT/CL-3/4 and 60CT-4 flashes connected to power grip. (12" coiled cable extends to 36") ...26.50



#### MZ-53008 (ME53008)

SCA 3008A Coiled hot shoe to hot shoe extension cord (13" extends to 4.6-ft.) Built-in AF sensor retains accuracy of focus. (Replaces SCA 3007A).....98.95

#### MZ-5592 (ME5592)

SCA 3000C/M1 Converter. 3002 Series module to 45 CT/CL 3/4 and 60CT4 when connected to G16 Power Grip. 13" coiled cable extends to 4.6' Built-in AF sensor retains accuracy of focus .....69.95

#### MZ-5595 (ME5595)

SCA 300E Converter (converters SCA344, 373, 386 and 396 to SCA shoe mount and 50 series.....44.95

## ACCESSORIES

### Multi TTL & Cordless Slave



- MZ-5368** (ME5368)  
Mecalux II Auto Slave. Flash sensitive trigger with both hot shoe and PC cord connections. Powered by a solar cell — no batteries needed.....**78.50**
- MZ-5369** (ME5369)  
Mecalux holder to mount Auto slave on handle mount flash units.....**32.50**
- MZ-53083** (ME53083)  
SCA 3083 Digital Slave Adapter for "TTL" or "A" cordless control. The SCA 3083 digital slave adapter allows all current SCA-compatible Metz models (of the SCA 3002 and SCA 3000 system and hand held flash units of the SCA 300 adapter system with cable SCA 3000C) to be used for off-camera flash photography.....**54.50**
- MZ-5453** (ME5453)  
SCA V5 TTL 16' extension cable attaches to 5451 and 5452.....**62.95**

### Brackets & Adapters

**G16 Power Grip** (ME5303)  
This power grip turns your shoe-mount flash into a handlemount. It holds 4 "C"-size alkaline or nicad batteries.....**CALL**

#### Replacement

**Quick Release Bracket** (ME5512)  
For 45, 50 and 60 Series flashes. Also for G15 and G16 Power Grips.....**29.95**

**Quick Release Connector** (ME5513)  
Spare quick release connector for MZ5512 .....**29.95**

**Adjustable Bracket Adapter** (ME5517)  
For equal height positioning of handle-mount flash with camera lens. Designed for cameras with motor drive. Attaches to the quick-release bracket .....**43.50**

**Controller Bracket** (ME5518)  
For 70 Series. Used to hold controller on cameras without shoemount .....**24.50**



### Screens, Diffusers, Filters



**Bounce Screen** (ME55423)  
For 54MZ Series flashes.....**59.95**

**Soft Diffuser** (ME54490)  
Soft diffuser for 54MZ and 44 Series flashes. Provides softer, more natural lighting.....**24.50**

**Bounce Diffuser** (ME5422)  
For 70MZ-4 and 70MZ-5 handlemount flash.....**59.95**

**Color Filter Kit** (ME54432)  
For 54MZ-3. Kit includes red, blue, yellow and green filters plus holder for gelatin filters. Supplied with a soft pouch .....**54.95**

**Tele Attachment** (ME5415)  
For 60 series. Doubles the light output by concentrating the flash beam. With ISO 100 you can light subjects up to 211' away .....**83.95**

**Removable 8x10" Reflector Screen** (ME5417)  
For 45 and 60 Series.....**44.95**

**ND Filter** (ME5561)  
For fill-flash on 45CT-4/5 and 60CT-4. Replacement .....**5.95**

**Tele Attachment** (ME5412)  
For 45 Series .....**94.95**

# NOVOFLEX

## NEW DIMENSION LIGHTING

### 3-D, Target and Diffused Flash Systems

With these three flash systems Novoflex offers the possibility to use artificial light in a closely controlled manner, enabling you to realize your photographic concepts. This new flash concept is based on a modular system. A compact generator with interchangeable shoes adapts to the automatic flash functions of most cameras. Different flash heads for each of the three techniques connect to the power pack.

- ◆ 3-D Flash replicates the characteristics of natural sunlight and creates dramatic three dimensional effects in your images. It is achieved with the "Flash Art" flash panel
- ◆ Targeted flash is achieved with the Auto-Duo-Flash with its' two flash heads for complete control of light and shadows.
- ◆ Diffused flash is possible with the Ring Flash head.



## FLASH ART

### Flat Flash Panel with Three-dimensional Light Output



This unique, patented flash panel emits parallel rays, but as these are generated over the entire area of a flat panel, it achieves the characteristics of sunlight, particularly with regard to the shape and size of shadows.

With a guide number of 40 (ISO 100) you can shoot at f5.6 at a distance of 6.6', with a light creating stunning special effects. It is thus ideally suited for photographing interiors and for portraits, eliminating the need to create complex lighting structures. This flash also eliminates the red-eye effect as well as eliminates glare in most glasses or reflective objects.

In designing this flash, special attention was paid to ensure it was optimally adapted to the characteristics of the components in use with digital cameras.

The resulting definition is significantly superior to that achieved with conventional flashes.

Macro photography with this flash is possible using f16 (ISO 100) at ratios from 1:5 to 3:1. A built-in focus light allows both easier focussing in low light and a preview of the resulting illumination. As it is possible to use "Flash Art" at a distance of up to 18" from the optical axis, you have the ability to vary the lighting from almost completely shadowless to pure contrasted backlight. The various Novoflex flash-arms, - brackets etc. will aid you in positioning the flash in endless combinations.

The cord is 1.5' long, its dimension are 6.2 x 6 x 0.6" (WxLxH), and it weighs 15.2 oz. (less batteries for the modeling light panel).



**Flat Flash Panel (NOFP):** With case.....524.95

**Flat Flash Panel (NOFPG):** With case and Generator .....872.50

# NOVOFLEX

## NEW DIMENSION LIGHTING

### DUO FLASH (NODF)

#### *Macro-Flash Studio for Target Flash*

The proven compact flash studio with two separate flash heads enables you to achieve any desired lighting in the manner of a conventional studio with all imaginable variations. With a guide number of 92 (ISO 100), 66 per head, you have the choice to equip each flash with diffusion discs to obtain the required lighting characteristics. Both flash heads have cords of very generous length permitting use at a distance of up to 30" from the optical axis. This provides endless possibilities in targeting your light by direction, intensity and quality. By changing the distance from the optical axis, you are also provided with control over the resulting contrast. Everything is possible, from flat light similar to that of a ring flash, to cross flash and macro-flash studio photography (one main light and one for contrast/highlight control).

Duo-Flash can be used in a wide variety of applications, from portraits to extreme macro photography. Shooting at F16 (or F22 with 100mm lens) is possible at magnification ratios from 1:6 to several times life-size. Recommended accessories include the Duo-Flash holder or Flash Bracket with Two Flexible Arms. Cord length is 32" per head, dimensions are 2.5 x 3.3 x 2.2" per head, each head weighs 4 oz. ....224.95



FLASHES & ACCESSORIES

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### GENERATOR

#### *Power Pack for Flash Art, Duo Flash & Ring Flash*



All three Novoflex flash heads connect to a central power pack—the "Generator". It attaches to various cameras by interchangeable adapters. Power is provided by 4 AA batteries. An external power supply is optional.

- ◆ Energy consumption: 110-1350 flashes with alkaline batteries, 65-370 flashes with nicad batteries
- ◆ Flash sequence: 6-0.3 sec. ◆ Dimensions: 2.8 x 5 x 5.2" ◆ Weight: 12 oz.

Generator Power Pack (NOPP): For Flash Art, Duo Flash & Ring Flash .....362.95

*The following interchangeable adapters are available:*

TTL Adapter for Canon (NOATTLGC).....	86.95	TTL Adapter for Nikon (NOATTLGN).....	86.95
Adapter for Canon EOS Cameras (NOAAFGC).....	119.95	AF Adapter for Nikon Cameras (NOAAFNG).....	119.95
TTL Adapter for Contax (NOATTLGCQ).....	86.95	TTL Adapter for Olympus (NOATTLGO).....	84.95
Adapter for Minolta Cameras (NOAAFNGM).....	119.95	TTL Adapter for Pentax (NOATTLGP).....	84.95
AF Adapter for Minolta 5000, 7000 and 9000 (NOAAFNGM5000).....	119.95	Standard Non-Dedicated Hot Shoe Adapter (NOHSAG).....	86.95

### RING FLASH

#### *Diffused Shadowless Flash Light*



The ring flash has a guide number of 46 (ISO 100) and is designed for use in situations where complete frontal lighting or flat, contrast-free light is required. The ring flash head is screwed into the filter thread of the lens (standard 52mm, other sizes with optional stepping rings). For extreme close-ups the shortest effective distance for the flash is 1.2" measured from the end of the filter thread. Cord length is 18" cord length, inside diameter dimensions are 3.5" and 4.7 x 1.2" overall, weighs 4 oz.

Ring Flash (NORF) .....204.95

Ring Flash with Generator (NORPPP).....473.95

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# NOVOFLEX

## FLASH SUPPORT

Novoflex has for many years provided the answer to the problem of positioning and holding flashes: Flash support systems of outstanding stability and adjustability from years of practical experience in the use of flash units and portability through low weight. Now Novoflex introduces the flash support system of the third generation: enormously flexible with minimum space required when on the move, yet infinitely versatile.



### **The Flash Grip** (NOFB)

Mounted on a base plate, the Flash Grip offers the facility to mount a large flash unit securely with ease, either screwed directly onto the ball head, or mounted in the detachable flash shoe. Of particular note are the possibilities of positioning the flash, and the secure handling of the entire assembly, aided by the fitted handstrap. To save maximum space on the move, the handgrip is detachable. Comes with a grip, strap and a ball head. Weighs 15.9 oz. complete .....**142.50**

*The parts which make up the Flash-Grip are also available separately:*

**Base Plate (X-BASIS):** 10 x 1.6 x 0.3", weighs 8.1 oz. (This is the same base plate used by the Duo Flash Holder, and both the Vertical and Horizontal Extension Sets) .....**CALL**

**Grip (X-GRIFF):** With handstrap but no ball head, weighs 5.6 oz .....**CALL**

**Ball and Socket Head (NOMBFS):** With flash accessory shoe, weighs 2.1 oz .....**39.95**

### **Flash-Grip Extension Sets**

To increase the flexibility of the flash mounting systems, Novoflex offers various extension sets for the Flash-Grip. This enables you to implement complex ideas without affecting the stability or compactness of the entire system.

#### **Flash-Grip Extension Set I** (NOEG8)

Rigid grip extension to achieve increased height of the flash by 8". Weighs 1.5 oz .....**38.95**

#### **Flash-Grip Extension Set II** (NOG102)

Flexible arm increases the height of flash and general position in relation to camera body by 9". This is mounted between the grip and the ball head. Weighs 10 oz.....**52.95**

#### **Flash-Grip Extension Set III** (NOEFG)

Variable rod to move the flash freely over a length of 10". As a result you can position the flash directly above the optical axis. But also at a distance of up to 12" from the camera. Whether you shoot in horizontal or vertical format, the flash can always be positioned optimally. Weighs 10 oz.....**69.95**



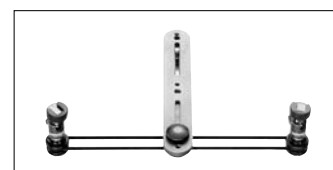
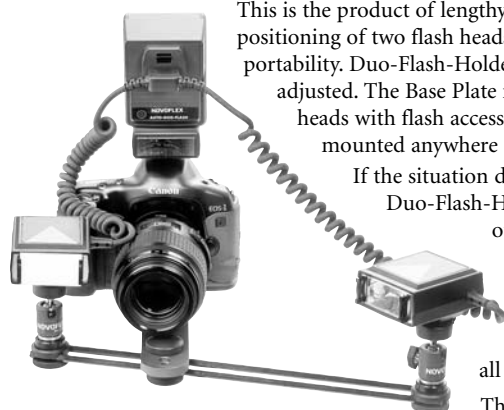
### **Duo-Flash-Holder** (NOHDF)

This is the product of lengthy tests and years of experience in the use of multiple flash. The Duo-Flash-Holder allows free positioning of two flash heads. With it you no longer have to compromise in terms of either ease of use or compactness and portability. Duo-Flash-Holder is the smart answer to these problems. Both flash units can be freely positioned and rapidly adjusted. The Base Plate is mounted to the camera bottom. The Vario-System is equipped with two ball and socket heads with flash accessory shoes, and can be freely twisted and moved along. As the ball and socket head can be mounted anywhere on the rods, you have an infinite variety of positions for your flash.

If the situation demands a change in the setup, this is achieved quickly. At the end of the shooting session, Duo-Flash-Holder is dismantled quickly and is ready to be stored out of the way in almost any gadget bag.

With other accessories from the Novoflex system you can turn the Duo-Flash-Holder into a small flash studio. It is recommended for all application utilizing the Novoflex Auto-Duo-Flash, Flash Art and virtually all commonly available flash units.

The Duo-Flash Holder weighs 13 oz., and is 14.2 x 1.6 x 3.2" when dismantled for storage....**189.95**



# NOVOFLEX

## FLASH SUPPORT

### Extension Set Horizontal (UNIVER-W)

Horizontal Extension of the Vario sliding rod system. The addition of a movable joint opens up many more possibilities to position flash units. Weighs 3.5 oz, 10" length .....CALL

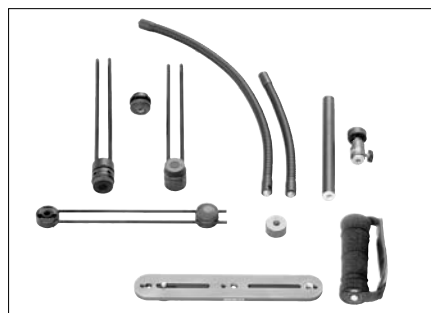


### Extension Set Vertical (UNIVER-W)

Vertical Extension of the Vario sliding rod systems to vary mounting height of flash units. Weighs 3.5 oz, 10" length .....CALL

### Accessories for Flash-Grip and Duo-Flash-Holder

Many other Novoflex accessories lend themselves to be used in conjunction with the flash mounting systems



#### Flexible Long Arm (UNIMOUNT):

Basic Unit of vario Sliding Rod with 1/4" thread .....CALL

Flexible Arm (NOG177): 18" flexible arm, weighs 16 oz .....57.95

Flexible Arm (NOG102): 12" flexible arm, weighs 10 oz .....52.95

Ball & Socket Head (NOMBFS): With Flash Accessory Shoe .....39.95

### OTHER USEFUL GADGETS FOR FLASH PHOTOGRAPHY



#### Large Clamp for Reflector Panel (NOCRP):

Clamp with strong spring to hold flat objects, with 1/4" socket .....49.95

#### Mini Clamp for Staset (NOC SX):

A small, strong clamp with a 1/4" socket .....24.95

#### 6 x 8" Screen (MIRROR):

Weighs 7.2 oz .....CALL

6 x 8" Diffusor Screen (OPAK): Weighs 5.3 oz .....CALL

#### Reversible Reflection Screen (NORS812WG):

Reflection screen 8 x 12" white-gold .....26.50

#### Reversible Reflection Screen (NORS812BG):

8 x 12" black-grey .....27.95



### Flash Bracket with Adjustable Rods (NOFBS)

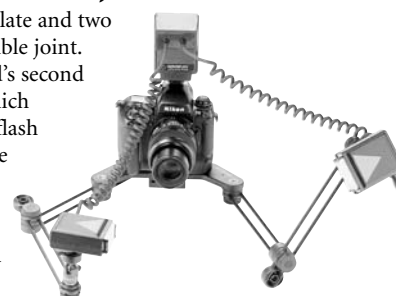
Consists of a sturdy baseplate and two rod sets which have a flexible joint.

The joint can turn the rod's second half in four directions, which permits unique angles of flash lighting. These rods can be moved over a length of 8.7". This set includes

two small ballheads that have a flash accessory shoe, and the rigidity of

the set permits heavy flashes, microphones and video lights to be mounted at all angles. Maximum

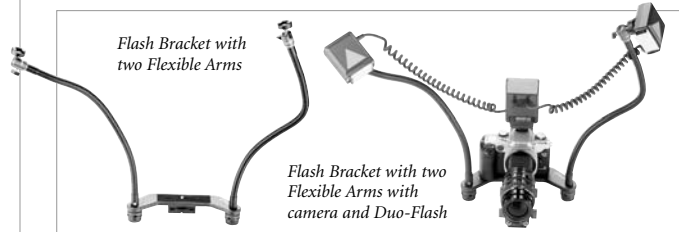
distance between two flash units is 22". Weighs 32 oz .....224.95



### Flash Bracket with two Flexible Arms (NOFBA2)

Flash Bracket with two Flexible Arms

Flash Bracket with two Flexible Arms with camera and Duo-Flash



Features the same 9.6 x 3.1 x 1.6" base plate as above, but is equipped with two 19.5" flexible arms with ball and socket heads and flash accessory shoe. Adjusting the position of the flash units is very quick and easy. Weighs 44.5 oz .....224.95

### ACCESSORIES:

**Short Flexible Arm (NOAS):** An 11.6" flexible arm with a 1/4"-20 threaded hole on the bottom and a small ballhead with a flash shoe on top. Strong enough to hold even the heaviest of shoe-mounted flashes securely in position .....64.95

**Flexible Arm (NOA):** Same as above, but with an 18" arm .....69.95

**Base Plate (NOBP):** The foundation for many of Novoflex's flash bracket system of innovative lighting control. Features a wide stable camera platform with two angled edges that accept various arms, ballheads and other accessories with either 1/4"-20 or 3/8"-16 screws. Dimensions are 9.6 x 3.2 x 1.6" .....124.95

### Macro Flash Holder (NOMFH)



Attaches directly to the lens via an optional adapter ring. A great way to

control the angle and intensity of dual flash lighting at short distances. Maximum distance of flash from lens is 11.8". Two articulating arms have ballheads with flash shoes at their ends to control the flashes, and the entire assembly folds compactly for storage. 11.4 x 3.5 x 3.1" (WHD), weighs 13 oz .....149.95

# SUNPAK

## FLASH & ACCESSORIES

Sunpak is one of the world's largest manufacturers of electronic flash equipment. Sunpak electronic flashes are designed to work with today's auto focus cameras having dedicated flash capabilities. There's even a Sunpak flash unit available for use with Nikonos underwater camera systems. All Sunpak flash units offer advanced features to provide the widest range of creative control, and are supported by a wide range of system accessories.

### NON-DEDICATED SHOE MOUNT FLASHES

#### 144PC

##### Auto Shoe Mount Flash



Powerful, affordably priced thyristor flash with bounce head, two auto f/stops (f/2, f/5.6) exposure OK lamp and "Instant Readout" exposure control. Use with many cameras to provide light to the subject via direct or bounced flash. Equipped with Sunpak-type off-camera terminal and PC-cord. Weighs 6 oz.

- ◆ Guide No. 66 ◆ Auto Range: 2.3–33'
- ◆ 3-second recycle time ◆ Uses 4 AA Batteries

144PC Flash (SU144PC) .....39.95

#### 383 SUPER

##### Auto Shoe Mount Flash

Popular for years, the 383 Super is a frequent choice for those in need of a powerful, manual undedicated flash in a medium size. Used by enthusiasts and professionals alike, the 383 Super features bounce/swivel head, three auto f/stops (f/2, f/4, f/8) manual control with power ratio from full to 1/16 (5-steps) and exposure OK lamp. With a powerful GN of 120 you can employ the bounce effects more frequently, and the manual scale is easy to use. Weighs 12 oz.



- ◆ Guide No. 120 ◆ Auto Range: 2.3–60'
- ◆ Equipped with Sunpak-type off-camera terminal and PC-cord
- ◆ 8.5-second recycle time
- ◆ Runs on 4 AA batteries or optional NC-510 external battery pack or AD-27 AC adapter

383 Super Flash (SU383S) .....69.95

### DEDICATED/FIXED MOUNT FLASH

#### 144D

##### Multi-Dedicated Shoe Mount Flash



Multi-dedicated thyristor flash with bounce. It is suitable for daylight fill flash and light duty. Switch allows flash to be dedicated with Canon, Nikon, Olympus, Minolta, Ricoh, Chinon, Pentax cameras. Features 2 auto f/stops (f/2, f/5.6) exposure OK lamp, and sets shutter speed and readylight. Weighs 5 oz.

- ◆ Guide No. 66 ◆ Auto Range: 2.3–33'
- ◆ 3-second recycle time ◆ Uses 4 AA batteries

144D Flash (SU144D) .....39.95

#### 2000DZ

##### Multi-Dedicated Auto Zoom Shoe Mount Flash



Multi-dedicated thyristor flash with bounce, the 2000DZ features 56-80 guide number and 4-position zoom head (can be manually set to cover 35mm, 50mm, 70mm and 135mm focal lengths). Compatible with Canon FD, Nikon, Olympus, Minolta, Ricoh and Pentax cameras. Also features two auto f/stops (f/2, f/5.6) exposure OK lamp, and sets shutter speed and readylight. Weighs 5 oz.

- ◆ Guide No. 56 at 35mm, 66 at 50mm and 80' at 135mm
- ◆ Auto Range: 2.3–28' ◆ 3-second recycle time ◆ Uses 4 AA batteries

2000DZ Flash (SU2000DZ) .....43.50

#### 355AF

##### TTL Shoe Mount Flash

Great for 35mm AF cameras. A three-position manual zoom head covers 35mm, 50mm and 85mm focal lengths, and the bouncing head offers fulltime TTL dedication with autofocus camera systems.

- ◆ Guide No. 86 at 35mm, 100 at 50mm, 120 at 85mm
- ◆ Focus assist beam on Nikon and Canon cameras
- ◆ 7-second recycle time ◆ Uses 4 AA batteries



355AF (SU355AFCAF)  
Auto for Canon EOS .....46.50

355AF (SU355AFNAF)  
Auto for Nikon AF .....46.50

355AF (SU355AFMAF)  
Auto for Minolta AF .....46.50

355AF (SU355AFPAF)  
Auto for Pentax AF .....46.50



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## DEDICATED/FIXED MOUNT FLASH

### 433D

#### TTL Dedicated Shoe Mount Flash

TTL dedicated flash for Nikon and Minolta with bounce/swivel head. Three auto f/stops (f/2, f/4, f/8), manual control from full to 1/16 power (5 settings).

- ◆ Guide No. 120 ◆ Auto Range: 1.6–60'
- ◆ 7-second recycle time
- ◆ Runs on 4 AA batteries or optional NC-510 external battery pack or AD-27 AC adapter



433D Auto for Minolta TTL (SU433DM).....76.50

433D Auto for Nikon TTL (SU433DN).....76.50

### 433AF

#### TTL Dedicated Shoe Mount Flash



Compact autofocus flash with bounce/swivel head, and fulltime dedicated TTL metering for Nikon, Canon and Minolta AF cameras. (3 f/stop auto ranges, manual control with power ratio to 1/16 power for Nikon version only).

- ◆ Focus assist beam on Nikon & Canon cameras
- ◆ Guide No. 86–120 ◆ Use 4 AA batteries
- ◆ 3–position manual zoom (35/50/85mm)

433 AF for Canon (SU433AFCAF).....86.50

433 AF for Minolta (SU433AFMAF).....86.50

433 AF for Nikon (SU433AFNAF).....6.50

### 444D

#### TTL Dedicated Shoe Mount Flash



A unique flash that accepts Sunpak's complete line of interchangeable dedicated shoe modules. The flash features a detachable 3-position manual zoom (35–15mm) that produces a guide number from 120–170 with ISO 100 film, tilt and swivel control, plus an attached fold-up reflector card for fill-flash capability.

The 3 f/stop (f/2, f/4, f/8) auto range from 1.6–60', and manual control as well as

power ratio down to 1/16 power (5-steps), support creative effects. Power is supplied from 4 AA batteries or from a variety of optional sources, including the TR-PAKIIa nicad power pack or AD-27 AC adapter. Uses the EXT-10 Dedicated Remote Cord for off-camera TTL flash dedication.

- ◆ Guide No. 120 at 50mm
- ◆ Auto Range: 1.6–60' ◆ 12-second recycle time

444D Flash (SU444D).....97.50

### PZ-40X

#### AF TTL Shoe Mount Flash



Available in silver or black, the PZ40X combines high-performance features with innovative design. The unique rounded angles and low-profile provide a more functional design and is the perfect match for current digital and

photo cameras. While compatible with the latest E-TTL (Canon), 3D D-TTL (Nikon) and ADI (Minolta) functions for 35mm digital and film SLR cameras, power-ratio and zoom setting can also be controlled manually in five steps.

- ◆ Even with its smaller size, it has a guide number of 40 (zoom position at 80mm). This greatly extends the distance which can't be covered by any built-in flash and solves under exposure problems.
- ◆ Multi-step auto power zoom with vertical-up 90° bounce. The flash senses focal length and automatically adjusts from 24–80mm.
- ◆ AF Assist light supports better autofocus performance in the dark
- ◆ Compatible with TTL functions of digital and film SLR cameras. Work with TTL Auto, Advanced E-TTL for Canon, 3D Multi-BL and D-TTL for Nikon and ADI for Minolta
- ◆ Choose only the mode you want by simply following the display signs on the large illuminated LCD panel when working with Canon, Nikon or Minolta cameras. For other cameras, Manual Zoom Mode and Power Ratio Mode will give you a big help
- ◆ Power ratio can be manually set in five steps (full, 1/2, 1/4, 1/8 and 1/16)
- ◆ Flash-coverage scale on LCD screen
- ◆ Automatic Shutdown mode after being inactive after 5 minutes
- ◆ Ready lamp (10-second recycle time) and test button
- ◆ 40% smaller in size and 30% lighter than similar flashes, this smaller, lighter configuration allows for easier camera handling

PZ40X (SUPZ40XSNAF): For Nikon AF. Silver color.....124.95

PZ40X (SUPZ40XBNAF): For Nikon AF. Black color.....124.95

PZ40X (SUPZ40XSCAF): For Canon AF. Silver color.....124.95

PZ40X (SUPZ40XBCAF): For Canon AF. Black color.....124.95

PZ40X (SUPZ40XSMAF): For Minolta AF. Silver color.....124.95

PZ40X (SUPZ40XBMAF): For Minolta AF. Black color.....124.95

# SUNPAK

## DEDICATED/FIXED MOUNT FLASH

### MZ-440AF TTL Dedicated Shoe Mount Flash

A TTL flash for 35mm autofocus cameras, the MZ440AF has no manual aperture modes, as it is designed to give full TTL exposure at all apertures. Flash head can be bounced and swiveled for increased lighting control and creative effects. Easy to read display panel has distance readouts in both feet and meters, lens selector setting, ISO selector, flash confirmation light, ready lamp and test button.



- ◆ Guide No. 131 at 50mm, 157 at 85mm
- ◆ Auto Range: 2.3–33'
- ◆ Four detented zoom selector settings (28mm to 85mm), and four detented tilt selector settings (0 to 90°)
- ◆ Includes slide on reflector panel and 20mm ultra wide angle filter
- ◆ 8-second recycle time
- ◆ Uses 4 AA batteries

**MZ-440AF (SUMZ440CAF):** For Canon AF ..... **79.95**  
**MZ-440AF (SUMZ440NAF):** For Nikon AF ..... **79.95**  
**MZ-440AF (SUMZ440MAF):** For Minolta AF ..... **79.95**  
**MZ-440AF (SUMZ440PAF):** For Pentax AF ..... **79.95**

### PZ-4000AF Shoe Mount Flash

Available for Nikon, Canon and Minolta the PZ4000AF automatically adjusts the flash to match the focal lengths of lenses from 28mm to 80mm in four distinct settings. If preferred, the zoom head can be manually controlled at the press of a button. For creative bounce lighting control, the head can be adjusted to 90°.



Offers ample power from 4 AA batteries or the optional TR-Pak IIA Power Pack. To conserve battery power, the PZ4000AF goes into a standby mode if not fired after a few minutes (Sleep Mode). Reactivating the flash requires only a slight touch to the shutter release button of the camera to bring the flash back into a readiness mode.

- ◆ Guide No. 24 at 28mm, 40 at 80mm
- ◆ AF Assist Light supports better autofocus performance in the dark
- ◆ Multi-step auto power zoom with vertical-up 90° bounce. The flash senses focal length & adjusts from 24-80mm.
- ◆ Rear-curtain sync
- ◆ All the necessary information and setting value is displayed on LCD display. By pressing the "Light" button, the backlight will illuminate to help you see in the dark.
- ◆ Illuminated LCD panel displays TTL, manual or fill flash modes, second curtain sync for Canon and Nikon versions and flash confirmation

**PZ-4000AF (SU4000ACAF):** For Canon AF ..... **109.95**  
**PZ-4000AF (SU4000AFNAF):** For Nikon AF ..... **109.95**  
**PZ-4000AF (SU4000AFMAF):** For Minolta AF ..... **109.95**

Specification Chart	2000DZ	355AF	433AF	PZ-40X	MZ-440AF	PZ-4000AF	PZ-5000AF
Guide Number with ISO100 (m/ft)	20/66	30/98 (50mm)	86–120 (80–24mm)	40–20/130–65 (85–20mm)	48–16 (80–28mm)	40–24 (135–28mm)	54–30/177–98
Auto f/stop (ISO100)	f2, 4	—	Full TTL	—	—	—	f2–16
Alkaline Recycle Time (seconds)	3 Sec. (4-AA)	3 Sec. (4-AA)	8.5 Sec. (4-AA)	10 Sec. (2-AA)	8 Sec. (4-AA)	8 Sec. (4-AA)	13 Sec. (4-AA)
NiCad Recycle Time (seconds)	2.5 Sec. (4-AA)	—	8.5 Sec. (4-AA)	8 Sec. (2-AA)	8 Sec. (4-AA)	8 Sec. (4-AA)	7 Sec. (4-AA)
TR-Pak II Recycle Time (seconds)	—	—	—	—	—	1 Sec.	Approx 2 sec.
AC Adapter Recycle Time (seconds)	—	—	—	—	—	13 Sec.	13 Sec. (AD-27)
Alkaline Number Of Flashes	440–2,600	150	—	100	80/500	80/500	100
NiCad Number Of Flashes	160–1,200	—	—	45	80/500	80/500	45
TR-Pak II Number Of Flashes	—	—	—	300	350–	400–1,200	350
Bounce Flash (Vertical / Horizontal)	Vertical	Vertical	V & H	Vertical	V & H	V & H	V & H
Angle Of Coverage (35mm Format)	70° (32mm)	63° to 28° (35–85mm)	63° (35mm)	84°–30° (24–85mm)	75° to 28° (28–85mm)	75° to 31° (28–80mm)	78° to 18° (28–135mm)
Flash Speed (Approx. sec.)	1/1,600–1/25,000	1/500–1/30,000	—	1/500–1/13,000	1/1,000–1/20,000	1/500–1/20,000	1/500–1/30,000
Weight w/o Batteries	6.2 oz	8.1 oz	11.04 oz	7.1 oz	12.7 oz	9.5 oz	13 oz
Dimensions w/o Shoe (HxWxD)	3.8 x 2.7 x 3.6"	3.7 x 2.8 x 3"	3 x 5.7 x 2.8"	3.7 x 2.5 x 3.6"	7 x 3.1 x 2.3"	4.9 x 2.8 x 4"	5.4 x 3.4 x 4.2"



**EQUIPMENT LEASING AVAILABLE**

## DEDICATED/FIXED MOUNT FLASH

### PZ-5000AF

#### AF TTL

#### Shoe Mount Flash



Designed for conventional Canon, Nikon, Minolta and Pentax AF SLRs, the PZ5000AF is a large (13 oz), high-powered unit with a Guide No. of 180 (in feet, at ISO 100 at the 135mm setting) and

includes an auto zoom (and manual zoom) head with settings from 28-135mm.

#### Offers all of the essential features:

- ◆ TTL auto sensor, power ratio options, Auto flash with many aperture choices, manual flash operation, and "stroboscopic" flash.
  - ◆ Supports rear curtain flash, and off-camera slaved flash for wireless non-TTL flash; with Minolta cameras, wireless off-camera flash is TTL controlled.
  - ◆ ISO setting: 6-6400 (1/3 EV steps)
  - ◆ Flash control modes:
    - 3D Multi-BL for Nikon
    - ADI Metering for Minolta
    - TTL Auto Mode
    - Flash Auto Mode (7-step auto exposure) f2 -to - f16 (1/3 EV step)
    - Variable Power Ratio (7 steps): Full- to 1/64 (1/3 EV steps)
    - Multi (Stroboscopic) Flash: 1Hz - 90Hz
  - ◆ Information and settings are displayed on the large, illuminated LCD display.
  - ◆ Goes into a standby mode if not fired after a few minutes (Sleep Mode).
  - ◆ AF Assist Light supports better autofocus performance in the dark
  - ◆ Wireless TTL capability when combined with other PZ-5000 AFs
  - ◆ Bounce flash head movement: Vertical up 90°/down 5°; Horizontal left 180°/right 90°
- PZ-5000AF (SU5000NAF):** For Nikon.....**147.50**  
**PZ-5000AF (SU5000CAF):** For Canon.....**147.50**  
**PZ-5000AF (SU5000MAF):** For Minolta.....**147.50**  
**PZ-5000AF (SU5000PAF):** For Pentax.....**147.50**

### 120J/120JTTL Parabolic Reflector Flashes



The 120JTTL is a parabolic reflector flash that offers through-the-lens flash dedication capability with popular 35mm and medium format cameras. Able to accept the complete line of Sunpak dedicated modules, the 120JTTL is extremely compact, lightweight and easy to operate, yet it produces an impressive guide number of 45/150 (m/ft) with ISO 100 film. Both tilt and swivel movements are provided. When combined with the optional EXT-10 Cord, it permits the 120JTTL to be used off-camera, yet still maintain complete dedicated flash capability.

The flash is powered by the high voltage TR-PAKIIa nicad power pack, which provides 200 full-power flashes at an impressive 1.5-sec. recycle rate or AC adapter. The 120J TTL

can also run on 4 AA batteries, when greater capacity or faster recycling isn't needed.

When TTL flash dedication is either not available or desired, the 120JTTL and its identical non-TTL version the 120J offer three aperture settings, plus manual adjustment (full, 1/2, 1/4, 1/8, 1/16 power) for total creative control. The parabolic reflector can be positioned for normal and wide angle use, or removed for bare bulb lighting that creates a uniquely natural lighting effect.

**120J Auto Bracket/Light Stand Mount Flash (SU120J)** .....**169.95**

**120J Flash Kit (SU120JBP):**  
With TR-PAK IIA Battery Pack and CHG-20 Charger .....**259.95**

**120JTTL Shoe Mount Flash (SU120JTTL):**  
Requires module .....**209.95**

**120JTTL Flash Kit (SU120JTTLBP):**  
With TR-PAK IIA Battery Pack and CHG-20 Charger. Requires module.....**299.95**

### Modules & Cords

Sunpak's DX Series can be attached to most SLR AF cameras and some medium format cameras which have TTL functions. As the battery is fully charged for the first time, shutter speed will automatically set for the optimum speed. You can choose P, AV or TV mode. DX Series also feature Sunpak's unique "Exchange Shoe Mount". An interchangeable "DX shoe" is used for the six different DX series flash models, and it can be used with various cameras by changing the DX shoe.



<b>BR-1D</b> Bronica Dedicated Module for ETRSi and SQAi (SUDMB) .....	<b>84.95</b>
<b>CA1AF</b> Canon Dedicated Module for EOS w/Focus Assist Beam (SUDMCAF) .....	<b>74.95</b>
<b>HA2D</b> Hasselblad Dedicated Module (SUDMH).....	<b>69.95</b>
<b>MX1AF</b> Minolta TTL AF Dedicated Module (SUDMMAF) .....	<b>74.95</b>
<b>MX2D</b> Minolta TTL Dedicated Module (SUDMM).....	<b>31.95</b>
<b>NE1AF</b> Nikon TTL Dedicated Module w/Focus Assist (SUDMNAF) .....	<b>74.95</b>
<b>NE2D</b> Nikon TTL Dedicated Module w/o Focus Assist (SUDMN).....	<b>31.95</b>
<b>NE3D</b> Nikon TTL Dedicated Module for F3 (SUDMNF3) .....	<b>44.95</b>
<b>STD1D</b> Standard Dedicated Module with PC Sync Cord (SUDMS).....	<b>21.95</b>
<b>EXT-9</b> Dedicated Remote Cord for non-TTL Canon & T90 (SUEXT9) .....	<b>39.95</b>
<b>EXT-10</b> Dedicated Remote Cord for all Cameras plus EOS (SUEXT10) .....	<b>39.95</b>
<b>EXT-11</b> Dedicated Remote Cord for 522 and 622 (SUEXT11).....	<b>39.95</b>

# SUNPAK

## HANDLE MOUNT FLASHES

### AUTO 544 Handle Mount Flash

The Auto 544 is the flash chosen by those professionals needing only auto and manual flash control. The 544 has tilt and swivel capability and delivers a powerful 140 guide number (ISO100). Featuring auto thyristor circuitry that provides a 4 f/stop aperture range and auto coverage from 1.6 to 50', the 544 includes power ratio control from full to 1/64 power yet weighs only 25 ounces (without batteries). Accepts a number of power sources, including the CL-2 Nicad Cluster, the high voltage TR-PAKIIa Nicad power pack or an AC adapter.

**544 Auto Handle Mount Flash (SU544):**

With 2' PC cord, camera bracket, AA battery holder and filter holder.....129.95

### AUTO 555 Handle Mount Flash

A powerful, professional handle mount flash with TTL flash dedication capability (requires EXT-11 Cord, and appropriate dedicated module). The Auto 555 features bounce and swivel control for creative lighting effects. A guide number of 150 with ISO 100 film assures ample power. Auto range extends from 1.6 to 107', over a 7 aperture range. In addition to TTL and auto capability, the 555 features manual flash control from full to 1/64 power. The 555 accepts a number of power sources, including the CL-2 Nicad Cluster, the high voltage TR-PAKIIa Nicad power pack or an AC adapter.

**555 TTL Handle Mount Flash (SU555):**

With 2' PC cord, camera bracket, clamp, AA battery holder and filter holder .....169.95

### 622 SUPER PRO Handle Mount Flash

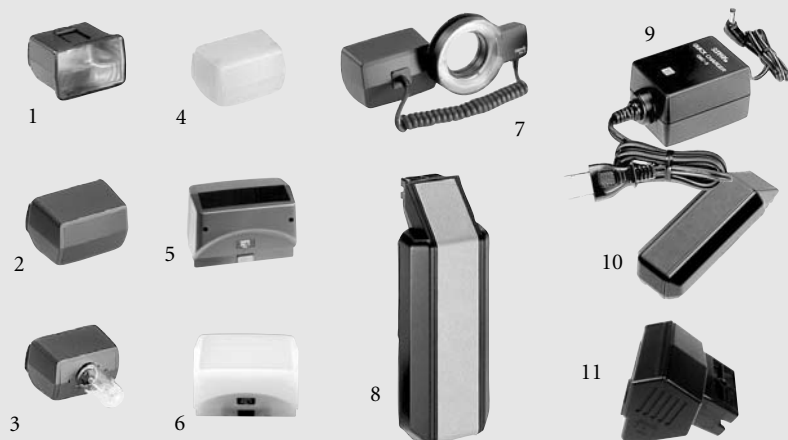
The most powerful handle mount dedicated flash system. Features the ability to use any of 7 interchangeable flash heads (standard, wide angle, zoom, infrared, ringlight, diffused and bare bulb) as well as a wide range of autofocus & TTL dedicated modules. Requires use of EXT-11 Cord, and appropriate Sunpak dedicated module. Has seven auto aperture settings, as well as manual control with power ratio from full to 1/128th power. Able to operate from a variety of power sources, including AC, its boasts an impressive guide number of 60/200 (m/ft) with ISO 100 film. Accepts the TR2000 high voltage battery pack.

**622 Super Pro TTL Handle Mount Flash (Without Head) (SU622S):**

With CG-10 battery cartridge, 10' PC cord and camera bracket .....269.95



### 622 SUPER PRO System Accessories



- 1) Standard (35mm) Flash Head (SUFHS622) .....38.75
- 2) Zoom Flash Head (SUFHZ622) .....49.95
- 3) Bare Bulb Flash Head (SUFHBB622) .....94.95
- 4) Wide Angle Flash Head (SUFHW622) .....36.95
- 5) Infra-Red Flash Head (SUFHI) .....44.95
- 6) Diffused Flash Head (SUFHD622) .....39.95
- 7) Ringlight Flash Head (SUFHRL622) .....79.95
- 8) CG-10 Battery Cartridge (SUCG10):  
Holds 4 nicad or alkaline "C" size batteries .....28.95
- 9) QBC-6 Quick Charger (SUQBC6): .....64.95
- 10) CL-3 Nicad Battery C3luster (SUCL3): .....64.95
- 11) CV-1 Conversion Plug (SUCP):  
When using power sources other than batteries, insert  
CV-1 to the connecting jack of the body, then connect  
with power source .....12.50

## RINGLIGHT & UNDERWATER FLASHES

### D-Macro/DX-12R

#### TTL Macro Ringlight Flashes

The D-Macro and DX-12R are dedicated ringlight flashes that provide even, shadow-free light for medical, industrial or creative applications. They accept the full range of Sunpak dedicated modules and both offer power ratio control over a 5 f/stop range.



#### D-Macro

For 58mm and smaller diameter lenses, the Dmacro provides full exposure accuracy for every camera system

you have just by changing the dedicated module. This enables macro shots of subjects in variable light, because the complexities of macro exposure are easily handled by the TTL measurement. Offers a guide number of 26 with ISO 100 film.

- ◆ Ringlight flash for 49mm- to 58mm filter sizes
- ◆ Accepts TTL and dedicated modules
- ◆ TTL, auto and manual control
- ◆ Has ultra-diffused Opal lens
- ◆ Power ratio—full to 1/64th power
- ◆ **D-Macro (SUDMACRO)** With STD-1D module .....CALL

### DX-12R

The DX-12R is designed to work with 35mm and medium format systems having filter diameters up to 77mm. In addition to its impressive guide



number of 40 with ISO 100 film, the DX-12R has four built-in modeling lamps to assist in focusing. These automatically turn off when the flash is fired.

- ◆ The only TTL dedicated ringlight flash for use on 35mm and medium format camera lenses with filter diameters up to 77mm
- ◆ 4 focusing lamps provide focus assistance in low light
- ◆ Accepts TTL and dedicated modules

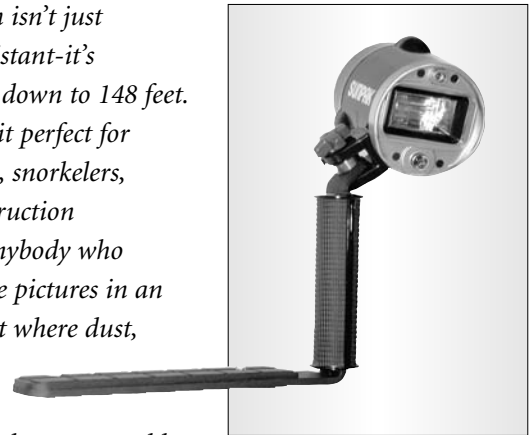
**DX-12R (SUDX12R):** Requires module .....229.95

### G-Flash

#### All Weather/Underwater Strobe

The G-Flash isn't just weather-resistant—it's submersible down to 148 feet.

This makes it perfect for scuba divers, snorkelers, skiers, construction engineers—anybody who needs to take pictures in an environment where dust, sand, snow, rain or



other harsh elements would

destroy an ordinary flash. Thanks to its robust, impact-resistant body, high performance, and user-friendly controls, the Sunpak G-Flash makes it easy for anyone to take great flash pictures under adverse conditions.

- ◆ The G-flash packs a powerful punch. Its ISO 100 guide number 70 gives perfect exposures with subjects at extended distances, and lets you use smaller apertures for increased depth of field.
- ◆ Sensitive built-in slave provides reliable performance even with bounce flash or distant triggering flash. No extra wires or connections needed.
- ◆ The flash is continuously adjustable. By turning a simple rotary dial you can set the output for flash guide numbers from 10-70.
- ◆ Compatible with any underwater, weather-resistant, or standard digital or film camera with a built-in flash and a standard 1/4 x 20" tripod socket. It can also be used with most flash-equipped cameras in underwater housings or protective weather shields
- ◆ The G-Flash is easy to install with attached right-angle bracket and built-in handgrip and actually improves the handling of many underwater cameras.
- ◆ Pre-flash setting on the main control dial, provides reliable sync with cameras using pre-flash for autoflash or distance confirmation.
- ◆ The G-Flash covers a wide angle. It illuminates the 28mm lens field on a 35mm camera with no noticeable light falloff, and with included wide-angle panel, will cover ultrawide-angle lenses down to 20mm.
- ◆ Powered by two AA batteries (alkaline, nicad, or NiMH), it recycles in just 9 sec. with alkaline cells and 7.5 sec with NiMH. A set of alkalines provide about 150 flashes, NiMH batteries about 230. Measures 2.7 x 2.7 x 4.1" (main body) and weighs 16 oz. (with bracket, without batteries).

**G-Flash (SU067G):** Includes bracket, wide adapter/diffuser .....179.50

# SUNPAK

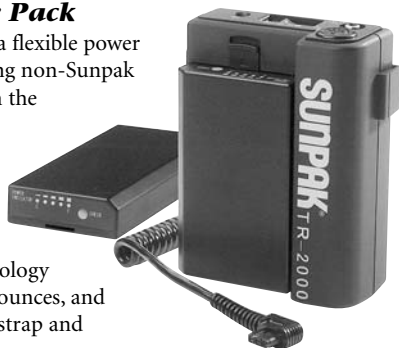
## FLASH ACCESSORIES

### Battery Packs, Chargers and AC Adapters

#### TR-2000 High Voltage Battery Pack

A universal high-voltage battery pack, the TR2000 is a flexible power source for both high and low-voltage flashes, including non-Sunpak brands. Whether you need 6 or 330v, you have it with the TR2000. Compatible with the full range of Quantum Turbo (HV) or Battery 1+ (LV) flash modules.

Continuous, unlimited power is possible simply by swapping interchangeable nicad power clusters. A power status indicator lets you know when to insert a fresh battery cluster, and Memory-Free technology ensures you have 100% capacity every time. Only 24 ounces, and a compact 5 x 6 x 2.5" with battery cluster. Shoulder strap and battery charger included.



- ◆ 270 full power manual shots, and 1000+ automatic shots per charge
- ◆ Ergonomically contoured design with tough, non-slip rubberized surface
- ◆ Microprocessor control for safe, reliable operation, provides regulated high and low voltage outputs
- ◆ Works with fast, snap-in nicad or ultra high capacity 3000mAh "memory-free" NiMH battery cluster
- ◆ On-demand power status with or without battery mounted on power pack
- ◆ Rechargeable up to 1000 times

- TR-2000 High Voltage Battery Pack Kit (SUTR2000):** Includes battery pack, nicad cluster, AC charger and strap. (Requires MC series connector cord) .....**249.95**
- 2400mAh Nicad Battery for TR-2000 (SUNB2000):** Replacement .....**67.50**
- 3000mAh NiMH Battery for TR-2000: (SUNIMHB2000)** .....**89.95**
- MC-3023: 10' 2-Pin High-Voltage Connector Cord for TR-2000: (SU2PCFS)** .....**19.95**
- MC-3024: 10' 3-Pin High-Voltage Connector Cord for TR-2000: (SU3PCFS)** .....**19.95**
- MC-3025 10' 3-Pin High-Voltage Connector Cord (PZ-Series) for TR-2000: (SU3PCPZ)** .....**19.95**



#### TR-PakIIa Battery Pack with Charger

- A high performance battery pack, the TR-PakIIa provides the fastest recycling and most number of flashes of any portable pack. Compatible with the 120J/TTL, DX-8R/12R, 433D/AF, 3600D/AF, 444D, 3600DX, PZ4000/5000, 544, 555 and 622 Super Pro (622 requires CV-1 conversion plug #1168). Includes shoulder strap and 8-hour charger (SUTRP2A) .....**89.95**
- CL-Pak II Battery for TR-Pak IIa Pack (SUBTRP2A)** .....**59.95**

#### 510v Power Pack and 510v Rechargeable Nicad Battery

Compatible with the 383 Super, PZ4000AF, PZ5000AF, Auto 544/555, 622 Super Pro, 120J/TTL, DX-8R and DX-12R.

- 510v Power Pack (SUPP510)** .....**69.95**
- 510v Nicad Battery Pack (SUBN510)** .....**79.95**

#### CL-2 Nicad Battery Cluster (SUCL2)

For use with Auto 522/544/555, the CL-2 provides up to 400 flashes (depending on usage) when fully charged. Recharges in 3 hours via the QBC-5 Quick Charger .....**34.95**

**QBC-5 Quick Charger (SUQBC5):** For CL-2 and NC-510 batteries .....**31.95**



#### QB-3 (SUQB3)

Set of 4 AA nicad batteries .....**33.95**

#### QBC-3 Quick Charger (SUQBC3)

3-hour quick charger for QB-3 nicad batteries .....**66.95**

#### AD-26 100-240v, 50/60Hz AC Adapter (SUAD26)

For use with the 544, 555, 611 and 622 Handle Mount Flashes .....**31.95**

#### AD-27 100-240v, 50/60Hz AC Adapter (SUAD27)

For use with the 383 Super, 422D, 433D+AF, 444D, DX-8R, DX-12R and 120J/TTL ....**31.95**

### Miscellaneous Accessories

#### Bounce Lighting Kit (SUBLK):

Designed for pleasant soft, indirect lighting effects.....**24.95**

**Basic Grip (SUG):** Designed for hot shoe flashes, the Basic Grip features a built-in hot shoe, contoured grip, tripod socket and includes a 35mm Sunpak 12-position bracket .....**41.95**

#### 6x6 Bracket (SUB66):

Medium format bracket base for 522, 544, 555, 611, 622 and Basic Grip.....**CALL**



# SUNPAK

## FLASH ACCESSORIES

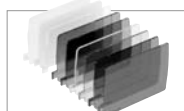
### Tele Kits

Ideal for use with telephoto and zoom lenses of the most popular focal lengths, the Tele Kits actually increase light intensity while decreasing the angle of illumination.

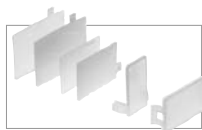
<b>TL-3</b> (SUTL3) Tele Kit for 522, 544, 555 .....	<b>32.50</b>
<b>TL-6</b> (SUTL6) Tele Kit for 422D .....	<b>27.95</b>

### Filter Kits

Red, blue, green, yellow, ND, UV and 85B filters are supplied in a carrying case with two wide angle diffusers.



<b>FK-1 Filter Kit</b> (SUFK1) For 2000DZ, 383, 444D, 433D/AF .....	<b>24.95</b>
<b>FK-2 Filter Kit</b> (SUFK2) For 522, 544, 555, 611 .....	<b>24.95</b>
<b>FK-6 Filter Kit</b> (SUFK6) For 622 Zoom Head .....	<b>29.95</b>



### Diffusion Filters

Provides increased angles of coverage for 20mm and 28mm lenses:

<b>20mm Diffusion Filter</b> (SUD20544) For 522, 544 & 555 .....	<b>8.50</b>
<b>28mm Diffusion Filter</b> (SUD28544) For 522, 544 & 555 .....	<b>8.50</b>

### Filter Holder

Permits you to attach the filter kit onto the front of the flash.



<b>FH-11 Filter Holder</b> (SUFH522) For 522, 544, 555 .....	<b>12.50</b>
<b>FH-12 Filter Holder</b> (SUFH444) For 383 Super, 422D, 433D/AF, 444D .....	<b>12.95</b>



### Extension Cords

PC male to PC female extension cords which permit you to operate the flash unit away from the camera.

<b>3' Extension PC Cord</b> (SUPCE3) .....	<b>9.50</b>
<b>10' Extension PC Cord</b> (SUPCE10) .....	<b>9.95</b>
<b>15' Extension PC Cord</b> (SUPCE15) .....	<b>9.95</b>



### DigitFLASH 500/1000

The DigitFlash 500 and DigitFlash 1000 are 500 w/s and 1000 w/s flat panel flashes with a dimmable fluorescent modeling light. The power of the flashes range from full to 1/32 power. These unique flashes provide soft, even illumination for 3/4 length portraits or medium size product shots, eliminating the need for a softbox, and takes up a fraction of the space of a conventional strobe with softbox.

- ◆ Quiet, and cool-running, with long-life linear flash tubes and flicker-free fluorescent modeling light.
- ◆ Portable and lightweight.
- ◆ Dual sensitive slaves ensure synchronization with other strobes.
- ◆ Rear control panel offers full control over flash and modeling light output.

<b>DigitFlash 500</b> (SUMDF500) .....	<b>494.95</b>	<b>DigitFlash 1000</b> (SUMDF1000) .....	<b>659.95</b>
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### DigitLITE 600

The DigitLite 600 is a fluorescent light panel that provides daylight-balanced, flicker-free constant light. It is suitable for use with digital or film cameras, and is less than 3" thick. The 5600° K light output is very soft, coming from 6- 24 watt tubes. The electronic ballast offers full adjustment of power level.

- ◆ Soft, uniform, diffused light.
- ◆ Low power consumption.
- ◆ This size is suitable for a head-and-shoulders portrait, or small product setup.

<b>DigitFlash 600</b> (SUMDL600) .....	<b>374.95</b>
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### FP-38 Flat Panel Flash

The slim FP-38 is less than one 1" thick and weighs only 9.8 ounces. It mounts onto any camera using the supplied "Hot Shoe" mounting bracket. It can also be mounted using the optional "L" shaped handgrip or the Mini Tripod with Extension Arm. Two FP 38 units can be mounted together on one Hot Shoe bracket and can be simultaneously fired with the built-in slave feature.



- ◆ Can be mounted horizontally or vertically.
- ◆ Large, diffused surface area creates a soft box effect.
- ◆ Powered by 4AA batteries or the Sunpak Universal AC Adapter Kit (ACC-M1035-01)

<b>FP-38 Flat Panel Flash Kit</b> (SUPP38): Includes sync cord and 4 AA batteries .....	<b>74.95</b>
<b>Flash Grip and Extension Arm</b> (SUMCEFFGEA) .....	<b>44.95</b>

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# VIVITAR

## DEDICATED & NON-DEDICATED FLASHES

### 16M/16A

#### Manual/Automatic Flashes



Ideal for travel or basic photography, the 16A (automatic), or 16M (manual) flashes feature a hot shoe and PC cord, GN of 52 (ISO 100/ft.), and an easy-to-use calculator chart. They also have a flash test button and flash ready indicator.

16M Manual Flash (VI16M) .....12.95  
16A Auto Flash (VI16A).....14.95

### 2000

#### Auto Flash with Bounce

Ideal for travel or basic photography or as a second flash unit, provides an auto flash range to 28' (with f/2.8 lens at ISO 100/ft.)



- ◆ Hot shoe and PC cord
- ◆ Flash test button and flash ready indicator

- ◆ Permanently secured hinged battery compartment cover
- ◆ Easy-to-use calculator chart

2000 Auto Flash (VI2000) .....19.95

### 2800

#### Auto Flash with Bounce



- ◆ Guide number 80 (ISO 100/ft.) for auto flash range to 40'
- ◆ Four position bounce head for soft, even lighting
- ◆ Unique control panel for ease-of-use

- ◆ Delivers 450-3000 flashes per set of AA batteries. Recycles in .5 to 5 seconds
- ◆ Includes a wide angle filter for lens coverage to 35mm, and a color filter kit (red, green, blue and yellow filters)
- ◆ Auto Thyristor circuitry for faster recycle time and longer battery life

2800 Auto Flash (VI2800) .....34.95

### 560D

#### Dedicated Shoe Mount Flash for Manual Focus Cameras

Ideal for travel or basic photography or as a second flash unit, the 560D has a GN of 80 (ISO100/ft.), provides an auto flash range to 33' (f/2.8 lens using ISO 100 film) and is dedicated to manual focus 35mm SLRs including Canon, Minolta, Nikon and Pentax. It features a manual zoom head for telephoto and wide angle adjustable coverage as well as a flash test button and flash ready indicator. It also incorporates auto off circuitry that turns the flash off when not in use and an easy-to-use calculator chart.

560D Dedicated Shoe Mount Flash (VI560DF): For Canon, Nikon, Minolta and Pentax manual focus cameras .....39.95



### 728AF

#### Zoom Flash for SLR Autofocus Cameras



The 728AF flash head manually zooms to match 35mm, 50mm or 85mm focal lengths, while the 7-position (0-90°) vertical bounce flash provides softer, more professional quality lighting. Other features include automatic operation for easy flash photography, Auto Thyristor circuitry for fast recycle time and long battery life, auto check confirmation and flash ready indicator, and an easy-to-use sliding calculator scale. GN is 92 (ISO 100/ft.).

728AF Zoom Flash: For Canon EOS (VI728AFCAF), Minolta Maxxum (VI728AFMAF), Nikon AF (VI728AFNAF), and Pentax AF (VI728AFPAP) .....42.95

### 730AF

#### Zoom Flash for SLR Autofocus Cameras

Stepping up from the 728AF, the 730AF features full TTL operation with a host of camera systems, so you are assured of accurate exposure in most situations. And with Infrared autofocus assistance, the 730AF can actually help the camera achieve focus when operating in low light and low contrast scenarios. In addition, the flash head manually zooms to match 28mm, 35mm, 50mm or 85mm focal lengths—and swivels (150° right, 180° left). Also offers variable high or low power. GN is 92 (ISO 100/ft.).

730AF Zoom Flash: For Canon EOS (VI730AFCAF), Minolta Maxxum (VI730AFMAF), Nikon AF (VI730AFNAF), and Pentax AF (VI730AFPAP) .....64.95



### 850AF

#### Power Zoom Flash for SLR Autofocus Cameras



The 850AF is Vivitar's flagship autofocus unit, equipped with features normally only with expensive professional units. It steps up from the 730AF with a power zoom to match 28mm, 35mm, 50mm or 85mm focal lengths (as well as manual control), 4-setting power ratio (full, 1/2, 1/4, 1/8) and first or second curtain flash sync. For convenience it goes into standby mode after 3 minutes and has a permanently secured hinged battery compartment cover. Like the 730AF it offers full TTL operation with a host of camera systems, so you are assured of accurate exposure in most situations, and with Infrared autofocus assistance, can actually help the camera achieve focus when operating in low light and low contrast scenarios. GN is 120 (ISO 100/ft.).

850AF Zoom Flash: For Canon EOS (VI850AFCAF), Minolta Maxxum (VI850AFMAF), and Nikon AF (VI850AFNAF) .....124.95

## DEDICATED & NON-DEDICATED FLASHES

### 283

#### Professional Auto Shoe Mount Flash

The most popular electronic flash unit in the history of 35mm photography. The 283 is durable and powerful, yet simple and inexpensive.

- ◆ Guide number 120 (ISO 100/ft.), powerful automatic exposure range from 3- to 43'
- ◆ 4 auto f-stop settings for controlling depth-of-field and maximum auto flash range.
- ◆ Vertical bounce flash (45°, 60°, 75°, 90°) for softer, professional quality lighting.
- ◆ Removable flash sensor can be camera mounted with the optional SC-1 (straight) or SC-2 (coiled) sensor extension cords, allowing automatic exposure when using side bounce flash photography.
- ◆ Optional VP-1 variable power control for convenient fill flash and rapid sequence photography.
- ◆ Auto Thyristor circuitry for faster recycle time and greater number of flashes.



### 285HV

#### Professional Auto Shoe Mount Flash

Stepping up from the 283, the 285HV accepts optional high voltage power sources, is equipped with a 3-position zoom flash head, and has built-in vari-power control.

#### Same features as the 283 PLUS—

- ◆ Guide number 120 (ISO 100/ft.), powerful automatic exposure range from 3- to 70'.
- ◆ Powered by 4 AA batteries, 510v battery, NC-3 nicads, or SB-4 AC adapter.
- ◆ Three-position zoom flash head (35mm, 50mm and 105mm)
- ◆ Vertical bounce flash (0°, 45°, 60°, 90°) for softer lighting.
- ◆ Removable flash sensor can be camera mounted with the optional SC-3 sensor cord, allowing automatic exposure when using side bounce flash photography.
- ◆ Built-in vari-power (1/2, 1/4, 1/16) for convenient fill flash and rapid sequence photography.

Vivitar	560D	728AF	730AF	850AF	283	285HV
Guide Number ISO @ 100 ft.	55-90	92	115	120	120	120 (50mm)
Angle of Coverage (35mm)	28/35/50/85mm	35/50/85mm	28/35/50/85mm	28/35/50/85mm	35mm	28/35/50/105mm
TTL Mode	Yes	Yes	Yes	With All Configs.	No	No
Bounce Adjustment	0-90°	0-90°	0-90°	0-90°	0/45/60/90°	0/45/60/90°
Swivel Head	—	—	150° right, 180° left	0-330°	—	—
Recycling Time: (Manual/Auto)	6 sec. / 0.5-6 sec.	5 sec.	8 sec.	.5 - 8 sec.	11 sec	10.4 sec. (Alkaline)
Power Source	4AA	4AA	4AA	4AA	4AA, NC-3 NiCad	4AA, NC-3 NiCad
Weight	9.9 oz.	7.0 oz.	7.0 oz.	13.59 oz.	13.5 oz.	14.oz.
Dimensions (HxWxD)	6.8 x 2.7 x 1.6"	4.5 x 2.7 x 3"	7.3 x 2.9 x 1.9"	5.4 x 2.6 x 1.9"	4.9 x 3.7 x 3.7"	4 x 5.2 x 4.2"



### 5000

#### Macro Ring Flash

Ideal for photographing insects, stamps, coins or other intricate objects at close range. Offers a choice of manual or automatic operation. Auto exposure range of 1.0 to 31'.

- ◆ Two AA alkaline batteries provide 120 flashes with 10-second recycling
- ◆ Auto-off circuitry prolongs battery life.
- ◆ Comes complete with PC cord and 49mm, 52mm and 55mm adapter rings.
- ◆ Orange flash ready light and convenient flash test button.

5000 Macro Ring Flash (VI5000) .....89.95

### 6000AF TTL Autofocus Macro Ring Flash



When shooting at extremely short distances, relatively minor movement of lighting and subject results in relatively large changes of exposure. Shooting quick-moving subjects in rapidly changing conditions becomes an exercise in dependency on film latitude. Designed for Nikon, Canon, Minolta and Pentax AF

cameras, the 6000AF features TTL operation allowing accurate exposures of closeup subjects. TTL metering eliminates the need for lengthy calculations of exposure, because the inherent loss of light at macro distances can automatically be accounted with ease.

- ◆ Provides an auto range up to 10'
- ◆ Flash test button and flash ready indicator

6000AF TTL Autofocus Macro Ring Flash: For Canon EOS (VI6000CAF), Minolta Maxxum (VI6000MAF), Nikon AF (VI6000NAF), and Pentax AF (VI6000PAF).....99.95

# VIVITAR

## FLASH ACCESSORIES

### SC-1 Sensor Cord

4' cord connects the 283's flash remote sensor to the flash for off-camera automatic flash photography.

SC-1 Sensor Cord (VISC1) .....29.95

### SC-2 Sensor Cord

6.5' coiled cord connects the 283's flash remote sensor to the flash for off-camera automatic flash photography.

SC-2 Sensor Cord (VISC2) .....34.95



### SC-3 Sensor Cord

4' coiled cord connects the 285 and 285HV's flash remote sensor to the flash for off-camera automatic flash photography.

SC-3 Sensor Cord (VISC3) .....34.95

### PC-1 Sync Cord

1' cord connects the 283, 285HV to the camera's PC contact for off-camera flash operation.

PC-1 Sync Cord (VIPC3) .....8.95

### PC-31 Sync Cord

3.3' coiled cord connects the 283, 285HV to the camera's PC contact for off-camera flash operation.

PC-31 Sync Cord (VIPC31) .....14.95

### NC-3 NiCad Battery

For the 283, 285HV, and Series 1 600 flash units, the NC-3 is a four-cell nicad battery that produces faster recycling time than disposable alkaline batteries. Provides approximately 45 manual full power flashes.

NC-3 NiCad Battery (VINC3) .....CALL

### AP-1 Battery Holder

Retains 4 AA alkaline batteries inside battery compartment of flash units and pistol grip. Replacement for the original battery holder.

AP-1 Battery Holder (VIAP1) .....8.95

### FK-1 Flash Filter Kit

For the 283, kit includes ND4, 85B, UV, Red, Blue, and Yellow filters, and a pouch.

Requires FA-1 adapter.

FK-1 Flash Filter Kit (VIFK1) .....14.95

### WFK-1 Flash Filter Kit

Includes red, blue, yellow, 85B, ND4, UV and clear wide angle diffuser. Requires the FA-1 adapter. Includes a filter pouch.

WFK-1 Flash Filter Kit (VIWFK1) .....14.95

### LK-1 Flash Lens Kit

For the 283, includes four lenses (24mm, 28mm, 70mm, and 135mm) and pouch.

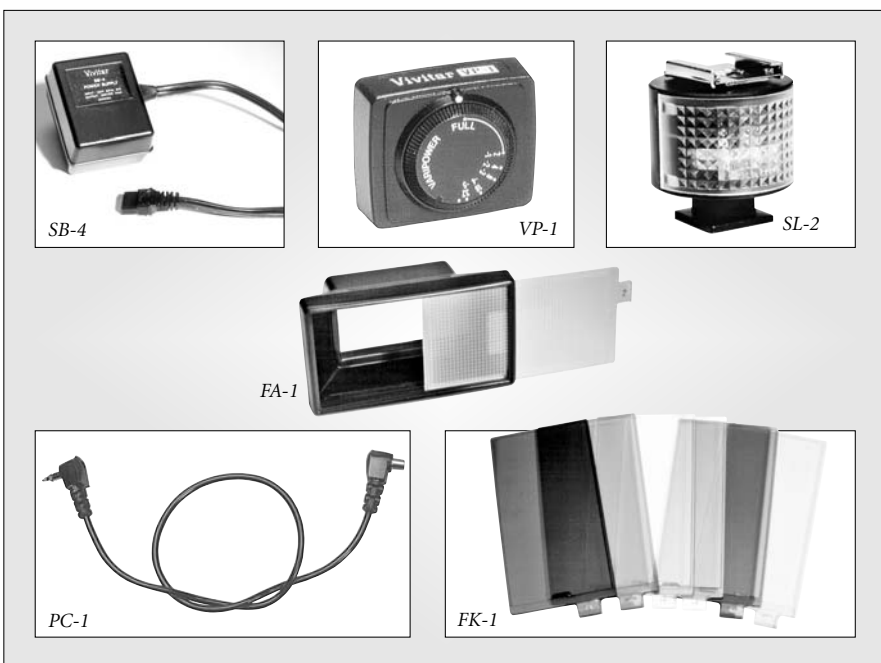
Requires FA-1 adapter.

LK-1 Flash Lens Kit (VILK1) .....22.95

### FA-1 Filter Adapter

This filter adapter allows use of FK-1 and WFK-1 filters and LK-1 flash lens kit on the 283 Flash.

FA-1 Filter Adapter (VIFA1) .....12.95



### VP-1 Vari-Power Adapter

Interchangeable with 283's standard sensor to permit variable light output. Continuous adjustment settings for 1/64, 1/32, 1/16, 1/8, 1/4, 1/2, and full power. As power is reduced, flash duration is shortened to as little as 1/30,000 second for freezing fast action.

VP-1 Vari-Power Adapter (VIVP1) .....29.95

### SL-2 Remote Flash Trigger

Used for remote cordless firing of off-camera flash. Ideal for multiple lighting portrait set-ups. Mounts to camera's flash shoe, light stand, or tripod with 1/4-20 screw. High-low sensitivity switch. 360° rotating hot shoe on top for flash unit. Includes PC contact.

SL-2 Remote Flash Trigger (VISL2) .....34.95

### SB4 AC Adapter

This AC Adapter lets you run the 283 or 285HV on 110V AC power.

SB4 AC Adapter (VISE4) .....26.95

### Wein FFA Replacement Foot/Slave for 283/285HV

150' range hot shoe slave with a plus: can be used to permanently repair broken flash foot on any Vivitar 283 or 285 flash unit. Features household-style sync terminal (automatically overrides slave), 1/4"-20 threaded socket, for tripod/lightstand mounting and hardware necessary to make Vivitar repairs. No hard-wiring necessary.

Wein FFA Replacement Foot/Slave for 283/285HV (WEFSV285) .....49.95



# SP STUDIO SYSTEMS

## DC SLAVE STROBES

### Mini Bare Bulb Slave Flash

The DC Mini Bare Bulb Slave is a workhorse that boosts or fills in with any electronic flash by means of its built-in slave. Fits a crowded camera bag on the road and takes on any number of chores in the studio.

- ◆ Has an 'angle cut' case design which allows it to be positioned at any angle
- ◆ 300 flashes with fresh batteries
- ◆ 4-second recycling time
- ◆ GN of 20 feet/ISO 100
- ◆ 120° angle coverage
- ◆ 2.5" diameter x 2 1/2" high

**Mini Bare Bulb Slave Flash (SPMBBS) ....22.95**

### Mini Slave Flash

Use this DC flash unit for lighting small groups of people, as an accent, or background light. It features a standard (1/4") tripod mount socket, and built in slave. It can be used with the included suction cup mount for convenient placement.

- ◆ Select between slave, or sync triggering.
- ◆ Has a "diamond cut" case design which allows it to be positioned at any angle
- ◆ 260 flashes with fresh batteries
- ◆ 8-second recycling time
- ◆ GN50 ft/ISO100, GN30 ft/ISO100 (with diffuser in position).
- ◆ Coverage is 40° horizontal x 55° vertical
- ◆ Measure 2.5 x 2 1/2 x 1 1/2"

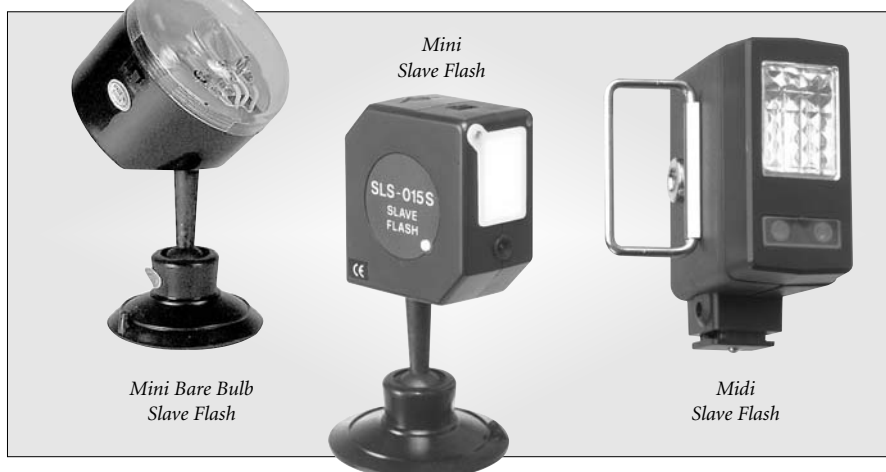
**Mini Slave Flash (SPMS) .....24.95**

### Midi Slave Flash

Use this DC flash unit for lighting small groups of people, as an accent, or background light. Features built-in slave trigger, hot shoe for on-camera use. Swing away bracket for low angle adjustments. Built-in 1/4-20 mount for use on light stands, tripods and brackets.

- ◆ Extra power for fill light, side light or background light.
- ◆ GN 45 with ISO 100 film.
- ◆ 50° angle of coverage.
- ◆ 4-second recycling time
- ◆ Select between slave, or sync triggering

**Midi Slave Flash (SPM) .....24.95**



## InterFit eFlash Flat Panel Flash



*A slim, portable flat panel flash that provides softer light than a conventional on-camera flash. It attaches to a camera hotshoe or can be mounted to either a flash bracket or mini tripod, both available separately. Ideal for digital cameras, these units offer a much softer light than conventional camera flash. The hotshoe mounting bracket will accommodate a second eFlash for even softer lighting. If you use a ring flash, you can add an eFlash as a background light to make the background shadows softer.*

- ◆ Can be mounted horizontally or vertically.
- ◆ Built-in slave "sees" the light from other flashes, and triggers instantaneously.
- ◆ Large, diffused surface area creates a soft box effect. ◆ Powered by 4AA batteries

**eFlash Panel (PAEF): Includes PC cord.....74.95**

### Flash Grip and Extension Arm (PAFG)

Designed for the Interfit E-Flash, but will work with any shoe-mount flash and small 35mm or digital camera. It extends the height of the flash, thus removing background shadows of a subject from the picture frame.....42.50

### Mini Tripod with Extension Arm (PAMT)

With flash shoe connection. This mini-tripod features an extended arm that supports the eFlash, or any other lightweight shoe-mount flash .....32.95

# MORRIS

## AC SLAVE STROBES

FLASHES & ACCESSORIES

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The introduction of the original Morris AC slave let photographers turn any room into a flash-lit studio. Now you can choose from six models of AC slaves. With angles of coverage from 50° to 180°, Morris AC's offer unlimited versatility. All AC Slave flashes are powered by any standard 110v AC lamp base socket.

### AC Slave II

Expand your capabilities without sync cables. The AC Slave II boosts or fills in with any electronic flash by means of its built-in slave. Fits in any camera bag on the road and takes on any number of chores in the studio. Simply screw it into any 110v AC socket. Use a room's existing light or lamp sockets to create natural looking room lighting with flash.

- ◆ Provides 50° beam spread coverage
- ◆ 21 W/s of power, Guide Number of 66 (ISO 100, ft.)
- ◆ Green and red LEDs indicate AC power and recycle status



MOACS2  
\$34.95



### AC Super Slave (MOACSS)

Same as the AC Slave II except more powerful, the AC Super Slave steps up with 30 W/s of power and offers a GN of 72 (ISO 100, ft.) so you can throw light further or operate at higher f-stops. And with 70° of flash coverage, it can be used as a main light, a supplementary fill light or even as a background light.

Recycles in 5 seconds .....49.95

### Master AC Slave (MOMACS)

A coiled 4' removable sync cable and built-in slave let this unit function as either a main or slave light. As a master unit, it connects to a camera's PC terminal by its coiled, removable 4' sync cord. As a slave, it 'sees' the light from your first flash, and fires instantaneously. One Master AC Slave and one or three AC Slave II's are perfect for copystand use. The Master AC Slave has a GN of 66 (ISO 100, ft.), delivers 25 W/s of power, offers 50° of coverage, and recycles in 4 seconds. When used as the master flash, it requires an optional 6-volt PX28 battery .....38.95



### Wide 100 AC Slave (MOW100ACS)

As its name implies, this slave provides 100° coverage and is ideal for direct lighting when using wide angle lenses or for broad and soft coverage. To concentrate power from a single direction, use multiple Wide 100 AC's to boost the f-stop. Like the other Morris AC Slaves, it is triggered by your main flash unit through a built-in slave sensor. The lamp base fits any standard 110v light socket. The Wide 100 has a GN of 36 (ISO 100, ft.), offers 32 W/s of power and recycles in 5 seconds. Green and red LEDs indicate AC power and recycle status.....44.95



### AC Bare Bulb Slave (MOACBBS)

For maximum coverage, the AC Bare Bulb Slave features a U-shaped flash tube firing into a diffused dome for broad coverage. Because of its small size, the output still has fairly high contrast, and is ideal to light backgrounds for environmental portraits. Designed to deliver even light to the widest area, the Bare Bulb Slave also makes an excellent general coverage light. When used for portraiture, it delivers a slightly softer light than the other AC's. It can also be used to replace standard household light bulbs in architectural interiors. Features a GN of 26 (ISO 100, ft.), 22 W/s of power and recycles in 5 seconds.....49.95

### 3-Way AC Slave (11141)

Now you can get spot lighting, wide lighting & warming color out of the same AC Slave Unit. Three removable filters control the light output, whether high contrast accent light with 75° of coverage, a diffused fill light with 100° of coverage or a warm tone highlight. The built-in slave circuit fires in perfect sync when another flash fires. It's the same size as a regular light bulb and like all other AC slaves, threads into a standard AC lamp socket. GN of 18 with ISO 100 film .....CALL



### Umbrella Clamp Socket (MOCSQ)

The umbrella clamp socket with spring clamp lets you place your light anywhere without a stand! The jaws spread to 2 inches and have a rubber coating to protect the mounting surface. The clamp has a socket with built-in AC power cord and on/off switch on the socket. Compatible with most umbrellas .....CALL



### 5 Piece Filter Set:

Create special effects with this set of filters for the AC Slave II with red, blue, green, yellow and 80° diffuser clip on domes.

5 Piece Screw-in Color Filter Set (MOFSCACS2) .....17.95

### Three Piece Color Filter Set (MOFSACBBS):

This set of 3 colored filters adds punch to your Super, Wide 100, Bare Bulb or DC Super Slaves. The filters are red, green and yellow.....13.95



ONE HOUR FREE PARKING

AT 349 W. 34th STREET (with purchase of \$100 or more)

# MORRIS

## DC SLAVE STROBES

*Morris liberates creative potential with powerful, inexpensive miniature flash units that allow you to direct light exactly where you need it. Shoot with greater range, smaller f-stops and increased depth of field. Morris Slaves are triggered by any flash and deliver extra light for contrast control, backlighting and fill lighting. Ideal for interior photography. Their small size also makes them the ideal companion for compact point-and-shoot cameras, adding no extra bulk to your camera bag. Hide Morris Slaves anywhere in the picture. They offer endless possibilities for the imaginative photographer.*

### Mini Slave Flash II (MOMS2)

Use this DC flash unit for lighting small groups of people, as an accent, or background light. It features a standard (1/4") tripod mount socket, and built in slave. Compact and powerful, it can be triggered by your camera or another flash. Includes a wrist strap, diffuser and sync cord.....**31.95**



### Mini Slave Flash Plus (MOMSP)

Use this DC flash unit on the camera, for groups, as an accent, or as a background light. It features a shoe mount, a hi-low power switch and built in slave. Slaveless cap at strobe use. PC-PC sync cord. Includes a detachable wide adapter.....**39.95**



### Midi Slave

Same as the Mini Slave Flash II except a little more powerful. Features a Guide Number of 56 with ISO 100 film vs. GN of 36. Available in white (MOMSW) or black (MOMSB) .....**36.95**



### Maxi Slave

This is DC flash unit capable of hot shoe mounting to a camera. Use it for lighting small groups of people, as an accent, or background light. It features a hi-low power switch, and built in slave. It can be used with Morris' optional suction cup mount for convenient placement. Available in white (MOMSWQ) or black (MOMSBQ) versions .....**49.00**

### Mini Slave Wide PLUS (MOMSWP)

Same as the Min Slave Wide, the PLUS version can be triggered by your camera or another flash, has a built-in test button, and features a standard (1/4") tripod mount socket. Can also be used with Morris' optional suction cup mount for convenient placement .....**31.95**

## Optional Accessories

**Suction Cup (MOSQ):** Stick it almost anywhere. For use with the Mini Slave Flash II, Mini Slave Wide Plus & Midi Slave.....**4.95**

**Popular Shoe Slave (MOPSSA):** When you need to fire a second flash unit that doesn't have a built-in slave sensor, here's the answer. It will fire a shoe mount or PC cord attached flash unit up to 60' away. Comes with a locking hot shoe, PC socket and a tripod socket.....**23.95**

### DC Super Slave Kit

Like the AC slaves, the DC Super Slave is triggered by any flash unit through its built-in slave sensor or a radio slave. Compact power supply case uses 8 AA batteries for up to 500 flashes (3-sec. recycle time) and comes with shoulder and belt straps and a 4' power cord to give you freedom of movement. Green and red LEDs, mounted under the dome indicate power and recycle status.



MODCSK  
**\$99<sup>95</sup>**

- ◆ Guide number of 82 with ISO 100 film; 70° of coverage
- ◆ Includes swivel socket clamp, battery pack, sync cord
- ◆ Open flash test button is provided
- ◆ Spring clamp includes a ball joint for full movement

## Impact AC Radio Slave System

Impact offers an economical alternative to 4, 16, and 32-channel radio slaves:

A one channel radio slave system for firing an off-camera strobe without using extended sync cables. This allows a photographer who uses AC powered monolights or strobes to fire a strobe up to 50' away from a camera's hot shoe or PC terminal. Ideal for those who want the convenience of a closed-radio channel firing system, without the expense of additional channels.



IMACRSSK  
**\$124<sup>95</sup>**

- ◆ The receiver is always ready; it operates in-line with most AC strobes' power cables, eliminating the worry of receiver battery failure (not including older, round-plug AC units).
- ◆ System includes adapter cords to fire almost any off-camera AC strobe (except for those having a 2-prong household style receiver.)
- ◆ An on-camera strobe may be fired in tandem, using the transmitter's included Super-Mini to Male PC sync cord (flash with on-board PC terminal recommended).
- ◆ Test fire button on the transmitter permits confirmation of your flash system.
- ◆ A flash meter may also be fired from the transmitter by using your PC cord.
- ◆ Included 12v transmitter battery lasts up to 10,000 firings

# LUMIQUEST

## POCKET BOUNCERS

### Flash/Lighting Control Accessories

A photographic flash is a small, high intensity source of light which produces generally harsh, unattractive shadows. The quality of this light has been a concern to photographers since the introduction of the flash. Over the last two decades, LumiQuest has developed the most effective and comprehensive line of photographic flash accessories in the world. Their bounce and diffusion devices improve both digital and film photography for millions of professionals and serious amateurs.

By incorporating proven laws of physics into their design, LumiQuest has become the world leader in "hand-held" flash light modifiers. Their bounce and diffusion devices fit a wide range of popular flashes from Nikon, Canon, Sunpak, Vivitar, Quantum, Metz, and others. The ProMax System is a six-piece light modification kit that allows photographers to deal with a variety of lighting situations on location. Whether you select a Pocket Bouncer, UltraSoft, 80-20, Big Bounce, one of their SoftBoxes or the complete ProMax System, you can be assured of fast, convenient improvement over direct flash.



#### Pocket Bouncer

The Pocket Bouncer enlarges and redirects light at a 90° angle from the flash to soften the quality of light and distribute it over a wider area. While no exposure compensation is necessary with automatic flashes, operating distances are somewhat reduced. It folds flat to 4½" x 7¼"

**Pocket Bouncer (LUPB) .....18.49**

#### Pocket Bouncer & MidiBouncer Application:

To soften flash light quality with minimal light loss. To be used with slaves or alone where low ceilings are not available, or where more direct but soft fill light is desired. Light loss is approximately 1-1/3 stops.

#### MidiBouncer

Designed for use with larger professional flashes, the MidiBouncer enlarges and redirects the light at a 90° angle from the flash to soften the quality of light and distribute it over a wider area. Horizontal coverage is approximately 80°. While no exposure compensation is necessary when using the automatic features of the flash, operating distances are somewhat reduced. Folds flat to 5½" x 8¼".

**MidiBouncer (LUMB) .....19.95**



#### 80-20 Pocket Bouncer

The 80-20 enlarges and redirects 20% of the light at a 90° angle from the flash and allows 80% of the light to pass on, to be redirected by another surface — most likely a ceiling.

- ◆ Application: It illuminates the scene with light bouncing off the ceiling while providing "fill" light off the bounce device itself. For use where an 8-9' ceiling is available.
- ◆ Light Loss: Variable depending on ceiling height.
- ◆ Dimensions: Folds flat to 4½" x 7¼"

**80-20 Pocket Bouncer (LUPB8020) .....19.49**

#### UltraSoft

The UltraSoft enlarges and redirects the light at a 90° angle from the flash and then further softens the light by passing it through a frosted diffuser.

- ◆ Application: To achieve an extremely soft look with minimal shadows. For use on an individual flash or to softly illuminate the background in a multiple flash setup. Ideal for close-ups and portraits.
- ◆ Light Loss: Approximately 2½ stops.
- ◆ Dimensions: Folds flat to 4½" x 7¼"

**UltraSoft (LUPBUS) .....19.95**



# LUMIQUEST

## POCKET BOUNCERS

### Barndoors

Designed for the Pocket Bouncer, the 80-20, and Ultrasoft. It attaches with self-adhesive hook and loop tabs, and can be adjusted to an infinite variety of positions.



- ◆ Application: To enable the photographer to more accurately direct light and reduce its intensity in specific areas.
- ◆ Dimensions: Folds flat to 4½" x 8½"

**Barndoors (LUBDPB) .....19.95**

### Snoot

The Snoot isolates the light to a very specific area. Automatic operation may be affected as illuminated area is limited. Bracketing and/or testing is recommended.



- ◆ Application: To illuminate a specific area of a scene with little or no effect on the surrounding area.
- ◆ Dimensions: Folds flat to 5¼" x 7¼"

**Snoot (LUS) .....19.95**

### Battereez

A comfortable, convenient way to carry a rechargeable flash battery. It appears like a shoulder holster yet attaches like suspenders to your pants. It evenly distributes the weight across your shoulders and back. Battereez can be adjusted to fit most photographers and is an important accessory for fast moving photojournalists and wedding photographers.

**Battereez (LUB) .....16.95**



### Big Bounce

Big Bounce enlarges and redirects and softens the light in the same manner as the Ultrasoft, with even softer results.

- ◆ Application: For use where a softer lighting effect is more important than "pocket size" portability (i.e. close-ups, portraits, etc.). Fits the same wide range of flashes as other LumiQuest models.

- ◆ Light Loss: Approximately 3 stops

- ◆ Dimensions: Folds flat to 8½" x 10¼"

**Big Bounce (LUBB) .....28.95**



### UltraBounce

The UltraBounce distributes the light over approximately 180° so that it can bounce off walls and ceilings to evenly illuminate a scene. The opaque sensor screen keeps the light from affecting the automatic sensor on most flash units.

- ◆ Application: To soften shadows and help eliminate "Red Eye".

- ◆ Approx. Light Loss: Variable depending on ceiling/wall distances.

- ◆ Dimensions: Folds flat to 2¼" x 3¼"

**UltraBounce (LUUB) .....14.95**



### Reflecta-Bounce Kit

This kit enlarges and redirects the light at a 90° angle from the flash. It is designed to soften the quality of light and distribute it over a wider area when used with bare bulb systems such as Armitar, Lumedyne, Norman, Quantum and Sunpak.

- ◆ Application: Can be used alone or with a silver or gold Metallic Insert. The silver insert adds a specular look to highlights; it is particularly useful for weddings. The gold insert adds a warm tone to the scene.

- ◆ Approximate Light Loss: Reflecta-Bounce: 1-1/3 stops

- ◆ Silver Metallic Insert: 2/3 stop Gold Metallic Insert: 1 stop

- ◆ Dimensions: Folds flat to 5" x 10"

**Reflecta-Bounce Kit (LURB) .....CALL**



### Table Top Reflector System



A 15-piece system that gives you flexibility and control over the reflective lighting technique typically used for table top photography. It includes crinkle silver surfaces which are reversible to white, and can be easily attached to the rigid mirror reflectors. The unique boom design enables the photographer to suspend a reflector close to the subject, just outside the image area. Light can be precisely directed and isolated through the use of hook and loop adjustments and the assortment of reflective surfaces. The reflectors range in size from 8½" x 11½" to 2" x 3¼". A rugged black storage pouch is also included.

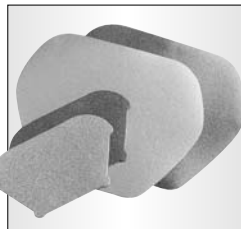
**Table-Top Reflector System (LUTTRK) .....59.95**

# LUMIQUEST

## POCKET BOUNCERS

### Metallic Inserts

The Metallic Inserts attach with hook and loop dots to further modify the quality of light. The silver insert adds a specular look to highlights and is particularly useful for weddings. The gold insert adds a warm tone to the scene and is useful for outdoor fill flash.



**Metallic Inserts for Big Bounce (LUMIBB) .....12.76**

**Metallic Inserts for Pocket Bouncer and Ultrasoft (LUMIPB) .....11.16**

### LIGHT LOSS

	Silver	Gold
<b>Pocket Bouncer</b>	2/3 stop	1 stop
<b>80-20</b>	2/3 stop	1 stop
<b>Ultrasoft</b>	1-2/3 stops	2 stops
<b>Big Bounce</b>	2-1/3 stops	2-2/3 stops

### Cinch Strap

The Cinch Strap enables you to attach LumiQuest accessories without installing self-adhesive loop to your flash. In addition, wrap-around velcro attaches LumiQuest



accessories for a more secure attachment.

This is particularly useful with the Big Bounce and the larger SoftBoxes.

**Cinch-Strap (LUCS) .....6.95**

### Glo-Notes

A professional darkroom labeling system that contains over 120 pre-printed labels and 45 blanks with letters for customization. The self-adhesive and waterproof labels have bold black text to enable easy reading in white light, safelight and total dark situations.



**Glo-Notes (LUGN) .....8.76**

### Mini SoftBox

The Mini SoftBox enlarges and diffuses the light with the flash in the direct flash position. Unobtrusive and low profile, it is ideal for press and other fast-moving situations.

- ◆ Application: To soften shadows and eliminate unpleasant red eye.
- ◆ Light Loss: Approximately 1 stop.
- ◆ Dimensions: Folds flat to 3 3/4" x 4 1/2".

**Mini SoftBox (LUSBM) .....17.95**



### SoftBox

The SoftBox enlarges and diffuses the light with the flash in the direct flash position. The light is softened and more evenly distributed as it passes through a center-weighted frosted diffuser. The unique design does not block either exposure sensors or auto focus assist beams on most flashes.

- ◆ Application: To achieve a very soft look with reduced shadow definition. For an individual flash or to softly illuminate the background in a multiple flash set up.

- ◆ Light Loss: Approximately 1 1/4 stops
- Dimensions: Folds flat to 5" x 7"

**SoftBox (LUSB) .....26.49**

### SoftBox II

The SoftBox II enlarges and diffuses the light with the flash in the direct flash position. It is designed exclusively for use on bare bulb flashes such as Lumedyne, Quantum Q Flashes and Sunpak 120J.

- ◆ Application: To soften shadows and eliminate unpleasant red eye.
- ◆ Light Loss: Approximately 1 1/4 stops.
- ◆ Dimensions: Folds flat to 6 1/4" x 7 1/4"

**SoftBox II (LUSB2) .....27.49**



### ProMax System

The ProMax System is the latest of LumiQuest's popular photo flash accessories. The basic unit allows 80% of the light to bounce off the ceiling while 20% is redirected forward as fill light. The system includes interchangeable white, gold and silver inserts as well as a removable frosted diffusion screen. The ProMax System will give you studio-like control in a convenient kit which attaches in seconds with hook and loop tabs and folds flat for storage in a sturdy pouch.

like control in a convenient kit which attaches in seconds with hook and loop tabs and folds flat for storage in a sturdy pouch.

- ◆ Application: The 80-20 allows for ceiling bounce with 20% fill. White insert provides a neutral bounce surface when no ceiling is available. Gold insert warms the light for late afternoon fill. Silver insert adds a more specular look to the highlights while maintaining shadow softness.

- ◆ Light Loss: For 80-20 variable depending on ceiling height.

**ProMax System (LUPMK) .....36.95**



For Any Inquiries Regarding Your Order, Call Our Customer Service:  
(800) 221-5743 • (212) 239-7765 • FAX: (800) 947-2215 • (212) 239-7549

# LUMIQUEST

## POCKET BOUNCERS

### FX Color Gel System

The LumiQuest FX is a colored gel system that includes an assortment of five colored gels - blue, green, red, yellow and amber. The FX filter holder,

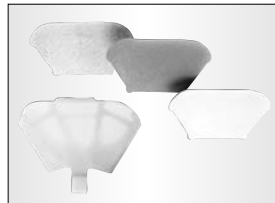


designed to fit most flash models, enables the photographer to quickly and conveniently colorize the light for a variety of special effect applications. The system folds flat and comes with a convenient storage pouch.

- ◆ Application: Colorize the light for a variety of special effects.
- ◆ Light Loss: 1 stop.
- ◆ Dimensions: 3 3/4" x 4 1/4"

**FX Color Gel System (LUFXCGS) .....24.95**

### ProMax Accessory Kit



The ProMax Accessory Kit allows you to turn your LumiQuest 80-20 and/or Pocket Bouncer into

an interchangeable system. The accessory kit includes a white insert, gold and silver metallic inserts, and a frosted diffusion screen.

#### White Insert:

To be used with the 80-20 where low ceilings are not available, or where more direct but soft fill light is desired. Approximate light loss is 1 1/3 stops.

#### Gold Metallic Insert:

Adds warm tone to the scene. Approximate light loss: 1 stop.

#### Silver Metallic Insert:

Adds a specular look to highlights. Approximate light loss is 2/3 stops.

#### Frosted Diffusion Screen:

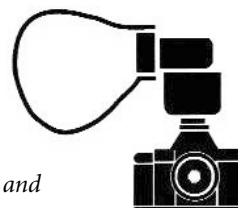
Ideal for close-ups and portraits. Approximate light loss with White Insert is 2 1/2 stops; with Gold Insert 2 stops; and with the Silver Insert 1 1/3 stops.

**ProMax Accessory Kit (LUAKPM) .....25.95**

### THE SHELL by CUSTOM SOLUTIONS

*Designed to work with on-camera flashes that swivel, The Shell TSS and The Shell TSM eliminate the frustrating problems of harsh and elongated shadows. Unlike other strobe head accessories, the shape and positioning of The Shell's elegant, compact design keeps the light coming from above the lens in both horizontal and vertical positions - the most flattering light for portraiture.*

*Without The Shell, using the flash head in the direct flash position you would get one type of light - a flat light. When you turn the camera to the vertical position you get another type of light - with a harsh and elongated shadow; neither one is flattering nor do they match. Also very important, The Shell does not interfere with the infrared sensors or TTL metering.*



- ◆ The Shell's lightweight, rugged form allows you to store your flash, lens or other accessories nestled protectively inside of it in your camera bag.



taken without The Shell



taken with The Shell

- ◆ In addition to the soft light, The Shell also has a wide angle of coverage. Shoot subjects with a 24mm lens without any light fall off. The Shell is an invaluable accessory for the photographer who cannot set up lighting, but desires a soft and flattering light.

#### The Shell TSM (CUSTSM)

Fits smaller swivel head flashes, such as the Nikon SB 28, SB-50DX SB-600 and SB-800, Canon Speedlite 420EX and 550EX, etc .....29.95

#### The Shell TSS (CUS)

Fits potato masher style flashes such as the Metz 60CT-series, Sunpak Auto544, Auto 555, 622 Super, Norman 200B as well as Lumedyne flashes .....29.95

### Flash... The Most Available Light by Quest C. Couch III

An easy reference for creating natural light with flash for digital and film photography. The book is designed to be a "quick read," initially providing an easy to understand working overview to the reader. More in-depth explanations are offered in an "Etc." section. You will learn how to work with a variety of situations on location to obtain natural results and understand the factors that affect your flash photography and how to use them to your advantage. This book will also dispel myths and teach you how to avoid common flash mistakes. Utilize the power of the automatic features through an understanding of their purpose and function. Learn to appreciate your flash as an indispensable tool with a variety of applications. 115 pages, softcover. It contains over 90 photos, charts and illustrations.

**Flash... The Most Available Light (LUFMAL) .....19.95**



# STO-FEN

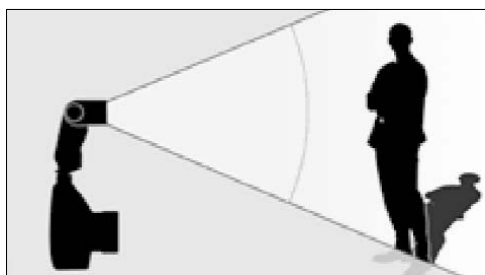
## OMNI-BOUNCE

### Flash Diffuser/Dome

The choice of today's working photographers, the Omni-Bounce creates a diffused bare bulb effect giving you even coverage across the entire frame, with lenses from 15mm to 200mm (in 35mm format). The Omni-Bounce is easy to use, and goes on and off your flash in seconds with a custom fitting (NO velcro is ever required for attaching it to your flash), offering photographers a chance to get the best possible light from their flash without having to carry cumbersome equipment. Designed for years of service without the bulk of some other diffusers, it is also small enough to fit easily into your gadget bag or pocket.



### How the Omni-Bounce Works



**Straight on Flash (Without the Omni-Bounce):**  
Flash straight on without the Omni-Bounce causes the light to go forward only and creates a harsh shadow behind the subject.



**With Omni-Bounce on the Flash Unit:**  
Flash with the Omni-Bounce installed and tilted to 45° gives a nice soft wrap around of light with a soft shadow behind the subject.

### Green and Gold Omni-Bounce



The Green and Gold Omni Units are used for special lighting situations. The Green is used for fluorescent lighting in conjunction with an FLD or 30M filter on the camera lens. The Gold is for warming skin tones and for overall warming in flash filled available light shots. They both mount the same as the regular Omni for your flash unit.

### Two-Way Universal Bounce Card

The TW-UNI is a pocket-sized bounce card that gives you the advantage of bouncing the flash without the need of a ceiling. The unit is small enough to fit into a shirt pocket and yet delivers a big punch of light. The package also includes a mini panel that provides a kicker light for fill-lighting use. To mount on your flash, the TW-UNI includes the UNI Mount which is a bracket that attaches to the back of the flash head with 3M foam core tape.



Shown mounted on an optional flash unit

#### Omni-Bounce

OM-199A, OM-422, OM-522, OM-SB16, OM-5600S, OM-4000, OM-300T, OM-CT45, OM-CT60, OM-B, OM-C, OM-EZ, OM-EX, OM-PZ4, OM-MZ2, OM-MZ3, OM-MZ6, OM-MZ40, OM-MZ50, OM-MZ70, OM-SB5, OM-PZ8, OM-600, OM-EY .....(ea.) 16.95

#### Green & Gold Omni-Bounce

OC-600GL, OC-600GR, OC-60GL, OC-60GR, OC-CBGL, OC-CBGR, OC-EXGL, OC-EXGR, OC-EYGL, OC-EYGR, OC-EZGL, OC-EZGR, OC-MZGL, OC-MZGR, OC-SBGL, OC-SBGR .....(ea.) 17.95

#### Green & Gold Omni-Bounce Sets

OC-600SET, OC-CBSET, OC-EXSET, OC-EYSET, OC-EZSET, OC-MZSET, OC-SBSET ..... (ea.) 29.95

#### Two Way Bounce

TW-UNI, TW-422, TW-B, TW-285, TW-199A, TW-411 ..... (ea.) 16.95



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# STO-FEN

## OMNI-BOUNCE

FLASH UNIT	OMNI	TWO-WAY	GREEN OMNI	GOLD OMNI	COLOR OMNI SET
Canon 199A	OM199A	TW199	—	—	—
Canon 300EZ	OMUNI	—	—	—	—
Canon 300TL	OM300T	TWUNI	—	—	—
Canon 380EX	OMC	TWB	OCCBGR	OCCBGL	OCCBSET
Canon 420EX	OMEX	TWUNI	OCEXGR	OCEXGL	OCEXSET
Canon 420EZ/430EZ	OMB	TWB	OCBGR	OCBGL	OCBSET
Canon 540EZ/550EX	OMEZ	TWUNI	OCEZGR	OCEZGL	OCEZSET
Canon 580EX	OMEY	TWUNI	OCEYGR	OCEYGL	OCEYSET
Contax TLA280/TLA360	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Metz 32 MZ-3/Z-1/Z-2	OMMZ2	—	—	—	—
Metz 36AF	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Metz 40 AF4	OMPZ4	TWUNI	OCMZGR	OCMZGL	OCMZSET
Metz 44AF	OMMZ2	TWUNI	—	—	—
Metz 50 MZ5 Series	OMMZ50	—	—	—	—
Metz 54 MZ3/MZ4	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Metz 70 MZ4/MZ5	OMMZ70	—	—	—	—
Metz CT/CL45 Series	OMCT45	TWUNI	OCCBGR	OCCBGL	OCCBSET
Metz CT60 Series	OMCT60	—	OC60GR	OC60GL	OC60SET
Minolta 3600HS	OMPZ8	TWUNI	—	—	—
Minolta 4000AF	OM4000	TWUNI	—	—	—
Minolta 5200i/5400hs/5400xi	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Minolta 5600hs	OMMZ6	TWUNI	—	—	—
Nikon SB-16	OMSB16	TWUNI	OCCBGR	OCCBGL	OCCBSET
Nikon SB-24	OMC	TWB	OCCBGR	OCCBGL	OCCBSET
Nikon SB-25/SB-26	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Nikon SB-28/SB-28DX	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Nikon SB-50DX/80DX/800	OMSB5	TWUNI	OCCBGR	OCCBGL	OCCBSET
Nikon SB-600	OM600	TWUNI	OC600GR	OC600GL	OC600SET
Pentax 330FTZ	OMMZ3	—	OCMZGR	OCMZGL	OCMZSET
Pentax AF360FGZ	OMPZ8	TWUNI	—	—	—
Pentax AF500FTZ	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Sigma 420/430	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Sigma 500 Series	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Sunpak 355AF	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Sunpak 422/433/444	OM422	TW422	OCCBGR	OCCBGL	OCCBSET
Sunpak 4500DX/455/522/544/555	OM522	—	—	—	—
Sunpak MZ440AF	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET
Sunpak PZ4000AF	OMPZ4	TWUNI	OCMZGR	OCMZGL	OCMZSET
Sunpak PZ-40X	OM4X	TWUNI	—	—	—
Sunpak PZ5000AF	OMEZ	TWUNI	OCMZGR	OCMZGL	OCMZSET
Vivitar 283	OMB	TWB	OCCBGR	OCCBGL	OCCBSET
Vivitar 285	OMB	TW285	OCCBGR	OCCBGL	OCCBSET
Vivitar 3700/4600/5600	OM5600	TWB	OCCBGR	OCCBGL	OCCBSET
Vivitar 5600 Zoom	OMB	—	OCCBGR	OCCBGL	OCCBSET
Vivitar 600N	OMEZ	—	OCEZGR	OCEZGL	OCEZSET
Vivitar 728AF	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Vivitar 730AF	OM300T	TWUNI	—	—	—
Vivitar 836/840AF	OMMZ3	TWUNI	OCMZGR	OCMZGL	OCMZSET
Vivitar 850AF	OMC	TWUNI	OCCBGR	OCCBGL	OCCBSET

# CUSTOM BRACKETS

## CAMERA & FLASH BRACKETS



Unlike conventional brackets, the QRS-35 is designed for you to hold the camera rather than the bracket, for a more natural way of shooting. Available for many cameras including the Canon EOS Elan 7N, EOS-1v, and EOS-3, Nikon F100, F5, and F6, Minolta Maxxum 7 and 9. The QRS-35 has a semi-circular track with a camera platform which slides quickly to switch from horizontal to vertical, and vice-versa. Spring detents lock the platform securely in either position, but just a good nudge lets you switch camera orientation. For studio use the system is available without the flash holder. The brackets are machined from aluminum, for light weight and strength, and then anodized black for a professional look.

- ◆ Stands upright - protecting the camera and flash
- ◆ Base is ready for tripod quick-release
- ◆ Lightweight aluminum construction
- ◆ Easily switch camera/flash from system to system
- ◆ Camera mounting plates with or without vertical grips
- ◆ Flash mounting plates allow adjustable height and tilting (Metz 45/60, 50/70 ready, others optional)
- ◆ Available with textured adjustable handle (QRS-35-H)
- ◆ Non-tripod mountable version for those who don't want to carry large, bulky brackets (QRS-35-PJ)
- ◆ Holds accessories (radio slaves, TTL modules, focusing lights, etc.) via optional bracket accessory adapters

**QRS-35** (CUQRS35)  
35mm Style Rotational Flash Bracket (no handle).  
12¼ x 8 x 4" (HWD), weighs 23 oz.....**164.95**

**QRS-35-H** (CUQRS35H)  
Same as above, includes textured adjustable handle.  
14 x 8 x 7" (HWD), weighs 27 oz .....**169.95**

**QRS-35-EV** (CUQRS35EV)  
Extended Version adds 2" extra clearance for TTL Modules and Radio Slaves. It's dimensions are 14 x 9¼ x 7" (HWD) deep, it weighs 28 oz.....**179.95**

**QRS-35-PJ** (CURS35PJ)  
For photojournalism. Includes handle but is non-tripod mountable. 11½ x 8 x 12½" (HWD).....**159.95**

**QRS-35-SV** (CUQRS35SV)  
Studio Version (camera bracket only, no flash holder).  
7-¼ x 5½" (HW), it weighs 10 oz .....**142.95**

*After choosing a bracket, select a camera mounting plate, flash mounting plate and accessories (next page) to complete your system*

### 35mm Camera Mounting Plates



**C35-CD** (CUC35CD):  
Approximately 3¾" center of lens to the bottom of the camera. It is compatible with

QRS-35-PJ and QRS-35-SV brackets.....**32.95**

**C35-CD1** (CUC35CD1):  
Approx. 3¾" center of lens to bottom of camera. Compatible with QRS-35, QRS-35-H, QRS-35-EV brackets.....**36.95**

**C35-S** (CUC35S):  
1¼" to 1¾" center of lens to bottom of the camera. Compatible with all brackets.....**29.95**

**C35-T** (CUC35T):  
2½" to 3" center of lens to bottom of camera. Compatible with all brackets .....**28.95**

### Flash Mounting Plates

**F35-C** (CUF35C)  
For Canon Off Camera Shoe Cord 2 .....**19.95**

**F35-N** (CUF35N)  
For Nikon SC-17, SC-28 cords.....**19.95**

**F35-N1** (CUF35N1)  
For Nikon SC-29 Off Camera TTL AF Cord (not for QRS or QRS-35-H).....**21.95**

**FL** (CUFL)  
For Lumedyne Classic Series (round flash head type) .....**19.95**

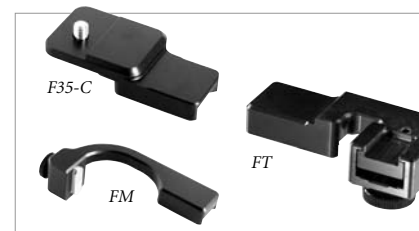
**FM** (CUFM)  
For Metz MZ50 and MZ70 (barrel type), not for QRS, QRS-35 or QRS-35-H .....**28.95**

**FN** (CUFN)  
For Norman heads with 1/4"-20 thread ...**19.95**

**FQ** (CUFQ)  
For Quantum Q Flash T4D (not for QRS or QRS-35-H) .....**19.95**

**FS** (CUFS)  
For Sunpak 544 and 622 (barrel type) .....**24.95**

**FT** (CUFT)  
For Shoe Type -Vivitar 283 & 285, Metz 40 and 54, Sunpak 120J, and others .....**24.95**



# CUSTOM BRACKETS

## CAMERA & FLASH BRACKETS

### Bracket Accessories

#### AP - Accessory Plate (CUAPQ)

The AP has many uses when attached to the upright. From supporting radio slaves, TTL modules and focusing lights .....19.95

#### FR - Flash Quick-Release (CUFR)

Flash quick-release receiver replacement for bracket. It accepts all accessory flash mounting plates as well as the Metz 45 and 60 series flashes directly. ....19.95

#### LF - L-Flash Bracket (CULF)

For 35mm cameras, the LF allows the flash to move 1", 2" or 3" back for better balance in standing when using different lenses .....16.95

#### MC Cold Shoe (CUMC)

Use it to attach a Radio slave, Focusing light and TTL module to the upright .....16.95

#### QR - Tripod Quick-Release (CUQRQ)

The tripod quick-release is a must for taking full advantage of Custom Bracket bracket systems when using a tripod. Attach to a tripod to accept either the bracket or camera .....39.95

#### Strap (CURHS)

A velcro adjustable leather strap. The strap adds insurance for holding and carrying your brackets. It replaces the original handle and still allows the handle to be indexed for your comfort. Not for QRS-35.....49.95



### Battery Holders



#### BH-1 Battery Holder (CUBH1)

Designed to support clip type batteries (Quantum, Lumedyne, etc.) on a tripod or lightstand of 1/2" to 1 1/4" .....18.95



#### BH-2 Battery Holder (CUBH2)

Designed to support the Metz 60 series battery from the bottom using a 2 piece holder. The battery mount stays attached to the bottom of the battery, while the receiver attaches to the tripod or lightstand. This holder uses the battery's own weight to keep it in place and allows for fast on / off operation on a tripod or lightstand of 1/2" to 1 1/4" in diameter .....26.95



#### BH-3 Battery Holder (CUBH3)

Designed to support the (Classic Series) power module from Lumedyne from the "D" hooks with or without the strap attached. The holder allows for one handed fast on / off operation on a tripod or lightstand of 1/2" to 1 1/4" .....26.95

#### BH-4 Battery Holder (CUBH4)

Designed to support the (Signature Series) power module from Lumedyne from the "D" hooks with or without the strap attached. The holder allows for one handed fast on / off operation on a tripod or lightstand of 1/2" to 1 1/4" .....29.95

### CB Junior Bracket & Accessories



#### CB Junior Flash Rotating Bracket (CUCBJ)

Adjustable pivoting aluminum flash arm keeps the flash centered above the lens for both horizontal and vertical shooting. It features a comfortable foam grip for carrying, and a swing-out leg for standing. Dimensions are 7 1/4 x 7 1/4 x 5" (HWD), it weighs 17 oz .....89.95

#### CN-JR Anti-Twist Plate (CUCNJR)

An anti-twist mount that prevents Canon and Nikon off-camera shoe cords from twisting or rotating from the mounting screw. It locks the cord to the bracket to prevent twisting .....14.95

#### FT-JR Flash Shoe Mount (CUFTJR)

Attaches shoe mount flash to the CB Junior flash rotation bracket.....16.95

# CRANE

## FLASH BRACKETS

### Multi Brackets

A must for all wedding photographers or anyone who does location/candid and multiple-light shooting, the Multi-Bracket is designed to conveniently hold your portable flash, power supply, radio slave receiver or photo slave and an umbrella for bounce lighting with the strobe sensor facing subject, allowing automatic exposure control (except MB-2). They are excellent when mounted on a mono-pod or small light stand for easy mobility or for use on an extension pole and are extremely well balanced. Equipped with a flash "quick release" for your convenience and an adjustable tilting head for easy positioning, they accept all stands up through 5/8". Multi-Brackets are offered in four different models to accommodate virtually all portable strobes.



#### MB-1 Multi Bracket (CRMB1):

For Sunpak Auto-Pro 120J, Lumedyne, Norman, Quantum Q-Flash, and Mini Lights AC/DC Version (1/4"-20 thread mount).....**74.95**

#### MB-2 Multi Bracket (CRMB2):

For all "shoe-mount" style flash heads. Will block the Auto Sensor of most flashes. Use the flash in Manual, or TTL, with the proper TTL off-camera cord.....**74.95**

#### MB-2SLS Multi Bracket (CRMB2SLS):

Same as MB-2 except it includes a locking shoe mount for flash...**78.95**

#### MB-3 Multi Bracket (CRMB3):

For Metz 45 and 60 Series handle mount flashes .....**74.95**

#### MB-4 Multi Bracket (CRMB4):

For Sunpak handle mount flashes .....**74.95**

## Multi Bracket Accessories

#### Small Battery Holder (CRBHS)

Designed to securely hold all Quantum battery packs and other items with a belt clip (i.e. belt pouch for film magazines, filter and vignette pouch) to most light stands, mono-pods and tripods. Its small, lightweight design is ideal for wedding, location and studio use. Black Anodized .....**23.95**

#### Universal Battery Holder (CRBHU)

The Universal Battery Holder is specifically designed to securely hold all Quantum, Lumedyne and Metz 60 Series battery packs to most light stands, mono-pods and tripods. Its rigid, extremely lightweight aluminum construction provides great benefit without adding excess weight to your bag. Ideal for commercial, wedding, location or studio use. Recommended for use with Lumedyne systems and Metz 60 Series strobes when using Multi-Brackets MB-1, MB-2, MB-3, and MB-4. Black Anodized .....**38.95**

#### AH-1 Accessory Holder (CRAH1)

For Bogen 3021, 3021B, 3033 and 3033B heads.....**14.95**

#### AH-2 Accessory Holder (CRAH2)

For Bogen 3046 & 3046B tripods .....**14.95**

#### AH-3 Accessory Holder (CRAH3)

For Bogen 3036, 3036B, 3051 and 3251B tripod.....**19.95**



#### Locking Accessory Shoe (CRSLs):

Allows mounting of a shoe mount flash, radio slave, or off-shoe cord to a Crane flash bracket .....**9.95**

#### Clip for Norman Batteries (CRNBHC):

Clip to attach the Norman 200 and 400B series batteries to a Bogen lightstand or tripod. Requires either the Small or Universal Battery Holder.....**13.50**

#### Clip for Quantum

##### Batteries (CRQPX)

Clip to attach the Quantum QPAQ-X Power Pack to a Bogen lightstand or tripod.

Requires either the Small or Universal Battery Holder.....**13.50**

#### Dark Slide Holder (CRDSH)

A convenient way to secure your dark slide that features Velcro strips .....**5.50**

#### Quick Release Adapter with Plate (CRQS)

The 35mm Quick Shoe provides quick camera mounting, while eliminating thread wear on the camera. The small light-weight foot can remain on the camera for quick mounting. Additional camera feet are available.....**54.95**

#### Quick Release Plate (CRQRP)

For the Quick Release Adapter.....**16.49**



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# FLASHFRAME

## FLASHFLIP FLASH BRACKETS

### FlashFlip 100 (FLMFF)

Keep your flash high and directly over the camera lens in the horizontal and vertical positions, eliminating red-eye. By having the flash high above the lens, shadows are cast behind the subject and not seen in the photograph. The FlashFlip works with most 35mm cameras and shoe-type flashes. Supplied with locking shoe and 1/4-20 flash mounts. All metal construction.....**49.95**

### FlashFlip PF (PlatForm) (FLFF200)

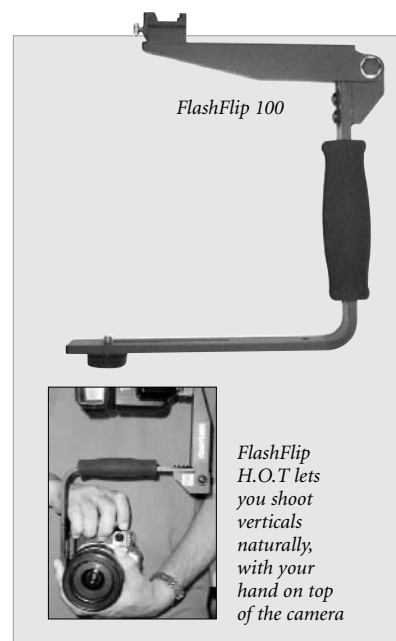
The same design as the FlashFlip, but with an ultra-steady platform base that allows the user to stand the entire assembly (camera, flash and bracket) up for easier access and more stability. In addition, the base also has more surface area that makes it ideal for larger cameras.....**59.95**

### FlashFlip VF (VertiFlash) (FLFF300)

The FlashFlip VF allows for horizontal and vertical shots keeping the flash high and centered above the lens. In the vertical mode, your hands are "on top" of the camera, the natural and most popular way to shoot verticals. Heavier bracket holds larger pro-style SLRs .....**69.95**

### FlashFlip H.O.T. (Hands On Top) (FLFF400)

The FlashFlip H.O.T. features the same design as the other FlashFlips, allowing for horizontal and vertical shots while keeping the flash high and centered above the lens. In the vertical mode, this bracket lets you shoot the way you would normally with your "Hand on Top" of the camera. Specially designed, offset platform base allows the entire assembly (camera, flash and bracket) to stand up on its own and gives enough clearance for even the largest hand .....**69.95**



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## STRATOS Flash Brackets

Designed to meet all lighting conditions and problems, Stratos flash brackets eliminate flash shadows, red-eye and instantly balance your lighting. Precision-machined of the highest quality black anodized 6061 aircraft aluminum, Stratos brackets are lightweight, yet indestructible. Both the camera mount and the flash mounts are adjustable and the shoe has a built-in quick release. They also have an anti-fatigue, non-slip contour foam grip that is one of the most comfortable on the market. The brackets provide 8" or 10" elevation for the flash, with a pivoting flash arm that keeps the flash over the lens in both horizontal and vertical positions, thereby reducing red-eye and unwanted side-shadows. The bracket provides 3" flash alignment on the pivoting flash arm, and 4" camera adjustment on the camera base plate. By having the flash high above the lens, shadows are cast behind the subject and are therefore not seen in the photograph.

- ◆ 8" or 10" length post
- ◆ 4" horizontal camera adjustment
- ◆ Anti-fatigue contoured, non-slip foam rubber grip
- ◆ Easy flip action for perfect vertical and horizontal flash shots. Flash arm flips a full 180°
- ◆ 3" horizontal flash adjustment ensures you flash always stays centered over your lens
- ◆ 1/4" thick base plate with anti-twist rubber base pads
- ◆ 835 Bracket is available in vibrant anodized colors (red, gold and blue) as well as black

#### 835 Bracket with 8" Post:

Available in Black (STB358B), Red, (STB358R), Blue (STB358BL), and Gold (STB358G) .....**42.95**

#### 835F Folding Flash Bracket with 8" Post (STB358FB):

Same as the standard 835 except that it folds together flat, to fit more easily into a camera bag. Black color .....**54.95**

#### 1035 Bracket with 10" Post (STB3510):

Same features as the standard 835 except with a 10" post. Black color .....**44.95**

#### Mini Digital Folding Bracket

Designed for compact digital or 35mm cameras. It folds together flat and it will easily slip into a shirt pocket or camera bag. It is 4" x 5" (HxW). Available in Black (STBDCB), Blue (STBDCBL), Red (STBDCR), Gold (STBDCG), and Silver (STBDCS) .....**19.95**

Stratos Cable Release Kit (STCR20) .....**22.95**

Stratos 1/4" Flash Mount Adapter (STFM.2520Q) .....**19.95**

Stratos Metz Flash Mount Adapter (STFMM) .....**29.95**

Stratos Metz Sensor Adapter (STMSA) .....**19.95**

Stratos Non-Rotating Arm Adapter (STNRAA) .....**27.95**

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# LINDAHL

## ULTRA EFX SHADE 2000

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*The Ultra EFX Shade 2000 has a revolutionary mounting system that allows your lens to rotate and zoom while keeping the lens shade in line with your camera. Other shades either don't allow lens movement or spin along with the lens, making shooting awkward. The inexpensive and innovative Ultra EFX Shade 2000 is the industry's only filtration and vignetting system that works properly with zoom and standard lenses — even if your lens rotates. It puts an end to lens flare and helps you create dramatic professional effects. Just screw on the appropriate lens adapter disk and attach the shade. The bellows extends and contracts on a pair of black aluminum segmented rods. The camera mounting bracket attaches to your camera tripod socket and locks in place with a screw.*



### Ultra EFX Shade 2000 System (LILHUEFX200Q)

Includes the bellows unit, camera mounting bracket, pro flash bracket, one diffusion filter and two vignettes.

Requires EFX Adapter Disk.....299.95



### EFX Pro Flash Bracket (LIPFBUFX200)

This bracket can be attached to the Ultra EFX 2000 Shade Accessory or used alone. It allows your flash to remain centered over the lens in both horizontal and vertical compositions. The sleek design allows you to handle your camera naturally and access your vertical shutter release easily. Fully adjustable to accommodate vertical grips, motor drives or similar accessories. Solid construction of all aluminum, accommodates a tripod with a standard 1/4-20 thread.....108.95

### Ultra EFX 2000 Shade Accessory (LIAUEFX2000)

Adds on to the EFX Pro Flash Bracket (LIPFBUFX200), to make a complete Ultra EFX Shade 2000 System. It includes the shade, diffusion filter and two vignettes .....199.95

### Ultra EFX Lens Hood 2000 (LILHUEFX2000)

This innovative hood is for use alone, without a Pro Flash Bracket. The mounting system allows your lens to rotate and zoom while keeping the lens shade in line with your camera. The mounting bracket attaches to your camera tripod socket and locks in place with a screw. It includes the shade, diffusion filter and two vignettes, and requires the appropriate EFX Adapter Disk .....199.95

### EFX Pro Flash

#### Bracket Accessory (LIPFBAUEFX20)

Adds on to the Ultra EFX Lens Hood 2000 (LILHUEFX2000), to make a complete Ultra EFX Shade 2000 System .....126.95

## EFX VIGNETTES

Each package includes two vignettes—one black and one white, 3½ x 4½". The black (Low Key) vignette is opaque and ideal for blocking out unwanted areas of your photograph. The white (Hi-Key) vignette is translucent and will lighten the edges as well as blocking out detail.

### Horizontal Smooth Oval (LIVHSOUEFX):

General purpose vignette used for both horizontal and vertical compositions. Smooth edges for a wide range of apertures.....13.95



### Horizontal Scalloped Oval (LIVHSOUEFXQ):

Same opening as above, except with scalloped edge for better blending. Use large apertures.....13.95

**Smooth Circle (LIVSCUEFX):** Circles allow proper vignetting of a single subject. Wide range of apertures.....13.95

### Serrated Diagonal Oval (LIVSDOUEFX):

Ideal for s-curve compositions. Mask can be flipped for left-to-right compositions. Serrated edges allow for the best blending.....13.95

**Scalloped Horizontal Group (LIVSHGUEFX):** Use wider apertures for multiple subject compositions.....9.95

**Scalloped Vertical Group (LIVSVGUEFX):** For use with vertical compositions 9.95

**Horizontal Bottom Arc (LIVHBAUEFX)** Darken foreground to remove unwanted objects or to center attention toward the subject.....9.95



**EQUIPMENT LEASING AVAILABLE**

## EFX VIGNETTES, ADAPTER DISKS, FILTERS

### EFX VIGNETTES, *continued*

#### Montaging Masks (LIMSMEUEFX)

This set of six enables you to do several different types of multiple exposures. For optimal results, multiple exposures require a full manual mode and all elements within the multiple exposure should use the exact same focal length .....**24.95**



#### EFX Blank Masks



These masks are solid material that allow you to cut your own

masks for vignetting or multiple exposures.

**Set of 4 Black Masks (LIBMSBUEFX) .....13.95**

**Set of 4 White Masks (LIBMSWUEFX) .....13.00**

**Set of 4 Masks (LIBMSBWUEFX)**

2 black and 2 white masks .....**16.95**

#### EFX Vignette Frames (LIVFSUEFX)

Thin plastic with adhesive on one side to attach your own vignette material. Place any type of material between 2 frames and cut your custom-designed opening and make your own vignettes. Package of 6, makes 3 finished vignettes.....**33.50**

#### Colored Vignettes (LIVCSUEFX)

Add artistic color to your photographs for extra versatility and unique effects. Package includes six horizontal, smooth ovals, one each in the following colors: Gray, Green, Lavender, Orange, Yellow, and Aquamarine.....**29.95**

#### EFX Pro

##### Mesh Vignettes (LIVSPMUEFX)

Designed in layers to give a subtle, gradual low key vignette. Two different size ovals are included in the set for use with a variety of focal lengths. A bottom scoop for both horizontal and vertical compositions makes this set complete. Package of 4 .....**49.50**

#### EFX Mid-Key Vignettes



Gently lighten the edges of your photograph to blend beautifully with contemporary Hi and Mid-Key settings.

**Package of 3 (LIVSMKUEFX).....49.95**

**Set of 2 Uncut (LIVSCMKUEFX).....29.95**

#### Magic Edge Vignettes



Create a dream-like edge around your subject.

This vignette is used in the front slot of the EFX Shade and gently diffuses the edges of your photograph. Ideal for any situation.

**Horizontal Oval (LIVMEHOUUEFX) .....19.95**

**Vertical Oval (LIVMEVOUEFX) .....17.50**

**Custom Vignette Kit (LIVSCMEUEFX)**

Package of 2 uncut .....**24.95**

## EFX Adapter Disks

*These metal threaded are designed to work exclusively with the Ultra EFX Shade.*

**49mm EFX Adapter Disk (LIAD49) .....17.00**

**58mm EFX Adapter Disk (LIAD58) .....17.00**

**72mm EFX Adapter Disk (LIAD72) .....17.00**

**52mm EFX Adapter Disk (LIAD52) .....17.00**

**62mm EFX Adapter Disk (LIAD62) .....17.00**

**77mm EFX Adapter Disk (LIAD77) .....17.00**

**55mm EFX Adapter Disk (LIAD55) .....17.00**

**67mm EFX Adapter Disk (LIAD67) .....17.00**

**82mm EFX Adapter Disk (LIAD82) .....44.95**

## PROFESSIONAL FILTERS

### Harrison & Harrison Diffusion Effect

Diffusion effect filters are designed to create a general softening of the image. This special effect sets a distinctive mood or style. Sold in progressive steps, individually or as a set.



No effect



Diffusion Effect #1



Diffusion Effect #2



Diffusion Effect #3

**Diffusion Effect #1 (LIHHD1).....88.95**

**Diffusion Effect #3 (LIHHD3) .....69.95**

**Diffusion Effect Set (LIHHD3SQ):**

Set of all 3 Diffusion Effect filters in a fabric pouch.....**249.95**

**Diffusion Effect #2 (LIHHD2).....88.95**

### Harrison & Harrison

#### Black Dot Texture Screen Diffusion Set

The Black Dot Texture Screens soften images without a whitish veil. Even as the degree of diffusion increases, Black Dots allow retention of contrast so there's no "fuzzy" look. They make retouching easy, too. These filters require aperture compensation of approximately 1 stop, regardless of the degree of diffusion.



**Black Dot Texture Screen Diffusion Set (LIHBDTSS)**

Set of 5 filters in a wood storage box .....**529.95**

# LINDAHL

## PROFESSIONAL FILTERS

FLASHES & ACCESSORIES

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### Soft Touch

#### Diffusion Filter (LISTD33)

Optical glass combined with a soft gentle diffusion effect makes this filter suitable for so many applications. Gentle diffusion for portraits, satin effect on still life subjects – quality diffusion for any subject.....**74.50**



### Lindahl Soft Filters

Lindahl Acrylic filters are an economical choice for diffusion effects. These durable filters are worth considering for location photography and other situations where breakage might be a concern. Three filters are available, and offered individually or in sets.

Lindahl Soft Lite (LISFL) .....	53.00
Lindahl Soft #1 (LISF1) .....	43.95
Lindahl Soft #2 (LISF2) .....	43.95
Lindahl Soft #1 and Lite Filter (LISFL1) .....	73.95
Lindahl Soft #1 and Soft #2 (LISF12) .....	69.95

### Graduated Gray Rotating Drop-In (LIGG33)

A neutral gray graduated filter in the Lindahl rotating drop-in style. Half clear gradually turning to gray to darken about 1 stop. You can rotate to darken the top, bottom, or anywhere in-between. Use as a natural vignette even at small apertures.....**64.95**

### Coral Filters

Coral filters are available in 2 versions: as a standard 81B light Coral filter, and as an 81B with a slight soft focus filter. The warming effect is useful for taking photographs in the shade or open shade on sunny days, and can improve the color rendition on backlight subjects in sunshine. They require an exposure increase of approximately 1/3 stop.

<b>Coral Filter (LIFC33):</b>	<b>Coral Filter Set (LICS33):</b>
81B .....	74.95
<b>Coral Soft Filter (LICS33Q):</b>	The set contains a Coral Filter and Coral Soft Filter. It includes a fabric pouch .....
81B plus Soft .....	99.95
	224.00

### Soft Rings Diffusion

Soft Rings Diffusion filters are a series of 3 filters with a concentric ring cast into the glass. As the diffusion increases, the contrast level will remain virtually unchanged. We recommend that these filters be used in the normal portrait range of apertures such as f/8-f/5.6. Excessive depth-of-field could produce an uneven diffusion effect. Soft rings provide an ideal diffusion in conjunction with all Lindahl Vignettes.



<b>Soft Rings #1:</b> (LISD133) .....	88.95
<b>Soft Rings #2:</b> (LISD233) .....	88.95
<b>Soft Rings #3: (LISD333Q) .....</b>	79.95
<b>Soft Rings Diffusion Set (LISDS33Q):</b> Set of all 3 soft rings diffusion filters in a fabric pouch.....	249.95

### Sepia Filters (LISF)

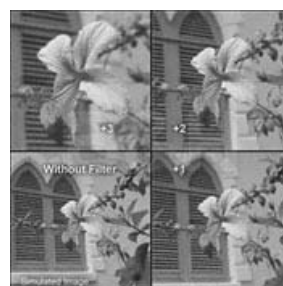
A sepia filter produces a brown colored image on color film allowing the printing of sepia toned prints with color paper. The sepia filter requires 2-stops aperture compensation. Best results are obtained with low key, muted tones. It's ideal for outdoor photographs at dusk for a silhouette .....**57.50**



### Sunset Filter (LISSF)

This sunset filter is a resin filter that creates a warm foreground with an even warmer sky.....**53.00**

### Close-up Drop-in Filters



Close-up drop-in filters are simple lenses that allow closer focus than a bare lens. These positive supplementary lenses are not magnifying lenses, but rather a close-up lens designed to change the infinity point of your lens. These lenses feature the unique ability to be used as drop-in devices. When a lens is needed, simply drop the filter in the filter slot of your lens shade system.

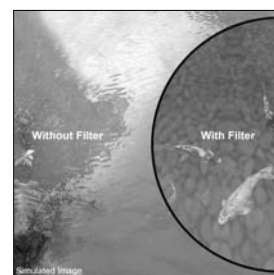
These lenses are specifically ground to produce the effect and still be thin enough to fit in the standard 3" filter slot of the shade.

These filters are an ideal companion for wedding photographers. Use with the ring shot, photographs of the invitation, or any other instance where you simply need to get closer than your camera normally permits. They are available in two strengths, +1 and +2. The higher the number, the greater the magnification. No aperture compensation is necessary and small lens openings are recommended for best results.

<b>Close-up Filter +1 (LICU133) .....</b>	67.50
<b>Close-up Filter +2 (LICU233) .....</b>	67.50
<b>Close-up Filter Set (LICU333):</b> Set of +1 and +2 Close-up Filters. The set includes a Fabric Pouch .....	135.00

### Rotating Drop-In Polarizer

Polarizing filters are important to both color and black and white photography. In addition to reducing reflections, polarizing filters will increase color saturation and richness in your photograph. They will regulate reflections from non-metallic surfaces such as water, glass or light from blue skies. The drop-in convenience of the Lindahl system and the features of a polarizer together enable you to create spectacular photographs.



<b>3" Linear Type Rotating Drop-In Polarizer (LIP33) .....</b>	88.95
<b>3" Circular Type Rotating Drop-In Polarizer (LICP33) .....</b>	89.95



**ONE HOUR FREE PARKING**

**AT 349 W. 34th STREET (with purchase of \$100 or more)**

# LINDAHL

## PROFESSIONAL FILTERS

### Cross Star Filters

Star filters can add one of the most dazzling effects to your photography. Star effects are created using a filter that flares along a straight line from a specular highlight, point light source or bright reflection. Star Filters have long been a very popular special effect for weddings and portraiture to emphasize dramatic backgrounds. The brighter the light source, the more pronounced the effect. Lindahl achieves this effect with the drop-in convenience and adjustability make these filters a requirement for every photographer. By rotating the filter, you can change the orientation of the star and create the effect you need. Increased depth-of-field due to aperture or focal length can diminish the effect. Wide apertures (f5.6-f2) will produce a more pronounced effect.



#### 4-Point Cross Star (LIS4P33)

The 2mm, 4-Point Cross Star produces a brilliant effect with little change in contrast. Spaced at 2mm, the filter produces brilliant stars that do not dominate the scene .....**44.95**

#### 6-Point Cross Star (LIS6P33)

Adds interest and sparkle to your photograph. The lines on this filter are spaced farther apart than the 4-Point to prevent excessive loss of contrast with the increased number of points this filter creates .....**44.95**

## Bracket Plus System and Accessories

### Bracket Plus System for 35mm Cameras (LIBPK35)

The Bracket Plus system is designed to be a complete basic flash bracket system for your camera with a shoe mount type strobe. Designed to be used only with prism finders, the system will allow Adapters are available for handle mount type strobes such as Metz, Sunpak, etc. The design of the 35mm base plate allows a Nikon F2 to be opened without removing the camera from the grip. A tripod socket, located on the base plate of all the grip portions, allow you to attach the grip to a tripod or quick release type mechanism, using a 1/4-20 thread.....**149.95**

### Bracket Plus Grip for 35mm Cameras (LIBPG35)

Replacement for Bracket Plus System.....**69.95**

### Flash Swing Arm (LISAP5)

Replacement for Bracket Plus System. It gives a total of 5" from the top of the grip to the base of the strobe.....**79.95**



### Locking Handle Mount Adapter (LIHMSA)

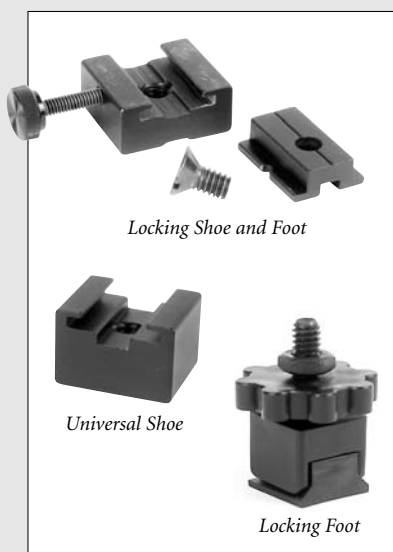
This adapter is required if using a handle mount type strobe on the Bracket Plus or Trigger Grip flash brackets. Simply attach this adapter to the handle of your strobe, slip the adapter into the shoe and tighten in place with the large locking knob .....**64.95**

### Locking Head Mount Adapter (LIHMA3)

Allows a Norman or similar strobe head to be positioned correctly for either vertical or horizontal positions on bracket systems. Can also be used as a simple spacer to get your flash in a higher position above the lens .....**34.95**

### Universal Shoe (LIUSGT)

Universal aluminum accessory shoe with 1/4-20 thread for mounting. Universal size allows mounting of most popular flash shoe sizes. Ideal for use with the Locking Foot, or flash with locking device.....**9.50**



### Locking Shoe and Foot

Allows quick mount and release of any accessory that accepts a 1/4-20 thread. Ideal for Norman, Lumedyne, Novatron, Sunpak 120J, Quantum Q-Flash and many others. It is a combination of the Locking Shoe (LILS) and Locking Foot (LIFA).

**Locking Shoe and Foot (LILSF) .....19.95**

**Locking Shoe Only (LILS).....19.95**

**Locking Foot Only (LIFA).....11.95**

### Locking Foot (LILFGT)

Attaches to any 1/4-20 mounting hole. Tighten lock nut against flash, large locking knob tightens foot to any accessory shoe.....**15.95**

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# NEWTON BRACKETS

## CAMERA BRACKETS

As photographers move from film to digital there is a need for a camera/flash bracket that offers photographers the ability to hold their camera by the grip with the right hand and support and zoom with the left hand. Newton's Di series camera bracket design allows this freedom. The brackets are made from 6061T aluminum, milled, not bent for strength. The rotator is milled into the design so that you get a solid, secure and stable rotation system for both hand held and tripod photography.

The overhead flash holder on the Di100CR and Di400CR is adjustable. The bracket base has 1/4"-20 tripod socket and holds the camera and flash upright. Each bracket comes with a complete set of hex keys, 1/4"-20 x 1/4" camera plate screw and 1/4"-20 x 1/2" flash screw. (Flash holders must be ordered separately). Newton brackets keep the flash directly over the lens. Newton's patented rotation system and low profile design make a smaller, lighter and stronger bracket with better balance. With a Newton, your camera and flash become a red eye and shadow control system.



### Di100CR Camera Rotator Bracket



If you are using your camera and flash on a tripod as much as hand held the best choice is the Di100CR. This bracket allows the camera to be rotated under the flash without moving

the tripod head. The base on the bottom of the bracket has a 1/4"-20 tripod socket for mounting the bracket on a standard tripod head. Fits most 35mm-type camera bodies without motor drives or booster.

**Di100CR (NED1100CR) .....219.95**

### Di400CR Camera Rotator Bracket

Like the Di100CR, this bracket allows the camera to be rotated under the flash without moving the tripod head. It has a 1/4"-20 tripod socket for mounting on a standard tripod head. The Di400CR is a little larger than the Di100FR but is still small and light enough to give you a well balanced system. Fits all 35mm-type camera bodies with motor drives or boosters.

**Di400CR (NED1400CR) .....209.95**

### Tripod Rotators

The tripod rotator allows the camera to rotate on top of the tripod without moving the tripod head. The lens axis should be as close as possible in both horizontal and vertical positions. To match your camera type with the correct TPR, compare the TPR number with the CR bracket number. The camera combination would be the same.

**Di100TPR Tripod Rotator Bracket (NED1100TPR) .....149.95**

**Di400TPR Tripod Rotator Bracket (NED1400TPR) .....179.95**



### Flash Rotators

If you are mainly hand holding the camera when taking flash pictures then you want the Di100FR or the Di100FR2. SLRs without vertical grips or motors can use Newton's flash rotators. They both rotate the flash around the axis of the lens and keep it over the lens in both horizontal and vertical positions. The flash head is the same in either position allowing bounce flash in either position. Both brackets are small and most photographers leave the FR on their camera when storing but if storage is a consideration, then choose the FR2 because it will fold into a 4x5x1" size to fit in your camera bag.

**Di100FR Flash Rotator Bracket (NED1100FR) .....139.95**

**Di100FR2 Flash Rotator Bracket (NED1100FR2) .....179.95**

# STROBOFRAME

## FLASH BRACKETS

### Pro-RL

*Designed for cameras with built-in or accessory grips, the Pro-RL represents a major advance in handling speed and ease of use. It is supported comfortably with your left hand, leaving your right hand free to operate all camera and bracket controls. It is the best bracket to use with a tripod and the use of a cable release is not required.*

- ◆ Rotate your camera instantly and effortlessly from vertical to horizontal with a flick of the wrist. In each position, the flash remains centered over the lens, for optimum lighting quality. Fingertip-activated lock secures rotating system in the horizontal position.
- ◆ Exclusive, one-hand TiltTrigger lets you set the flash angle to any of 12 click-stop positions, from close-up to bounce.
- ◆ Unique "kickstand" pivots out and supports and stabilizes the bracket when set on a table or floor.
- ◆ One-handed, instant flash height adjustment. You can position the flash 11 to 18" above the lens, simply by twisting a knob and lifting the flash arm.
- ◆ When the bracket is mounted to a tripod, the flash can be positioned and aimed, and the camera rotated, just as if shooting hand-held.
- ◆ Compatible with cameras with accessory battery packs
- ◆ Integral QR Plate mates with optional QR Receiver, allowing the bracket and tripod to be attached or detached instantly.



Accepts all Strobiframe flash mounts, Camera Anti-Twist Plates and quick release accessories.

STPRL .....124.95

### Camera Flip (STCF)

Compact, lightweight and affordable, the Camera Flip is perfect for travel and convenient for storage in camera bags. Best used with cameras without add-on battery packs, but can be used with cameras who have built-in or accessory grips. The low-profile rotary-link system lets you turn the camera from horizontal to vertical with a flick of the wrist. The flash stays centered above the lens. Includes a machined, shoe-type flash mount, and a cushioned, neoprene foam grip that is comfortable for both shooting and carrying.....64.95



### PRO-T/PRESS-T Lightweight, Professional Brackets

*The Pro-T and Press-T are flash-rotating brackets designed for cameras with built-in or accessory grips. Both are light, compact and fast-handling with swinging flash arm to keep the flash centered over the lens for both horizontal and vertical compositions. They don't require a cable release. Unlike most brackets, the Pro-T is designed that you hold the camera rather than the bracket, for more natural shooting. Also allows you to instantly switch between horizontal and vertical compositions. Popular with photojournalists and other shooters who work out of a camera bag, the Press-T is a slightly shorter and more compact version of the Pro-T.*

- ◆ Pivoting, machined flash arm keeps the flash centered above the lens for both horizontal and vertical compositions.
- ◆ Integral QR Plate mates to optional QR Receiver, allowing the bracket and tripod to be attached or detached instantly.
- ◆ Pro-T incorporates 3° downward flash tilt for both horizontal and vertical compositions. This improves lighting coverage at typical flash shooting distances.
- ◆ Fully compatible with cameras with accessory battery packs
- ◆ Solid machined aluminum components combine to provide lightweight, superior rigidity and extraordinary balance.
- ◆ Accepts all Strobiframe flash mounts, Camera Anti-Twist Plates and Quick-Release (QR) accessories.

Pro-T (STPT) .....89.95

Press-T (STSPT) .....86.95

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# STROBOFRAME

## RL-2000

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### Compact, Side-Grip Style Rotary-Link Bracket

Stroboframe's most compact, side-grip style Rotary-Link bracket, the RL 2000 is a traditional-style flash bracket for those who prefer brackets with grips. Very compact and lightweight, it's intended for use with cameras without built-in or accessory grips and that have standard cable-release fittings; a cable-release is included.

- ◆ Rotate your camera instantly and effortlessly from vertical to horizontal with a flick of the wrist. In either position, the flash remains centered over the lens for optimum lighting quality.
- ◆ Dual American walnut grips. The palm grip helps you balance and support the bracket in your hand, while leaving your fingers free for fast focusing. The contoured side grip can be adjusted to any of four positions for maximum comfort.
- ◆ Three-position flash tilt selection for lighting all subjects evenly, particularly in close-ups.
- ◆ A cable release (supplied) attaches to the side grip. It can be adjusted to rest comfortably under your finger.
- ◆ The flash arm can be removed without tools, making the bracket more compact for storage in a camera bag.
- ◆ Bracket base accepts small battery packs, such as the Quantum Battery 1.



- ◆ Optional Low Platform (STCPLPRL2000) is required for use with cameras with larger accessory motor drives or battery packs such as Nikon MB-21 or Canon BP-E1. Replaces standard camera platform.
- ◆ Accepts all Stroboframe flash mounts, Camera Anti-Twist Plates and Quick-Release accessories.

### QUICK FLIP 350

#### Economical Flash-Rotating Bracket

Quick Flip models offer high value, compact size, light weight and fast handling. Although lower in price than Stroboframe's top-of-the-line brackets, it shares the same quality materials and construction. The Quick Flip 350

accepts all 35mm cameras except those with large, accessory battery packs or motor drives.

Quick Flip 350 (STQF350).....47.95



### STROBOFLIP

#### Ultra-Compact, "Gripless" Flash Rotating Bracket

Stroboflip cradles the camera unobtrusively while maintaining an over-the-lens flash position with a design that lets you hold the camera rather than a grip, and rotate the flash for horizontal or vertical composition. What's more, the stress and weight of the flash unit is transferred from the light-duty camera shoe to the rugged Stroboframe mount. Made for shoe-type flash units.



- ◆ Accepts all 35mm SLR and smaller 6 x 4.5 cameras
- ◆ Supplied with a machined, positive-locking shoe mount and a 35mm Anti-Twist Plate (interchangeable with other AT Plates)
- ◆ Strong, lightweight aluminum construction with baked-on finish for durability

Stroboflip (STVH2000).....68.95

### FOLDING FLIP Compact Folding Bracket

The Folding Flip bracket offers high value, compact size, light weight and fast handling. It is an ideal travel bracket that has an extra-wide base and multiple camera mounting slots to accept just about any digital or 35mm camera. The Folding Flip has a height of 9", but conveniently folds down to 8.5 x 3 x 3.75" (LDH), allowing you to carry it in your camera bag or photo vest pocket. The Folding Flip shares the same high quality materials and construction as the other Stroboframe brackets.

Folding Flip (STFF) .....69.95



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# STROBOFRAME

## R4B

### Full-size, Professional Rotary-Link Bracket

The standard for those who prefer brackets with full-size, dual grips, the R4B offers a higher flash position than the more compact RL 2000. Made for use with cameras having standard cable-release fittings. A cable release is included with the bracket.

- ◆ Rotate your camera instantly and effortlessly from vertical to horizontal with a flick of the wrist. In either position, the flash remains centered high above the lens for optimum lighting quality.
- ◆ Adjustable camera platform offers full compatibility with cameras with accessory battery packs or motor drives.
- ◆ Continuously variable flash tilt adjustment with friction lock.
- ◆ Dual American walnut grips. The full-size palm grip balances and supports the bracket in your hand while leaving your fingers free for fast focusing. The contoured side grip can be positioned for comfortable eye- or waist-level viewing.
- ◆ A cable release (supplied) attaches to the side grip.
- ◆ Extra-long flash arm folds for more convenient storage.
- ◆ Accepts all Stroboframe flash mounts, Camera Anti-Twist Plates and Quick-Release.



FLASHES & ACCESSORIES

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### Camera Auto Quick Release "QRC" Set

Mount and dismount your camera fast. This compact, low-profile quick release automatically docks and locks your camera or bracket to a tripod. The system consists of a QR Receiver mounted to the tripod, and a QR Plate attached to the camera. (Many Stroboframe brackets have an integral QR Plate already built in). Just lower the camera or bracket into the QR Receiver and push down...



your camera is mounted and securely locked into place. To remove the camera or bracket, squeeze the QRC's lever and lift out!

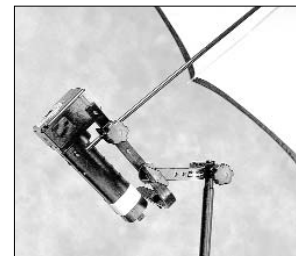
- ◆ The system is fully compatible with all 35mm and medium format cameras, you can use Camera Anti-Twist Plates.
- ◆ QRC systems are available as complete kits, including a QR receiver and/or QR Plate, or, you can purchase the QR Receiver alone for use with Stroboframe brackets that have integral QR Plates. Standard QR Plates are also sold separately.
- ◆ Use the unique QRC Quick-Release system with copy stands for faster, convenient film reloading without disturbing the setup, or for mounting spotting scopes for birding and target shooting. Skydivers even use them to mount cameras on their helmets!

Camera Auto Quick Release "QRC" Set (STQRC) .....56.50

Quick Release Mounting Plate for "QRC" System (STQRP).....14.95

### Flash/Umbrella Bracket for Light Stands

Achieve softer, better studio lighting on location with this versatile bracket. Holds any flash and umbrella and mounts onto any light stand, and its quick, easy adjustments let you position and aim light where you need it. The flash is centered on the umbrella's axis for even light distribution. A standard Stroboframe flash mount is required for shoe or handle-type flash units. A knob is included for mounting flash heads with 1/4"-20 sockets. The ultra-portable Flash/Umbrella bracket works with any light stand, umbrella and flash.



- ◆ Mounts onto any light stand with a mounting stud up to 5/8"
- ◆ Accepts umbrella shafts up to 3/8" diameter.
- ◆ Fully adjustable to maintain flash/umbrella centering.
- ◆ Heavy-duty, aluminum construction with baked-on, non-reflective finish.
- ◆ Large, easy-grip knobs for quick adjustments and secure locking.
- ◆ Folds flat for compact storage.
- ◆ Accepts all standard Stroboframe flash mounts.
- ◆ Supplied with standard 1/4"-20 flash mounting knob for flash units such as Lumedyne or dedicated cords such as the Nikon SC-17.

Flash/Umbrella Bracket (STBFULS).....44.95

### Vertaflip PHD On-Tripod Camera Rotator (STVFPHD)

A convenient tool for rotating your camera horizontally or vertically on a tripod without changing the lens axis. All tripod head controls remain in the same position, letting you concentrate on the subject. You can switch between horizontal and vertical compositions with a simple flick of the wrist. The Vertaflip PHD features a standard 1/4"-20 tripod socket in the base and a 1/4"-20 mounting knob in the camera platform. Heavy-duty, double-link construction assures rigidity, even when using heavy medium format cameras. The Vertaflip accepts optional Anti-Twist Plates and Camera Auto Quick Release.....46.95



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# DYNA-LITE

## JACKRABBIT

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### Power and Performance in a Small Package

A portable power pack for use with on-camera flash units, the Jackrabbit pack is the smallest and lightest (only 31 oz.) high voltage power pack available. Loaded with professional features, the Jackrabbit's compact and lightweight design makes it easy to carry with the supplied belt clip. Compatible with the Dyna-Lite Uni 400JR, supplying it with 75 full-power (320 w/s) flashes per charge without using AC power. Adapter cables are also available for many other manufacturers' flashes such as Nikon, Canon, Minolta, Metz, Sunpak and Vivitar.



#### FEATURES

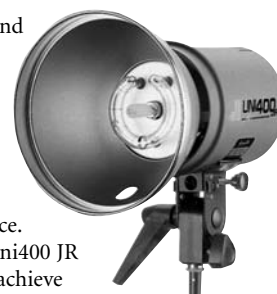
- ◆ Powerful performance with many 6- and 9-volt flash systems, with fast recycling time and 100% quiet operation
- ◆ Indicators include ready light, battery condition, and Key Mark (visual indicator). A continuous red LED indicates that the battery has dropped below 1/4 of its total charge and should be recharged.
- ◆ Dual high voltage DIN outputs
- ◆ Offers a sturdy belt clip, as well as Double "D" rings for an optional shoulder strap
- ◆ 400 full-power flashes per charge for shoe and handle mount flashes (hundreds more using automatic mode)
- ◆ 75 full power flashes with the Uni400JR
- ◆ Includes a 5-hour charger and it can be recharged in the field or on the way to an assignment, using the optional JR-CAR 12v DC car charger.

### Uni400 JR

#### AC or DC-Powered 400 W/S Monolite

The Uni400 JR weighs just 3.5 lbs. and packs a 400 watt-second wallop. Plugged into an AC outlet you get a fast 1.4 second recycle time at full 400 w/s power. Full, 1/2, 1/4 and 1/8 power settings in 1/3 stop steps provide a four f-stop range. Also features full tracking 100w quartz modeling light, and a built-in optical slave-eye.

Or you can use it on the road, providing the power of studio quality light anywhere, anytime—without an AC power source. Connected to the Jackrabbit high-voltage battery pack, the Uni400 JR can be used anywhere. With a freshly charged pack, you can achieve 75 full-power (320 w/s), 150 half-power and 300 quarter-power flashes.



DYU400JR  
**\$579<sup>95</sup>**

- ◆ Head mount has a 0.5" receptor to accommodate all umbrellas.
- ◆ Stand mount is universal to fit all light stands.
- ◆ Includes UV coated flashtube (P60012), 100w modeling lamp (ESR) and standard reflector
- ◆ Heavy-duty AC power cord and PC to "H" (household) sync cord

### Heavy-Duty, Coiled Hi-Voltage Jackrabbit Cables\* and Accessories

<b>JR-CZ Cable (DYJRCZ)</b> For Canon 430EZ, 540 EG5CT-1 and CT-5 .....	<b>34.95</b>
<b>JR-CL5 Cable (DYJRLC5)</b> For Minolta 5200i, 5400xi .....	<b>28.95</b>
<b>JR-CM1 Cable (DYJRCM1)</b> For Metz 45CT-1 and CT-5 .....	<b>31.95</b>
<b>JR-CM4 Cable (DYJRCM4)</b> For Metz 45CT-3 and CT-4, 45CL-1, CL-3 and CL-4.....	<b>31.95</b>
<b>JR-CK Cable (DYJRCK)</b> For Nikon SB-24/25/26/27 .....	<b>29.95</b>
<b>JR-CKE Cable (DYJRCKE)</b> For Nikon SB26 Euro, SB28/80DX.....	<b>30.80</b>

<b>JR-CS4 Cable (DYJRCS4)</b> For Sunpak AP52, 120J .....	<b>31.95</b>
<b>JR-CS5 Cable (DYJRCS5)</b> For Sunpak 411, 511, 522, 544, 555, and 611 .....	<b>29.95</b>
<b>JR-CV Cable (DYJRCV)</b> For Vivitar 283, 3700, 4600, 5200, 5600, 600 Series 1 .....	<b>29.95</b>
<b>JR-UNI Cable (DYUCU400JRG)</b> For Uni400 JR.....	<b>52.50</b>
<b>JR-CAR 12v DC Car Charger (DYCC)</b> .....	<b>53.95</b>
<b>JR-CH500 Super Charger (DYCS)</b> .....	<b>126.50</b>

\* Flash unit's internal batteries are needed

#### Kits



**Dynalite UNIJR-PS1 Kit (DYU400JRJK)**  
Includes a Uni400JR monolight, Jackrabbit battery, charger, AC and DC cables, and grid reflector (no stand or case) .....**819.95**

**Dynalite UNIJR-LW2 Package System (DYU400JR2K)**  
Includes a 2-Uni400JR monolights, 2 Jackrabbit batteries, charger, umbrellas, light stands and case.....**1934.95**



**EQUIPMENT LEASING AVAILABLE**

# NORMAN

## P200C/P400B

### Portable 200 W/S and 400 W/S Flash Power Supplies

The battery-operated P200C and P400B are the highest quality 200 and 400 W/S flash power supplies on the market today. They're all-aluminum housings are rugged and compact and they can be worn either over-the-shoulder or around the waist. A high-quality shoulder strap (R4127) with contour pad that hugs the shoulder is available as an option. Remove the pad and the strap ends hook together to hang the pack on a stand or on a door knob. A leather belt (R4122) is also available to wear the P200C or P400B around the waist.



They feature three (P200C) and four (P400B) power levels, quick recycling 1.5- and 3-seconds respectively, voltage stabilized output, quick-change battery, heavy-duty industrial lamphead connector and a low-battery light that warns the photographer when there are only 10 full power flashes remaining. The P200C is powered by the B4124 Super Battery, the P400B by the B5122 Super Battery—which in turn, are charged by the SC Super Charger for added battery life and performance.

The P200C accepts all Norman Series 450 lampheads; LH2K with 5' coil cord (standard), LH2K-M with modeling lamp circuit, LH2 with 20' straight cord and LH2-LS bare bulb lamphead with 3' straight cord. The P400B accepts Norman Series 500 lampheads including the LH52K with 5' coil cord (standard) and LH52K-M with modeling lamp circuit.



#### FEATURES

- ◆ 200 w/s output (P200C) or 400 w/s output (P400B)
- ◆ Up to 190 flashes per charge
- ◆ Flash outputs are digitally adjusted in 1/10th-stop increments over a 6-stop range (5-stops plus full)
- ◆ Three power levels on the P200C; four power levels on the P400B
- ◆ Fast 1.5-second recycling on the P200C; 3-seconds on the P400B
- ◆ Voltage stabilized output
- ◆ Quick-change battery
- ◆ Heavy-duty industrial lamphead connector
- ◆ Low-battery light that warns you when there are only 10 full power flashes remaining
- ◆ The P200C measures 8" x 4" x 2 1/2" and it weighs 3.75 lbs
- ◆ The P400B measures 10" x 5" x 3 1/4" and it weighs 6 lbs.

**P200C Power Supply (NO200C) .....\$29.95**

**P400B Power Supply (NO400B) .....\$69.95**

### ASSEMBLY KITS

#### A200C Assembly Kit (NO200CK):

Kit includes LH2K Flash Head; 2D Reflector; P200C power pack; B4124 nicad battery, shoulder strap and SC200CY Super Dual Charger.....**\$99.95**

#### A200CM Assembly Kit (NO200CMK):

Kit includes LH2KM Flash Head; 2D-ML Reflector; P200C power pack; B4124 nicad battery, shoulder strap and SC200CY Super Dual Charger.....**\$99.95**

#### A400B Assembly Kit (NO400BK):

Kit includes P400B power supply, LH52K Flash Head; 2D Reflector; two B5122 Super Batteries, SC400B Super Charger and a shoulder strap .....**\$107.95**

#### A400BM Assembly Kit (NO400BMK):

Kit includes P400B power supply, LH52KM Flash Head; 2D Reflector; two B5122 Super Batteries, SC400B Super Charger and a shoulder strap .....**\$112.95**



# NORMAN

## BATTERIES & CHARGERS



### Batteries

*The Super Batteries provide the P200C and P400B with over 190 full-power flashes per charge with no memory effect and dramatically long battery life.*

#### NiCad Battery for P200C (NOB200C)

Provides 190+ full power flashes at 10-second intervals .....104.95

#### NiCad Battery for P400B (NOB400B)

With two Super Batteries installed, the P400B provides 190+ full power flashes at 15-second intervals .....ea. 114.95

### Chargers

*The Super Charger is a state-of-the-art battery charger for charging two Norman 12v nicad batteries simultaneously, including the B4124 and B5122 Super Batteries. It obtains a complete charge without heating the battery cells. Charge time from dead-to- full is about 3-hours. Shorter charge times will be noticed if the batteries have some charge left in them when placed on the charger.*

#### SC Super Charger (NOSC)

For P200C/P400B .....249.95

#### SC-200C Super Charger

with R5002 Cable (NOSC200C)

For use with the 200C Power Supply...259.95

#### SC-200CY Super Charger

with R5005 "Y" Cable (NOSC200CY)

For use with two 200C's .....279.95

#### SC-400B Super Charger

with R5003 Cable (NOSC400B)

For use with the P400B's .....289.95

#### Dual External Battery Charging Tub (NOT200C)

Simplifies battery maintenance, by allowing you to charge one or two B4124 batteries at the same time. Connects to the Super Charger .....63.00

#### R5002 200C Charge Cable (NOCC200C)

Connects Super Charger to 200C 3-pin charger outlet .....15.95

#### R5005 200C "Y" Charger Cable (NOYC200C)

Connects the Super Charger to the 3-pin charger outlets on two 200C Power Packs .....40.95

#### R5003 400B Charging Cable (NOCC400B)

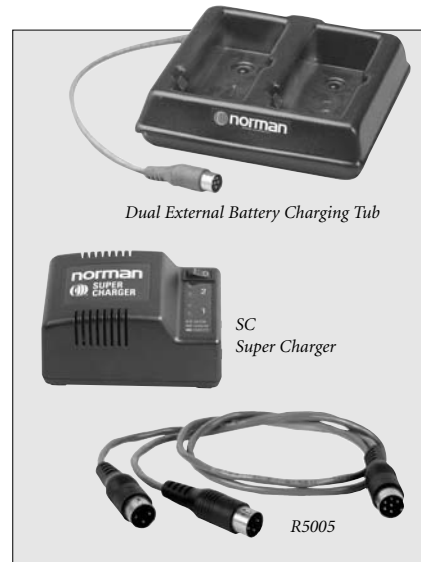
Connects the Super Charger to 400B lamphead connector .....31.95

#### R5006 400B "Y" Charging Cable (NOYC400B)

Connects the Super Charger directly to two B5122 batteries .....40.95

#### R5201 12v Auto "Cigarette Lighter"

Charger Power Cable (NOCLCC200C)  
Connects the Super Charge to a 12v power source .....19.95



#### R4127 Contour Shoulder Strap (NOR4127)

For use on the P200C and 400B. Remove the pad and the strap ends hook together to hang on a stand .....26.50

#### R4122 Leather Waist Belt (NOCABPPP)

Can be used with the P200C and P400B NiCad batteries .....26.75



### Softboxes

Get quality softbox lighting from your battery portable flash system. Designed for Norman LH2 and LH52 portable heads, the 12" square SSB12-BP and the 19" octagonal OSB19-BP can also be used on most Quantum Q Flash and Lumedyne lampheads. Much like the Norman Studio Softbox design, these units "pop-up" like an umbrella. No loose parts or assembly required, except for the removable front diffusion panel that attaches with Velcro. No speed ring adapter is required. Each Softbox attaches to the lamphead like a standard reflector. On Norman lampheads, just position over the flashtube and tighten the reflector locking screw.

12" Square Softbox for Battery Powered Flash Heads (NO12SBBP) .....37.95

19" Octagonal Softbox for Battery Powered Flash Heads (NO19OSB) .....39.95



For Any Inquiries Regarding Your Order, Call Our Customer Service:  
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# NORMAN

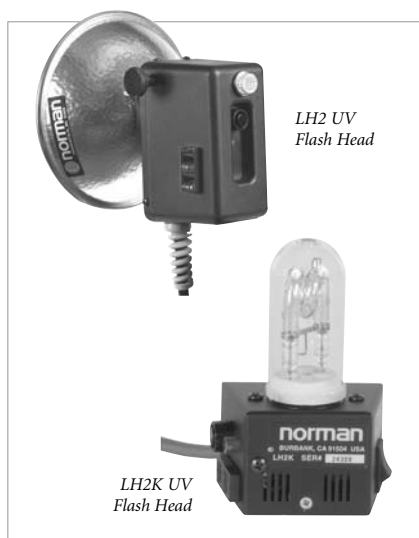
## LAMPHEADS

### 200 W/S Portable Lampheads\*

**LH2 UV Flash Head with 20' Cable (NOLH2)**  
A lightweight, extremely portable head that has recessed controls to prevent accidental flashing. It includes an FT120-UV plug-in flashtube with UV filtration and a 20' cable. A standard 1/4-20 threaded hole on the bottom gives you endless mounting options. Use the R4108 and R4130 Umbrella Stand Adapters to attach it to a light stand ....**159.95**

**LH2K UV Flash Head with 5' Coiled Cord (NOLH2KQ)**  
The LH2K is the same as the LH2, except it comes with a 5' coil cord with a vinyl jacket that won't crack or split .....**149.95**

**LH2KM UV Flash Head with 5' Coiled Cord (NOLH2KMQ)**  
Same as above, except it also features a 12v modeling lamp circuit that automatically switches off after each flash or after 20 seconds, whichever comes first. This prevents draining of the battery .....**255.00**



\*Lampheads don't include a reflector

**R4101 Camera Bracket (NOBC)**  
Mount the LH2 and LH52-type lampheads to any 35mm camera at a height that prevents "red-eye" .....**84.50**

### 400 W/S Portable Lampheads\*

**LH52 Flash Head with 20' Cable (NOLH52)**  
Designed for use with the P400B, the lightweight LH52 includes an FT400-UV plug-in flashtube with UV filtration and a 20' cable. Standard 1/4-20 threaded hole on the bottom gives you endless mounting options. Use the R4108 and R4130 Umbrella Stand Adapters to attach the LH52 to a light stand.....**179.95**

**LH52K Flash Head with 5' Coiled Cord (NOLH52K)**  
The LH52K is the same as above, except it comes with a 5' coil cord with vinyl jacket that won't crack or split.....**182.00**

**LH52KM Flash Head with 5' Coiled Cord (NOLH52KM)**  
LH52KM is the same as above, except it also features a 12v modeling lamp circuit. The modeling lamp circuit automatically switches off after each flash or after 20 seconds, whichever comes first. This prevents draining of the battery.....**249.95**

FLASHES & ACCESSORIES

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## REFLECTORS

**2D: 5" Standard Reflector Lampheads:**  
5" general purpose reflector accepts all Norman 5" barndoors, grids, filters and R9111 reflector cover. Used on LH2 and LH52 heads.

**For LH2 Heads (NOR5LH2K) .....19.95**  
**For LH52 Heads (NOR5LH52K) .....19.95**

**2D-ML: Standard Reflector with Modeling Lamp:**  
5" reflector with 50w quartz modelling lamp.

**For LH2 Heads (NOR5MLLH2KM) .....39.95**  
**For LH52 Heads (NOR5MLLH52KM) .....39.95**

**2D-RP: White Reflector with Frosted Diffusion Dome**  
A 5" 120° soft diffused wide angle reflector with a built-in permanent frosted glass diffusion dome.

**For LH2 Heads (NOR5DDLH2K) .....36.95**  
**For LH52 Heads (NOR5DDLH52K) .....36.95**

**2DRP-ML: White Reflector with Modeling Lamp**  
A 5" 120° soft diffused wide angle with 50w quartz modeling lamp.

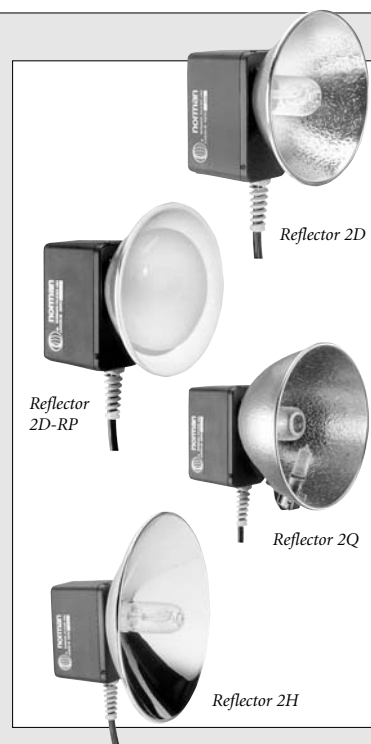
**For LH2 Heads (NOR5DDMLLH2K) .....64.95**  
**For LH52 Heads (NOR5DDMLLH52) .....64.95**

**2Q: 6" Reflector with 150 watt/115 Volt AC Modeling Lamp**  
Converts the 200C or 400B into a studio system. Ideal for umbrella use. Requires an R4153 AC extension cable for the modeling lamp, but not needed on AC-operated power supplies.

**For LH2 Heads (NOR6LH2K) .....52.00**  
**For LH52 Heads (NOR6LH52K) .....52.00**

**2H: 8" Reflector with R4112 Optical Spacer**  
8" reflector has a mirror surface and R4112 optical spacer, and provides a long throw for use with telephoto camera lenses in sports, news or wildlife applications.

**For LH2 Heads (NOR8LH2K) .....66.95**  
**For LH52 Heads (NOR8LH52K) .....66.95**



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# LUMEDYNE

## NEXT GENERATION SERIES

### Power Packs

Incorporating over thirty years of proven technology together with modern manufacturing, Lumedynes 'Next-Generation Power Packs' are their best high power flash systems ever. The natural evolution of the existing Lumedyne system, the Next-Generation packs are backward compatible with boosters, high speed modules, chargers and flash heads. Existing heads plug directly into the pack, while the Next Generation heads use an extension cord or head cable to plug into the pack. The packs offer similar controls, a 7 LED light battery gauge and 4 f-stops of manual control through one or two flash heads. 7 f-stop control is possible with an optional Auto Module. Packs are straightforward and simple to operate with one main control and an On/Off button for the battery gauge.

Available in 200 or 400 w/s packs, one or two flash heads may be used in manual without needing extra adapters. Very low power settings help with faster film speeds, digital cameras and confined spaces, and conserve battery power. They include a full two-year warranty and are powered via battery, AC power supply or car adapter.



### FEATURES

- ◆ They have two Lumedyne-style head jacks, so power is symmetrically divided if two heads are used.
- ◆ You can use Auto Modules to control the flash heads individually in manual or automatic with seven f-stops of control.
- ◆ 100% charge recycle indication lights up during recycling and goes out when the pack has achieved 100% charge.
- ◆ Recycling time can be reduced with high-speed modules
- ◆ A variety of AC adapters are available for use in the studio and in your vehicle.
- ◆ For power and flexibility add on 200 w/s or 400 w/s booster modules up to a total of 2400 w/s.
- ◆ Optional booster modules also have a separate power switch that enables you to vary the power distribution between the different flash heads.
- ◆ Threaded inserts (pre-tapped holes) allow a belt clip or any other accessory to be installed easily.
- ◆ They include an Op-Tech shoulder strap
- ◆ Compatible with the Classic and Signature Flash Heads, batteries and accessories
- ◆ While not waterproof, they are splash and rain resistant.



### P2NF

#### 200ws Next Generation Power Pack with Fast Recycling

- ◆ 25ws in 0.4 sec., 50ws in 0.7 sec., 100ws in 1.3 sec. and 200ws in 2.5 sec.
- ◆ 4 f-stops with settings at 25ws, 50ws, 100ws and 200ws
- ◆ Seven light LED battery gauge at a touch of a button
- ◆ Directly accepts the Quantum QFX head

LUP2NF.....479.95

### P2NX

#### 200ws Next Generation Pack with X-Tra Fast Recycling

The same as the P2NF except it recycles twice as fast every flash—25ws in .2 sec., 50ws in .4 sec., 100ws in .7 sec. and 200ws in 1.3 seconds (can't use small batteries).

LUP2NX.....567.95

### P4NF 400ws Next Generation Pack with Fast Recycling

- ◆ 50ws in 0.7 second, 400ws in 5 seconds
- ◆ Four f-stops of control with settings at 50ws, 100ws, 200ws and 400ws
- ◆ Seven light LED battery gauge at a touch of a button

LUP4NF.....624.95

### P4NX 400ws Next Generation Pack with X-Tra Fast Recycling

The same as the P4NF except it recycles twice as fast every flash—50ws in 0.4 second, 400ws in 2.5 seconds (X-Tra Fast Packs cannot use small batteries)

LUP4NX.....689.95



# LUMEDYNE

## NEXT GENERATION SERIES

### Flash Heads

The flash heads are electronically able to handle 2400ws (they are only limited by the 800ws or 2400ws Quartz Flashtube in the head). They have a round shape, 1/4-20 threaded mount, and have an ultra lightweight PVC plastic body. This makes them popular for camera bracket mounting.



These Heads are compatible with all generations and styles of Lumedyne Power Packs. There are no TTL Connections on these Heads only dual sync connections (1/8" mini-phone and house-hold). Next Generation Flash Heads can be customized to have TTL compatible connections for Quantum or Metz TTL Modules (but they will be longer and notably more expensive.)

You must have a Lumedyne TTL compatible Power Pack to utilize TTL features and original Quantum or Metz TTL modules and cables. Lumedyne Heads are not E-TTL or D-TTL compatible because of pre-flash light metering requirements.

Heads include two densities of Diffusers, a metal Snoot, Guide Cards, a two-position reflector, 25 watt Modeling Bulb and 800ws UV or 2400ws Quartz UV Flashtube.

Heads are available with a built-in 5' straight or 3-to 7' coiled, or a pig-tail cable option for those who want to use Auto Modules or just remove the separate head cable for transportation.

**800 W/S Flash Head (LUHERS):** With modeling light and 5' straight head cable .....**219.95**

**2400 W/S Flash Head (LUHQRS):** With modeling light and 5' straight head cable .....**322.95**

**800 W/S Flash Head (LUHERC):** With modeling light and 3-7' coiled head cable .....**258.95**

**2400 W/S Flash Head (LUHQRC):** With modeling light and 3-7' coiled head cable .....**338.95**

**800 W/S Flash Head (LUHERN):** No head cable, with pig-tail connector\* .....**213.95**

**2400 W/S Flash Head (LUHQRN):** No head cable, with pig-tail connector\* .....**315.95**

\* Five Head Cables are available from 18" to 20', or use a Head Cable from the Pack to an Auto Module then connect it to the Head.

### Action Series

*Action Packs are ideal for those photographers need a high power flash with a very short flash duration. This allows faster shutter speeds and will produce sharper images of fast action much better than a normal flash of similar power.*



◆ Action Series packs are designed for extreme sports, rodeo, racing, scientific and nature photographers who need to stop action that is not very close to them. These packs will not freeze a bullet fired from a gun. The tips of a hummingbird's wings may still show very slight motion. They are the most effective at the highest settings because that is four times faster than a normal flash at that power. At half power, they are twice the speed of a normal flash of similar power. At the lowest setting, they are equal to Lumedyne's normal flash duration for that power.

◆ The Action Packs will flash at all three power levels with the same fast flash duration. Normally, to double the power required to reach the next f-stop, a flash lasts twice as long. These packs actually get twice as bright for the same flash duration. Each pack can double up this way to provide three power settings. Each Pack has one head jack and a battery gauge. A weight reduction Op-Tech shoulder strap is included.

◆ The X-tra fast recycling times of these packs require a Medium Battery or larger for best performance. The 200ws recycle time is only 1.3 seconds, 2.5 seconds for 400ws. High Speed Modules can be used to provide even faster recycling if you have Extra Large Batteries.

◆ Action Packs will NOT work Booster Modules, and AC power supplies, as well, must not be used with them. The Vehicle Adapter works fine if you have a 30 amp fuse in-line to your cigarette lighter, those are normally 15 amp from most car companies.

◆ While the Action Packs are compatible with all Lumedyne Flash Heads, the 2400ws Quartz Flashtube is required for the 400ws P4XX and recommended for the 200ws P2XX. No other brand of flash head or Auto Module should be used with the Action Packs. The guide number of the light output is about equal to Lumedyne's normal flash systems, it just happens much faster.

◆ Some cameras can sync with a flash at faster shutter speeds, but that could cut off some of the light output from a high power flash. These packs allow you to cut down the ambient light with your faster shutter speed without cutting off the end of the flash illumination.

#### P2XX (LUP2XX)

200ws Power Pack with X-tra fast flash duration and X-tra fast recycling —three f-stops with 50ws – 100ws – 200ws. All with 1/3000 second flash duration .....**648.95**

#### P4XX (LUP4XX)

400ws Power Pack with X-tra fast flash duration and X-tra fast recycling —three f-stops with 100ws – 200ws- 400ws. All with 1/1500 second flash duration .....**768.95**

# LUMEDYNE

## SIGNATURE SERIES

### Power Packs

Stepping up from the Next Generation power packs, the Signature Series power packs each offer 7 f-stops of manual control and have 4- or 7-LED light power gauges. Their very low power settings make them ideal with fast speed film and confined spaces, as well as for saving power. All Signature Series power packs, flash heads and modules include a 2-year warranty. Packs are available with 200ws or 400ws in 'Basic' or 'Deluxe' version with fast or 'x-tra' fast recycling. Adapters are available to run the Quantum Q-flash X2 up to 400ws.

The Deluxe Packs offer the same versatility with a seven light battery gauge and a TTL setting with optional audible confirmation. TTL is accomplished by using Metz brand SCA TTL adapters plugged into a Deluxe Flash Head. The Deluxe Packs also offer a Manual Trim Control to go variably down to the next manual f-stop. One or two flash heads may be used in manual or TTL without needing extra adapters. TTL functions up to 2400 w/s with boosters added.



### FEATURES

- ◆ They have two Lumedyne-style head jacks, for full power to one head or symmetrical power to two heads
- ◆ Seven f-stop range (3ws to 200ws; 6ws to 400ws with indicators)
- ◆ Four light battery gauge with On/Off button
- ◆ OK, Boost and Ready indicators
- ◆ Reinforced side panels
- ◆ You can use Auto Modules to control the flash heads individually in manual or automatic with seven f-stops of control.
- ◆ 100% charge recycle indication lights up during recycling and goes out when the pack has achieved 100% charge.
- ◆ Recycling time can be reduced with high-speed modules
- ◆ Powered by four sizes of batteries all with 100-month Pro-rate warranties, as well as a variety of adapters for use in the studio and in a vehicle.
- ◆ For power and flexibility add on 200 or 400 w/s booster modules up to 2400 w/s.
- ◆ Optional booster modules also have a separate power switch that enables you to vary the power distribution between the different flash heads.
- ◆ Threaded inserts (pre-tapped holes) allow a belt clip or any other accessory to be installed easily.
- ◆ They include a shoulder strap
- ◆ Splash and rain resistant
- ◆ 2-year warranty

### Basic Packs

#### 200ws Signature Series Basic Power Pack with X-tra Fast Recycling (LUP2BX)

Seven f-stops from 3ws to 200ws, full recycle in 1.3-sec. Only accepts medium to large-size batteries.....698.95

#### 400ws Signature Series Basic Power Pack with Fast Recycling (LUP4BF)

Seven f-stops from 6ws to 400ws, full recycle in 5-Sec. Use any size battery .....744.95

#### 400ws Signature Series Basic Power Pack with X-tra Fast Recycling (LUP4BX)

Same as the P4BF except it recycles twice as fast — full recycle in 2.5 Sec. Only accepts medium to large-size batteries .....834.95

### Deluxe Packs Step-up Features

- ◆ Trim Control allows you to adjust Manual power between f-stop settings with indicator
- ◆ Volume control for audible TTL confirmation with indicator
- ◆ Head jacks also accept two TTL Heads without extra adapters
- ◆ Seven LED light battery gauge with On/Off button
- ◆ OK, Boost, Ready and TTL indicators

### Deluxe Packs

#### 200ws Signature Series Deluxe Power Pack with X-tra Fast Recycling (LUP2LX)

Seven f-stops from 3ws to 200ws, full recycle in 1.3-sec.. Only accepts medium to large-size batteries.....798.95

#### 400ws Signature Series Deluxe Power Pack with Fast Recycling (LUP4LF)

Seven f-stops from 6ws to 400ws, full recycle in 5-Sec. Use any size battery .....844.95

#### 400ws Signature Series Deluxe Power Pack with X-tra Fast Recycling (LUP4LX)

Same as the P4LF except it recycles twice as fast —full recycle in 2.5 Sec. Only accepts medium to large-size batteries.....934.95



EQUIPMENT LEASING AVAILABLE

# LUMEDYNE

## SIGNATURE SERIES

### Flash Heads

Signature Series Flash Heads are strong enough to support large softboxes, yet light enough to be hand carried on a bracket. They have a green ready light next to the test fire button to show when they are ready. Weather resistant, the heads can be powered up to 2400 w/s limited only by the flashtube. Sync via the H-Plug or mini phono sync jack. A switchable 25w modeling light is standard. An indicator on the back of the head lights up when the modeling light is on.

- ♦ UV coated flashtube provides accurate color rendition.
- ♦ User replaceable — no tools are required to replace this “plug and play” flashtube.
- ♦ 1/4”-20 thread enables easy mounting on a camera bracket, light stand or tripod.
- ♦ A test fire button lets you fire the strobes when the pack may be out of reach.
- ♦ Metal frame makes them the strongest portable flash heads
- ♦ Knurled knob to adjust reflectors and accessories
- ♦ Two-position reflector (normal and W/A)
- ♦ A Lumedyne head cable is needed to connect the head to the power pack. 5, 10 or 20’ straight or 3-7’ coiled cable is available.

**800 w/s Flash Head (LUHEBC) .....229.95**

**2400 w/s Flash Head (LUHQBC).....304.95**

### Deluxe Heads (Step-up Feature)



These heads have options for either Quantum or Metz SCA TTL modules and an Audible Recycle Indicator with volume control.

**Deluxe 800 w/s Flash Head (LUHEDM)**  
For Metz.....**274.95**

**Deluxe 800 w/s Flash Head (LUHEDQ)**  
For Quantum.....**274.95**

**Deluxe 2400 w/s Flash Head (LUHQDM)**  
For Metz.....**384.95**

**Deluxe 2400 w/s Flash Head (LUHQDQ)**  
For Quantum.....**384.95**

### COMPLETE KITS



### 200ws LumeKits

#### Next Generation

##### X-tra Fast 200 w/s Kit

Includes: P2NX 200ws X-Tra Fast Power Pack, HERC 800ws Flash Head, Coiled Cable, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZKN3) .....**1024.95**

##### Action Pack 200 w/s Kit

Includes: P2XX 200ws X-tra Fast Power Pack, HQRC 2400ws Flash Head, Straight Cable, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZKX2) .....**1084.95**

#### Signature Series

##### Basic X-tra Fast 200 w/s Kit

Includes P2BX 200ws Basic X-tra Fast Power Pack, HEBC 800ws Flash Head, HCCD 7’ coiled cord, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZK24).....**1244.95**

#### Signature Series Deluxe

##### X-tra Fast 200 w/s Kit (w/Metz)

Includes P2LX 200ws X-tra Fast Deluxe Power Pack, HEDM 800ws Signature Deluxe SCA Metz TTL Flash Head, HCCD 7’ coiled cord, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZK26).....**1387.95**

##### Signature Series Deluxe X-tra Fast 200 w/s Kit (w/Quantum)

Includes P2LX 200ws X-tra Fast Deluxe Power Pack, HEDQ 800ws Signature Deluxe SCA Quantum TTL Flash Head, HCCD 7’ coiled cord, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZK27).....**1387.95**

*Each kit comes with a Pack, Head, Battery, Charger, Head Cable, Sync Cord, 2 Diffusers, Snoot, and Guide Cards.*

### 400ws LumeKits

#### Next Generation Fast 400 W/S Kit

Includes: P4NF 400ws Fast Power Pack, HERS 800ws Flash Head, Straight Cable, BSML Small Battery, CT1U Single Trickle Charger, ASC1 Sync Cord (LUZKN4) .**984.95**

#### Next Generation

##### X-tra Fast 400 W/S Kit

Includes: P4NX 400ws X-Tra Fast Power Pack, HERC 800ws Flash Head, Coiled Cable, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZKN5) .....**1154.95**

##### Action Pack 400 W/S Kit

Includes: P4XX 400ws X-tra Fast Power Pack, HQRC 2400ws Flash Head, Straight Cable, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZKX4).....**1204.95**

#### Signature Series

##### Basic Fast 400 W/S Kit

Includes: P4BF 400ws Basic Fast Power Pack, HEBC 800ws Flash Head, HCST 5’ straight extension cord, BSML Small Battery, CT1U Single Trickle Charger, ASC1 Sync Cord (LUZK40) .....**1164.95**

#### Signature Series

##### Basic X-tra Fast 400 W/S Kit

Includes P4BX 400ws Basic X-tra Fast Power Pack, HEBC800ws Flash Head, HCCD 7’ coiled cord, BMED Medium Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZK44).....**1354.95**

#### Signature Series

##### Deluxe Fast 400 W/S Kit

Includes P4LF 400ws Deluxe Fast Power Pack, HEDM 800ws Flash Head, HCCD 7’ coiled cord, BSML Small Battery, CQ1U Quick Trickle Charger, ASC1 Sync Cord (LUZK42) .....**1349.95**

# LUMEDYNE

## QUADRAMATIC SERIES

### 400 w/s Power Pack

*This full power 400ws Power Pack with X-tra Fast recycling times is made to be used with a power control Head like the Quantum X series Q-Flash Heads or any of Lumedyne's Heads used with an Auto Module for power control. The simplicity of this pack is that there is no power level switch to accidentally have in the wrong power setting. Less parts make it slightly less expensive than a similar pack with power control, but also has less components that could possibly fail or malfunction. It has an On/Off switch and a battery gauge, that's it. The pack only needs to be turned "On", there are no power options but you can always check the strength of the battery currently connected. Includes an Op-Tech Shoulder Strap.*



- ◆ Designed for those who always shoot full power, like team sports images for example
- ◆ One of the head jacks is directly compatible with the Quantum Q-Flash X, X2 or X2D Flashes. As a raw power source for the QFX Heads, all of Quantum's TTL and Digital TTL features function normally.
- ◆ Quantum QFX Heads also offer automatic and manual control with push button control in third f-stops. (Remember that the Quantum Heads are limited to 400ws!)
- ◆ The other head jack is Lumedyne's normal style which can also be used at full power with any Lumedyne Flash Heads.
- ◆ With Lumedyne's Auto Modules you can control the power via seven f-stop settings in either Manual or Automatic Power.
- ◆ Lumedyne's Auto Modules and Flash Heads can be boosted up to 2400ws provided you have a Quartz Flashtube.
- ◆ The Auto Modules have built-in light sensors and need only be pointing at the subject while the Head can be bare bulb or in a light modifier or reflecting off anywhere within reach of Extension Head Cords. Confirmation lights let you know if you have enough power for the desired f-stop.
- ◆ Imagine having a stand with a pack and battery clamped at the bottom, an Auto Module mounted in the middle looking at your subject and a lightweight Head on top with a light modifier for professional results. Just aim, choose an f-stop and shoot. With a radio slave, it is completely wireless and secure from the errant flashes a slave produces when others take pictures.

#### P4QX

- ◆ 400ws Quadramatic Power Pack with X-Tra Fast Recycling (2.5 seconds at 400ws)
- ◆ The same as the P4QF except it recycles twice as fast for every flash. X-Tra Fast Packs cannot use small batteries

LUP4QX .....598.50

### Optional Flash Tubes and Modeling Bulbs

*Modeling flashtubes have a circular design that casts a slightly wider (and more even) distribution of light than conventional tubes, which is why modeling heads have 1/2 f-stop lower guide numbers. Modeling flashtubes will fit any Lumedyne head, but the modeling light itself is only available in modeling heads. Standard flashtubes fit only the standard heads, and produce the maximum light output per w/s because the angle of coverage is slightly lower.*

#### 800 w/s UV Tinted Flashtube for Standard Head (LU097V)

Standard flashtubes fit only the Standard heads, and produce the maximum light output per w/s because the angle of coverage is slightly lower.....49.95

#### 800 w/s UV Tinted Flashtube for Modeling Head (LU093V)

This is one of the most common flashtubes included in the modeling heads - the front of the yellow UV coated glass dome is open to vent the heat from the modeling light.....49.95



#### 2400 w/s Quartz Flashtube for Standard Head (LU097Q)

This is a plug-and-play flashtube that will handle a maximum of 2400 w/s, and will fit standard "Classic" Lumedyne flash heads .....153.95

#### 2400 w/s Quartz Flashtube for Modeling Head (LU093Q)

Fits any head and handles up to 2400 w/s - Quartz helix can handle the extreme power and heat and is protected with a wrap around UV tinted dome .....142.95

#### Spare 25W Bulb for Modeling Heads (LU095)

The separate small glowing bulb mounted in the center of the modeling flashtubes ....16.95

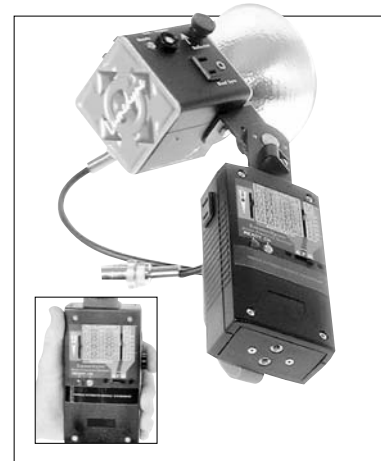
# LUMEDYNE

## HAHM

### Auto Exposure Handle Module for Lumedyne Flash Heads

Now you can also control the exposure of any head with it's own Auto Module—up to 2400ws. Shaped like a fat handle for a strobe, the HAHM Auto Exposure Handle has seven manual settings and seven auto settings all of which can be trimmed in between settings for exact exposures. Manual power above 200ws is controlled by the power pack. Automatic power is controlled by the HAHM up to 2400ws. Head Cables are used to connect to both the pack and the head. You can use Head Cables to mount the Head away from the auto sensor and control panel. This is handy in order to use light modifiers or go off camera while the sensor and controls stay near the camera.

- ◆ Seven manual f-stops with trim control between f-stops from 3ws-200ws
- ◆ Automatic exposures between 3ws and 2400ws with trim control between 7 f-stops
- ◆ 1/4-20 threaded mounts on the top and bottom allow for various mounting techniques
- ◆ Test fire, OK confirmation and sync connection



**Autoexposure Handle Module**  
(LUHAHM) .....256.50

FLASHES & ACCESSORIES

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### Head Cables (Can be used directly to a Flash Head or as an Extension Cord)

**HCST:** 5' straight cord with male and female Lumedyne connectors (LUHCST) .....46.80

**HCCD:** 3-7' coiled with male and female Lumedyne connectors (LU035) .....57.95

**HC10:** 10' straight with male and female Lumedyne connectors (LU036) .....49.95

**HC20:** 20' straight with male and female Lumedyne connectors (LU032) .....58.50

**HCA1:** 1' straight cord with male and female Lumedyne connectors. Used as an extension cord for an Auto Module on a camera bracket (LUHCA1).....39.95

**HFTX:** Plugs into the head where the flash-tube normally goes and extends the flash-tube to the end of the 5' cable (LU037) ....66.95

**HAQQ:** Adapts the Lumedyne-style head jack on a pack to a Quantum-style connector for the QFX heads (LUHAQQ) .....35.10

### Booster Modules

Booster modules add extra power to your system. When you double the w/s (watt/seconds), you gain one f-stop (200ws to 400 ws) and get half as many flashes per charge. Boosters only effect the highest setting on a power pack. They are available in 200ws or 400ws levels. Deluxe boosters have additional asymmetrical flash head jack(s). The 200ws Deluxe Booster has one extra head jack controllable at 100 or 200ws or send the boost up to the Pack. The 400ws Deluxe Booster is like two of the 200ws Deluxe Boosters in one box and has two individually controlled head jacks.

#### **X2BC** (LU071A)

200ws of additional power when it is stacked between the battery and power pack. On/Off switch for the additional boost power. Can be stacked with other boosters .....171.00

#### **X2DL** (LU072)

200ws of additional power stacked between the battery and power pack. One head jack. Send the power up to the pack or 200ws/100ws to head jack on the booster. Can be stacked with other boosters for more options. Can be used on AC alone ..202.00

#### **X4BC** (LU073)

400ws of additional power when it is stacked between the battery and power pack. On/Off switch for the additional boost power. Can be stacked with other boosters .....299.95

#### **X4DL** (LU074)

400ws of additional power stacked between the battery and power pack. Two head jacks. Send some or all of the power up or divide symmetrically between the head jacks. Can be stacked with other boosters. Can be used on AC alone.....339.95



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# LUMEDYNE

## POWER PACK ACCESSORIES

FLASHES & ACCESSORIES

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### Batteries for Power Packs

Lumedyne batteries all carry an 8-year pro-rated performance guarantee. The PEPI protects the battery and gives you a full charge indication while on charge. In addition, there is no memory problem so you can charge them when you want without having to run them down. Batteries are proportional in size, weight, performance and cost.

#### BSML Small Battery (LU024C)

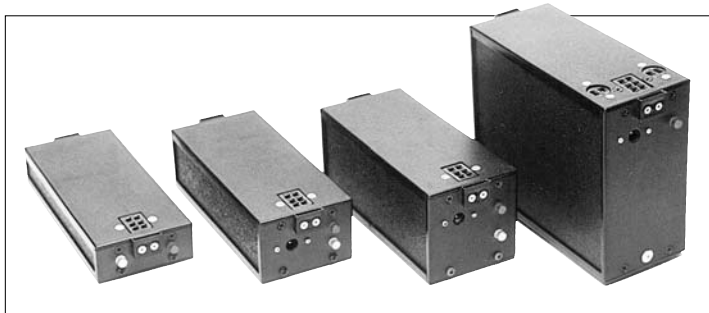
100 flashes at 200ws, 6-hour Trickle Charge, 3-hour Quick Charge, 2-hour Ultra Charge. (Not for use with X-Tra Fast recycling Power Packs or High Speed Modules) .....**109.95**

#### BMED Medium Battery (LU025C)

200 Flashes at 200ws, 12-hour Trickle Charge, 6-hour Quick Charge, 4-hour Ultra Charge (can be used with any recycling speed Power Packs, not for High Speed Modules) .....**174.95**

#### BGPA Battery Gauge and Power Adapter Module (LUBGPA)

Use the Battery Gauge and Power Adapter to test batteries with or without a Power Pack, as well as power video lights. It has a 7-light battery gauge, cigarette lighter jack and volt meter jacks.....**119.95**



#### BLRG Large Battery (LU026CK)

300 Flashes at 200ws, 18-hour Trickle Charge, 9-hour Quick Charge, 6-hour Ultra Charge (can be used with any recycling speed Power Packs and for Fast High Speed Modules) .....**249.95**

#### BXLG X-Large Battery (LU028CK)

600 Flashes at 200ws, 18-hour Quick Charge, 12-hour Ultra Charge, (not suitable for Trickle Charge). Can be used with any recycling speed Power Packs—required for X-Tra Fast High Speed Modules .....**476.00**

### High Speed Modules (HSM)

High Speed Modules speed up the recycling time of the system. There are two options Fast or X-tra Fast. The Fast Module requires a Large or X-tra Large Battery. The X-tra Fast High Speed Module will only connect to the X-tra Large Battery. This system with an X-tra Fast 400ws power pack and an X-tra Fast High Speed Module will recycle the full 400ws in about one second. The X-tra Large Battery required would guarantee 240 full power flashes. Put the HSMs next to the battery at the bottom of the system, and the system automatically recycles faster in every setting.

#### XSMF (LU054X)

Fast HSM cuts the recycle time in half for a Fast Pack. Stacks just above the battery. Requires Large or X-Tra Large Battery. Not for use on AC power. Weighs 1.1 lb .....**171.00**

#### XSMX (LU054Z)

X-Tra Fast HSM cuts the Fast Pack recycle in 1/3 or half of X-Tra Fast. Stacks just above X-Tra Large or Vehicle Battery Compartment only. (The Vehicle Battery Compartment may be used with HSMs as if it were an ultra battery. Requires Large or X-Tra Large Battery. Not for use on AC power. Weighs 1.7 lb.....**307.95**



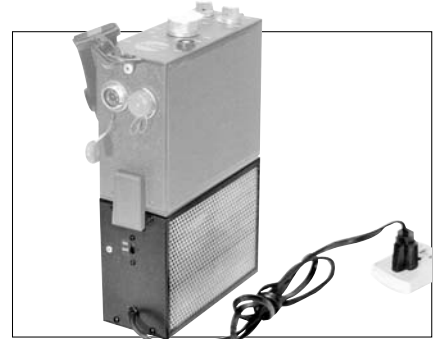
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# LUMEDYNE

## POWER PACK ACCESSORIES

### AC Power Adapters

A viable alternative to battery operation when you have AC power conveniently available, AC adapters allow you to remove the battery and run the system from a wall outlet creating an effective compact studio flash. They are equipped with Auto-Sensing circuitry designed to work seamlessly between 120v and 220v AC—no switching or adjusting needed! They are also protected from overload with a thermal “Slow Down” mode. Finally, their cooling fans are rated with a duty cycle of a professional AC strobe.



**XACF (LUXACF):** 120/240v Basic AC power supply with up to three modeling lights (low voltage) power. Has fast recycle rate regardless of which power pack is used with it. Automatically slows down if overheated. With external circuit breakers (no internal fuses). Includes molded USA cord. Fan cooled .....**264.95**

**XACX (LUXACX):** 120/240v X-Tra Fast AC power supply with only one modeling light (LV) power. Has X-Tra Fast recycle rate regardless of which power pack is used with it. Automatically slows down if overheated. With external circuit breakers (no internal fuses). Includes molded USA cord. Fan cooled .....**264.95**



### CQ2V Car Quick Charger and Power Adapter (LU013)

The CQ2V charges 1 or 2 batteries from the cigarette lighter of your vehicle. Also powers a power pack and can operate whether the vehicle is running or not. 3.5 x 3 x 7", 2.5 lbs...**99.95**

### Battery Chargers

These chargers recharge all of the Lumedyne batteries. You can recharge batteries at any charge level. Current batteries all have an automatic shut off and full indicator built inside.



#### CT1U Trickle Charger (LU014)

Lumedyne's most basic trickle charger, the CT1U is a “wall wart” transformer that has a 5' cord ending in a molded charge plug. Trickle charges all batteries except the BXLG X-Large Battery .....**18.72**

#### CT4Z 4-Station Trickle Charger (LUTC4S)

Charges up to four batteries simultaneously at trickle charge rate. Indicators show if a battery is drawing the correct current. Only takes up one AC outlet. Not for use with BXLG X-Large Battery. 120/240v switchable. With external circuit breakers (no internal fuses) .....**114.95**

#### CQ1U Fast Charger (LU016)

About as small as the CT1U but twice as fast. Wall mount transformer with 5' cord and charge plug. Fits all sizes .....**27.95**

#### CQ2U Fast/Trickle Charger (LU017)

Can charge two batteries a time. One at trickle rate, one at quick rate or both at trickle rate. Indicator shows whether the trickle or quick rate is being used. Fits all battery sizes .....**59.95**

#### CQ2W Fast/Trickle Charger (LU017W)

Same as above, except that it is 120/240v switchable .....**CALL**

#### CQ2Z Quick Trickle Charger (LUCQ2Z)

Same as CQ2W except with external circuit breakers (no internal fuses).....**104.95**

#### CU1U Ultra

##### Automatic Charger (LU018)

The CU1U is an automatic charger that senses the voltage in the battery, tops off the battery each day. Keeps battery charged and ready to go. Charging and fully-charged indicators .....**99.95**

#### CU1Z Ultra

##### Automatic Charger (LUCU1Z)

Same as above except it works on 120v or 240v and has external circuit breakers (no internal fuses) .....**134.50**

#### Battery Adapter and Tester (LU033)

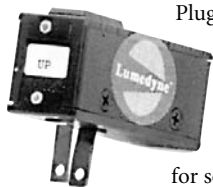
The Battery Adapter and Tester adapts the CU1U to accept up to 4 batteries. Batteries can be of different sizes and charge levels. Indicator shows healthy batteries. Charge rate is slower with each battery but is still automatic .....**83.95**

# LUMEDYNE

## SYNC CORDS & ACCESSORIES

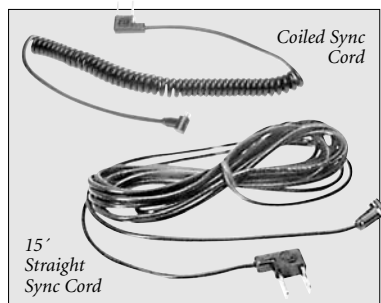
### Super Sensitive Camera Sync Filter (LU088)

Plugs into a flash at the household (H type) sync jack and limits the voltage presented to the camera to 6.5v. This is very important for some digital cameras as well as film cameras.....**58.50**



### Sync Cords

Industry-standard sync cords for Lumedyne Flash Heads have an "H" style "household" plug connection at one end and a standard PC connection at the camera end. These heavy duty connectors assure that a proper and constant connection is maintained.



#### Coiled Sync Cord (LU030)

This heavy duty sync cable stretches from 2' to 5' .....**28.00**

#### 15' Straight Sync Cord (LUASC3)

A heavy duty sync cable with a 15' reach for setup versatility .....**37.50**

### Soft Diffuser Globe (LUADG4G)

Diffuses light over the widest possible area (over 360° like a bare bulb, but directs more light forward with gradually less reaching the foreground when used with a reflector, or may be used over a bare bulb for even diffusion. The light output will be reduced by two full f-stops .....**19.95**

#### Accommodation Kit



Extra-Wide Reflector

Op/Tech Deluxe Strap

#### Standard Reflector (LU091)

The standard reflector included with every head. Two operating positions, NORM and WIDE, allows you control over angle of dispersion .....**19.95**

#### Extra-Wide Reflector (LU091W)

Fits all flash heads for wide angle applications. Reflector is slightly shallower than the standard reflector, allowing the flash tube to disperse its output in a wider pattern ....**23.95**

#### Op/Tech Deluxe Strap (LUASDL)

A padded nylon, elasticized, contoured adjustable strap to ease carrying of all Lumedyne power packs .....**29.50**

#### Accommodation Kit (LU075)

A handy collection of small items often lost or broken line switch and jack covers, screws, rubber feet, jewels, etc .....**18.95**

### Anti-Twist Plates

#### Anti-Twist Plate (LUANTR)

For the round-style Lumedyne head when used on a flash bracket.....**8.95**

#### Anti-Twist Plate (LUANTS)

For the square-style Lumedyne head when used on a flash bracket.....**8.95**

### Extension Cords

Extension cord extends the head's cable by up to 20'. They have a very low line loss of a 1/4 f-stop at 20', and less with shorter cables.



#### Straight 20'

Extension Cord (LU032) .....**58.50**

#### Straight 5'

Extension Cord (LU034) .....**47.50**

#### Coiled 3-to-8'

Extension Cord (LU035) .....**57.95**

#### Straight 10'

Extension Cord (LU036) .....**49.95**

## Mounting Accessories

### Head and Umbrella Adapter to Light Stand (LU047P)

This is a versatile bracket that will fit on almost any light stand. It includes two removable, reversible studs to adapt to light stands with top studs smaller than the standard 5/8". It also includes a shoe mount, which will accept virtually any shoe-mount flash unit .....**38.50**

### Swivel Tilt and Bounce with Adjustable Stop (LU045)

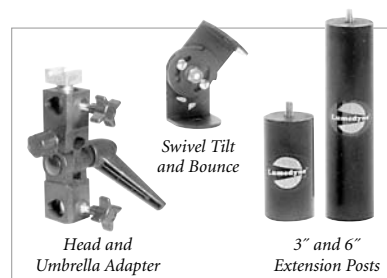
Adjustable stops allow 200° of swing between user-definable points. Includes 1/4-20" hardware .....**27.95**

#### 3" Extension Post (LU041):

Raises the height of any light head with a 1/4-20" threaded receptor an additional 3" .....**17.95**

#### 6" Extension Post (LUATP6):

Raises the height any light head with a 1/4-20" threaded receptor an additional 6" .....**17.95**



# LUMEDYNE

## CYCLERS

### High Voltage Power for High Performance Flash Recycling

Cyclers generate the high voltage necessary to recycle most shoe or handle mount flashes very quickly and produce hundreds of full power flashes per charge. Computerized flashes still use the internal AA batteries to power the internal computer, LCD screen and power reflector but the Cyclers does most of the hard work (recycling the flash) so the AA's will last much longer. The cyclers feature built-in batteries, 7-LED battery gauge (except TinyCycler which has a low battery warning) and ABS plastic cases that protect the electronics from the real world bump and grinds. Two recycling rates are available, fast or X-tra fast. There are several cables available to fit many popular brands of flashes that have a high voltage connection. The Cyclers are compatible with Lumedyne and Paramount HV cables or Quantum high voltage cables for their Turbo/(Z). The Cyclers charge with the same chargers that fit the rest of the Lumedyne System (excluding the CU1U Ultra Charger that only fits modular batteries).



FLASHES & ACCESSORIES

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#### VHTF HV TinyCycler (LUVHTF)

World's smallest and lightest high-voltage cycler with built-in battery. 1.3-sec. recycling for 350 guaranteed full power shoe mount flashes per charge. Cycling / Short / Low Battery / Full Charge protection indication. Measures 1.0 x 2.8 x 6" and weighs 1.2 lbs. If size is an important issue for you, you'll love the TinyCycler.....**264.95**

#### VHCF HV MicroCycler (LUVHCF)

Very small high voltage cycler pack with built-in battery and 7-light battery gauge. Same features and power as the VHTF. 1.3-sec. recycling for 350 guaranteed full power shoe mount flashes per charge. Slightly larger than the TinyCycler, the VHCF measures 1.3 x 2.8 x 6" and weighs 1.4 lbs.....**292.50**

#### VHUF UltraCycler (LUVHUF)

Slightly shorter but about the same size as the MiniCyclers but with more flashes. Larger built-in battery. 1.3-sec. recycling for 440 guaranteed full power shoe mount flashes per charge. Recessed HV jack and 7-light battery gauge. Measures 2.3 x 2.8 x 6", weighs 1.7 lbs .....**292.50**

#### VHUX UltraMegaCycler (LUVHUX)

Widely acclaimed in paparazzi and press photo circles, the VHUX UltraMegaCycler recycles twice as fast as any other brand of high voltage cycler pack. A larger built-in battery provides 0.7-sec recycling for 400 guaranteed full power shoe mount flashes per charge. Recessed HV jack and 7-light battery gauge. Measures 2.0 x 2.8 x 6", weighs 1.9 lbs.....**346.95**

### FLASH & HV CABLE COMPATIBILITY AND RECYCLE TIME CHART

	High Voltage Cycler Cable			Cyclers			Recycle Time (sec.)
	Lumedyne		Quantum	Flashes Per Charge			
	B&H #	Price	Turbo Cable #	Tiny/Micro	Mini/Super	Ultra	
Canon 430EZ, 540EZ, 480G, 550EX, 480EZ, MR-14EX	LUVCCZ	\$32.95	CZ	350	400	440	1.3
Metz 45CT1, 45CT5	LUVCM1	\$32.95	CM1	260	300	330	2
Metz 45CT3, 45CT4, 45CL1, 45CL3, 45CL4, 45CL5	LUVCM4	\$32.95	CM4	260	300	330	2
Metz 50MZ-5, 70MZ-4/5	LUVCM5	\$43.95	CM5	175	200	220	2.5
Minolta 5200i, 5400HS, 5400xi, 5600HS	LUVCL5	\$32.95	CL5	350	400	440	1.3
Nikon SB24, SB25, SB26, SB27, SB28	LUVCNN	\$32.95	CK	350	400	440	1.3
Nikon SB28 Euro, SB28DX, SB80, SB800	LUVCNE	\$32.95	CKE	350	400	440	1.3
Quantum Q Flash-T (2)	Built-in HV Cable		130	150	165	4	
Sunpak 30DX, 30SR, 36DX, 36FD, 383, 411S, 420, 421, 422D 433D/AF, 444D, AP52, 4000AF, 5000AF, DX8R, DX12R	LUVCS4	\$32.95	CS4	350	400	440	1.3
Sunpak 411, 455, 3600, 4205G, Auto Zoom 5000	LUVCS5	\$32.95	CS5	350	400	440	1.3
Sunpak 120J Auto Pro / TTL	LUVCS4	\$32.95	CS4	175	200	220	2.5
Sunpak 511, 522, 544, 555, Zoom 3600	LUVCS5	\$32.95	CS5	260	300	330	2
Sunpak 611	LUVCS5	\$32.95	CS5	175	200	220	2.5
Sunpak 622, 622-PRO with CV1	LUVCS5	\$32.95	CS6	175	200	220	2.5
Vivitar 283, 285HV, 2500, 3700, 4600, 5200, 5600, 600's	LUVCCV	\$32.95	CV	350	400	440	1.3

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# QUANTUM

## BATTERIES

### Batteries for Portable Flash

Portable flash photography changed when the Quantum Battery was invented. Photographers no longer had to depend on small, unpredictable AA batteries. The battery pack clips to your belt or can be worn over the shoulder using any common camera strap. The QB1c pack is also designed to mount under your camera. An LED "fuel gauge" lets you see the remaining battery capacity—so no surprises, no missed shots. Power comes from reliable cells which exhibit no "memory" effects, plus they supply dependable power in extreme temperature climates. Simply charge your battery with the supplied charger to full capacity for hours of reliable power. Typically a Quantum Battery will supply about 5 times the power of alkaline AA batteries.



- ◆ Faster recycling — 50% faster, and consistently fast even as battery charge is depleted
- ◆ 250+ full power manual shots, and 1000+ automatic shots per charge
- ◆ Battery power comes from "no memory" sealed lead cells
- ◆ The power monitor "fuel gauge" shows remaining power in the pack—so no surprises or sudden loss of power
- ◆ Enormous cost savings. One Quantum Battery 1+ typically yields the power of \$2000 worth of AA alkaline cells
- ◆ Modules to fit hundreds of flash models.



### QB1 Compact (QB1c)

Small and light, the QB1 Compact is designed for power hungry flashes. Slip the QB1 Compact under the camera and get 12oz. of concentrated power. Enough for 150-600 auto/TTL flashes (varies with f/setting)—, or four to six times the power of typical rechargeable batteries. And when powering your flash, recycling speed is 3 times as fast as alkalines and a third faster than nicads. Outputs for both short (Bantam "X" series) and long (QB1 "M" series) cords for wearing the QB1 Compact on a belt. Includes a belt clip.

- ◆ Attaches to a tripod socket on the bottom of your camera
- ◆ Energy saver mode dims lights for longer shoots
- ◆ "No-memory" nickel metal hydride cells charge reliably in 3-4 hours
- ◆ "Fuel Gauge" LED displays power remaining and charging level, letting you know when recharging is required. Never again miss a shot waiting for your flash to recycle, or looking for another set of "AA" batteries.
- ◆ QBO Offset Multi-Bracket mounts a camera and QB1 Compact together onto a tripod.
- ◆ Outputs for both short (Bantam "X" series) and long (QB1 "M" series) cords for wearing the QB1 Compact on a belt. Includes a belt clip.

### MODULES & ACCESSORIES FOR THE QB1C

QUXA2 Locking Module .....	33.95	QUXi5 Module Type i5 .....	36.95
QUXB2 Locking Module .....	33.95	QUXCX Power Cord f/Contax 645 ...	27.50
QUXB5 Module Type B5 .....	34.50	QUXKZ3 Locking Module .....	49.95
QUXK6 Module for Nikon SB-600 ...	39.95	QUXVI Module Type VI .....	43.50
QUXE Module Type E .....	34.95	QUXZ2 Locking Module .....	44.95
QUXE3 Module f/Metz 32Z series ....	44.95	QUQBO Offset Multi-Bracket .....	22.50
QUXE4 Module for Metz 40MZ2 ....	44.95	QUQBC Mounting Clamp .....	33.95
QUXF2 Locking Module .....	33.95	QUQB26 115v AC Charger (repl.) ....	34.95
QUXF3 Module Type F .....	33.95	QUQB35 Car Charger .....	89.95
QUXG2 Locking Module .....	33.95		

# QUANTUM

## QB1+/QB2/TURBO

### QB1+

*Delivering 30% more power than the QB1c, the popular QB1+pack can be used with the largest number of flash models. Dual outputs permit powering two flashes. A beltpack battery, the QB1+ features an automatic shut off once the module connection is removed (to prevent accidental discharge) and an electronic circuit breaker. It charges in 3-4 hours and indicates when full charge is achieved.*



- ◆ 50% faster recycling, and consistently fast even as battery charge is depleted.
- ◆ “Fuel Gauge” LED displays power remaining and charging level, letting you know when recharging is required. Never again miss a shot waiting for your flash to recycle, or looking for another set of “AA” batteries.
- ◆ “No-memory” lead cells charge reliably in 3-4 hours with standard charger. Charge light goes out when charging is complete.
- ◆ Provides several hundred full power flashes (250+ full power manual shots, and 1000+ automatic shots per charge) and fast, consistent recycling for most 6volt flash units.
- ◆ Electronic circuit breaker prevents damage to flash or battery. Automatically shuts itself off, and cannot be turned on without a module plugged in, preventing accidental drain of the cells.

- ◆ Twin output jacks allows two flashes to be powered together.

### MODULES AND ACCESSORIES FOR THE QB1+

QUMA2 Locking Module.....	48.95	QUMH Module Type H.....	49.95
QUMB2 Locking Module.....	43.50	QUMi5 Module Type i5.....	54.95
QUMB5 Module Type B5.....	48.50	QUMKZ3 Locking Module.....	54.95
QUMC Module Type C.....	72.95	QUML Module Type L.....	48.50
QUMCX Power Cord f/Contax 645 ...	28.95	QUMVI Module Type VI.....	52.95
QUME Module Type E.....	45.95	QUMZ2 Locking Module.....	49.95
QUME3 Module for Metz 32Z series.	49.95	QUQB22 10' ext. for QB1+ modules...	34.95
QUME4 Module for Metz 40MZ2.....	49.95	QUQBC Mounting Clamp.....	33.95
QUMF2 Locking Module.....	49.95	QUQB26 115v AC Charger (repl. ).....	34.95
QUMF3 Module Type F.....	48.95	QUQB35 Car Charger.....	89.95
QUMG2 Locking Module.....	49.95		



### Quantum Battery 2

*This 9v pack powers handle mount flashes requiring other than 6v power. Dual outputs can power two flashes. Provides even more power than the QB1+ and can also power some digital cameras.*

- ◆ 50% faster recycling, and consistently fast even as battery charge is depleted.
- ◆ 250+ full power manual shots, and 1000+ automatic shots per charge.
- ◆ Twin output jacks allows two flashes to be powered together
- ◆ LED displays include power monitor “fuel gauge”, on/off, short circuit, and recharging indicators. Easily monitor your units condition.

### MODULES & ACCESSORIES FOR THE QB2

QUMDC3 Power cable f/digital cameras ...	28.95	QUMP Module for Pentax AF400T.....	59.95	QUQBC Mounting Clamp.....	33.95
QUMDC5 Power cable for Kodak digital....	28.95	QUMS Module for Sunpak (see chart).....	54.95	QUQB27 115v AC Charger (repl.).....	32.50
QUMM Module for Metz 45CT/45CL.....	49.95	QUMY Power Cable for		QUQB28 115v AC Charger (repl.).....	32.50
QUMN Module for Nissin (see chart).....	63.50	Mamiya RZ-67 and 645 Pro Cameras.....	36.95	QUQB37 115v AC Fast Charger.....	107.95
QUMN2 Module for Nissin (see chart).....	63.50	QUQB23 10' ext. for QB2 modules.....	38.50	QUQB36 Car Charger.....	74.95

# QUANTUM

## TURBO COMPACT

### Power your Camera and Flash

Today's digital cameras and flash demand more power—and different voltages. The Turbo Compact is the portable power solution. A heavy-duty portable power source for shoe and handle mount flashes, or digital cameras, the Turbo Compact is the compact version of the top-of-the-line Turbo 2x2. This pack only has one battery cell, but still has a powerfull capacity of 500 flashes and an extremely fast recycling time of 1.5 seconds (full power, shoe mount flash).

With dual outputs (one Turbo and one Bantam-type), the Turbo Compact is ideal for powering a digital camera and flash together.

It provides programmable low voltage for your digital camera and high voltage for your flash at the same time. Now your flash keeps up with your camera, and camera with flash.



### FEATURES

- ◆ The proper voltage for each camera model is automatically adjusted. To power a different camera or flash, change only the cable. Turbo Compact's energy comes from Nickel Metal Hydride (NiMH) technology, providing concentrated power, quick flash recycling, no memory, and long life.
- ◆ The Turbo Compact displays remaining capacity on it's "fuel gauge" so that you won't be caught unaware.
- ◆ Power monitor "fuel gauge" tells you exactly how much power remains, and flashes a red warning light when power gets low. It also displays charging progress (which takes just 1.5 hours).
- ◆ Quantum's smallest Turbo yet, the Turbo Compact weighs just 16 ounces yet packs almost the same power of a standard Turbo. A self-contained thread screws into the socket on the bottom of a camera, and Turbo Compact itself accepts tripod threads for mounting.
- ◆ The Turbo Compact makes a perfectly balanced platform for the Qflash T2/T4 Digital after it is screwed into the base of the Qflash. Add the FreeWire to this combination and you have a small, remote-controlled flash system with the Turbo Compact, powering both the FreeWire and Qflash. This system can be placed behind a bride and groom, in a church balcony, or anywhere else that extra punch is needed to enhance a photograph.

### CABLES & ACCESSORIES FOR THE TURBO COMPACT

YDC30 Cable for Canon D30, D60, D100 (QUYDC30).....	44.95
YDC10 Cable for Nikon D2H (QUYDC10).....	69.95
YDC100 Cable for Nikon D100 (QUYDC100).....	34.50
YDC1 Cable for Nikon D1/D1x/D1H (QUYDC1).....	34.50
YDC3 Cable for Kodak DCS-520/620x/720x/760 (QUYDC3) .....	32.50
YDC5 Cable for Kodak DCS-315/330 (QUYDC5) .....	34.50
YDC6 Cable for Canon 1D/1Ds (QUYDC6) .....	64.95
YDC8 Cable for Kodak Pro 14n (QUYDC8) .....	33.95
CCK Nikon short cable (see CK cable) (QUCCCK).....	29.95
CCKE Nikon short cable (see chart) (QUCCKE).....	34.95
CCM4 Metz short cable (see CM4 cable) (QUCCM4).....	34.95
CCM5P Metz short cable (see CM5+ cable) (QUCCM5P).....	39.95
CCS4 Sunpak short cable (see chart) (QUCCS4).....	42.50
CCS5 Sunpak short cable (see chart) (QUCCS5).....	42.50
CCV Vivitar short cable (see chart) (QUCCV) .....	38.50
CCZ Canon short cable (see chart) (QUCCZ).....	38.50
TCRUS 100-240v Charger (repl.) (QUTCRUS) .....	44.95
QT48 Dual Connector for powering two flashes (QUQT48) .....	68.95
QT49 10' extension cord for Turbo cables (QUQT49) .....	52.50
QMC Multi Clip (QUQMC) .....	9.95
ES1 Energy Saver for Vivitar 285HV, Metz 45CL-1/3/4, 45CT-3/4 (QUES1) .....	5.95
ES2 Energy Saver for Canon 430EZ, 540EZ, 550EX, Nikon SB-24/SB-26 (QUES2) .....	5.95

"CC" short cables are usually used with the Turbo Compact when mounted under a camera. Otherwise, it can also use the same flash cables as the standard Quantum Turbo.



For Any Inquiries Regarding Your Order, Call Our Customer Service:  
(800) 221-5743 • (212) 239-7765 • FAX: (800) 947-2215 • (212) 239-7549

# QUANTUM

## TURBO / TURBO 2x2

### Turbo

Get "Non-Stop Flash" when connected. Designed tough and shock resistant, the Quantum Turbo battery is the premier portable power source for shoe and handle mount flash. Turbo cables provide a neat connection to your flash's high voltage input. The Turbo has fast recycling and delivers many shots per charge. It lets you choose between ultimate speed or economy mode for maximum flash capacity. Ideal for the Qflash T2/T4D or handle mount flashes.

**Turbo (QUTB)** .....Call

#### Turbo Features

- ◆ Fast and consistent recycling. Turbo provides 1-1.5 second full power flash recycling, and even faster recycling on auto to keep up with fast motor drive sequences.
- ◆ Generate power needed for repeated flash much faster than the flash unit themselves
- ◆ Displays remaining capacity on LED "fuel gauge". Built-in smart charger with panel lights alert you when charging is complete
- ◆ Rechargeable cells are "no memory" types
- ◆ Supplies high voltage for flash output and low voltage for the flash computer circuits.



### Turbo 2x2

For power hungry flashes and digital cameras, Quantum stuffed twice the power into a smaller package. And, now you have two connections, for a camera and flash, two cameras, or two flashes! The Turbo 2x2 is a lightweight (23 oz.) portable power pack. It has more than enough capacity for

shooting throughout the day on one charge. Turbo 2x2 powers a digital camera from one cable, and a flash through another. The proper voltage for each camera model is automatically adjusted. To power a different camera or flash, change only the cable. Use the Turbo 2x2 when taking digital pictures and still have enough power left for downloading these images into your computer.

**Turbo 2x2 (QUT2X2B)** .....Call

#### Turbo 2x2 Features

- ◆ Smaller and 33% lighter than the Turbo, the Turbo 2x2 has dual outputs to power your digital camera and flash together.
- ◆ Supplied with a semi-soft, slim, comfortable case. Wear it under a tuxedo, over your shoulder, or drop it in your camera bag.
- ◆ Provides programmable low voltage for your digicam, and high voltage for your flash at the same time. Now the flash keeps up with the camera, and camera with flash.
- ◆ To assure reliability, the Turbo 2x2 uses the NiMH (Nickel Metal Hydride) battery technology, visible "gas gauge", and Quantum's proprietary, built-in charging circuitry.
- ◆ Charges in 3 hours with supplied charger. Optional fast charger does it in 1.5 hours. Indicator shows charging progress.
- ◆ "Fuel gauge" tells you exactly how much power remains

### CABLES & ACCESSORIES FOR TURBO & TURBO 2X2 BATTERIES (see next page for flash selection chart)

CD30 Cable (QUCD30) .....	56.50
CD100 Cable (QUCD100) .....	52.95
CD1 Cable (QUCD1) .....	57.50
CD3 Cable (QUCD3) .....	33.50
CD5 Cable (QUCD5) .....	31.95
CK Cable (QUCK) .....	42.50
CKE Cable (QUCKE) .....	38.95
CL3 Cable (QUCL3) .....	42.50
CL4 Cable (QUCL4) .....	38.50
CL5 Cable (QUCL5) .....	42.50
CM1 Cable (QUCM1) .....	42.50
CM4 Cable (QUCM4) .....	42.50

CM5+ Cable (QUCM5P) .....	47.95
CN3 Cable (QUCN3) .....	42.50
CO3 Cable (QUCO3) .....	42.50
CS4 Cable (QUCS4) .....	42.50
CS5 Cable (QUCS5) .....	42.50
CS6 Cable (QUCS6) .....	64.95
CV Cable (QUCV) .....	42.50
CZ Cable (QUCZ) .....	42.50
QT46 Car Charger (QUQT46) .....	89.95
QT47 Fast Charger (QUQT47) .....	113.95
QT48 Dual Connector (QUQT48)	
For powering two flashes.....	68.95

QT49 10' Extension Cord (QUQT49)	
For Turbo cables .....	52.50
QMC Multi Clip (QUQMC) .....	9.95
ES1 Energy Saver (QUES1) .....	5.95
ES2 Energy Saver (QUES2) .....	5.95

#### Dedicated 2x2 Cables

To connect Turbo 2x2 to digital cameras and other electronic devices.

See the B&H website for details.

SD2, SD4 .....	31.95
SD6, SD8, SD10 .....	33.95
SD12, SD14, SD16 .....	44.95

ORDER & INFO. (212) 502-6340 • FAX: (212) 239-7770 (800) 947-7008  
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# QUANTUM

## FLASH CABLES

Flash	Batteries							
	Bantam	QB1C	QB1+	QB2	Turbo Z	Turbo C	Turbo	Turbo 2x2
Canon 155A, 199A	XA2	XA2/MA2	MA2					
Canon 299T	XB2	XB2/MB2	MB2					
Canon 300TL, ML-3	XG2	XG2/MG2	MG2					
Canon 300EZ	XF2	XF2/MF2	MF2					
Canon 380EX, 420EX	XF3	XF3/MF3	MF3					
Canon 420EZ	XZ2	XZ2/MZ2	MZ2					
Canon 430EZ	XZ2	XZ2/MZ2	MZ2		CZ	CCZ	CZ	CZ
Canon 480G					CZ	CCZ	CZ	CZ
Canon 540EZ, 550EX	XKZ3	XKZ3/MKZ3	MKZ3		CZ	CCZ	CZ	CZ
Contax TLA-30	XA2							
Contax TLA-280	XA2	XA2/MA2	MA2					
Contax TLA-360	XKZ3	XKZ3/MKZ3	MKZ3		CKE		CKE	CKE
Cullman MC-25/MC30/CX35/CX40	XG2	XG2/MG2	MG2					
Fujica 300X	XF2							
Hasselblad 4504				MM	CM4	CCM4	CM4	CM4
Hasselblad D-Flash 40					CS4	CCS4	CS4	CS4
Metz 25CT-3, 28CT-3, 38CT-3	XA2	XA2/MA2	MA2					
Metz 32CT- Series (except CT-7)	XE	XE/ME	ME					
Metz 32Z- Series	XE3	XE3/ME3	ME3					
Metz 36CT- Series	XE	XE/ME	ME					
Metz 40MZ1i, 40MZ2, 40MZ3	XE4	XE4/ME4	ME4					
Metz 45CT-1/CT-5				MM	CM1		CM1	CM1
Metz 45CL-1/3/4, 45CT-3/4				MM	CM4	CCM4	CM4	CM4
Metz 54MZ-3/54MZ-4	XKZ3	XKZ3/MKZ3	MKZ3		CM5+	CCM5+	CM5+	CM5+
Metz 50MZ-5, 70MZ-4/70MZ-5					CM5+	CCM5+	CM5+	CM5+
Minolta 280PX	XA2							
Minolta 320PX, 80PX	XA2	XA2/MA2	MA2					
Minolta 360PX	XA2	XA2/MA2	MA2		CL3		CL3	CL3
Minolta 2800AF, 1200AF Macro	XE	XE/ME	ME					
Minolta 4000AF	XB2	XB2/MB2	MB2		CL4		CL4	CL4
Minolta 3200i	Xi	Xi/Mi	Mi					
Minolta 3500Xi	Xi5	Xi5/Mi5	Mi5					
Minolta 5400HS, 5400Xi, 5200i	Xi5	Xi5/Mi5	Mi5		CL5		CL5	CL5
Minolta 3600HS (D)	XKZ3	XKZ3/MKZ3	MKZ3					
Minolta 5600HS (D)	XKZ3	XKZ3/MKZ3	MKZ3		CL5		CL5	CL5
Nikon SB-23, SB-12, SB-16	XG2	XG2/MG2	MG2					
Nikon SB-15, SB-17	XF2	XF2/MF2	MF2					
Nikon SB-20, SB-22	XE	XE/ME	ME					
Nikon SB-24, SB-25	XKZ3	ZKZ3/MKZ3	MKZ3		CK	CCK	CK	CK
Nikon SB-21	XF2							

# QUANTUM

## FLASH CABLES

Flash	Batteries							
	Bantam	QB1C	QB1+	QB2	Turbo Z	Turbo C	Turbo	Turbo 2x2
Nikon SB-26, SB-27, SB-28	XKZ3	XKZ3/MKZ3	MKZ3		CK	CCK	CK	CK
Nikon SB-28-EURO, 28D, 28DX, 80DX	XKZ3	XKZ3/MKZ3	MKZ3		CKE	CCKE	CKE	CKE
Nikon SB-29	XKZ3	XKZ3/MKZ3	MKZ3					
Nikon SB-600	XK6							
Nikon SB-800	XKZ3	XKZ3/MKZ3	MKZ3		CKE	CCKE	CKE	CKE
Nissin 340T, 360WX, 360TW	XG2	XG2/MG2	MG2					
Nissin 4000GW, 4800GT, 5000GT				MN				
Nissin 4200, 4500GTE, 6000AF/GT, 5000GT				MN2				
Olympus FL-40	XA2	XA2/MA2	MA2					
Olympus FL-50	XKZ3	XKZ3/MKZ3	MKZ3					
Olympus T32	XE	XE/ME	ME		CO3		CO3	CO3
Olympus T45					CO3		CO3	CO3
Pentax AF200T, AF280T	XA2	XA2/MA2	MA2					
Pentax AF400T				MP				
Pentax AF500FTZ					CN3		CN3	CN3
Sigma EF430	XG2	XG2/MG2	MG2					
Sigma EF500ST, EF500 Super	XVI	XVI/MVI	MVI					
Sunpak 411S, 383, 422D, 433D/AF, 444D	XG2	XG2/MG2	MG2		CS4	CCS4	CS4	CS4
Sunpak 30SR, 30DX, 36FD, 36DX	XG2	XG2/MG2	MG2		CS4	CCS4	CS4	CS4
Sunpak 331, 333, 333D, 344D, 355AF	XG2	XG2/MG2	MG2					
Sunpak 26DX/FD/SR, 260, 266D	XG2	XG2/MG2	MG2					
Sunpak Auto DX8R	XA2	XA2/MA2	MA2		CS4	CCS4	CS4	CS4
Sunpak Auto DX12R	XG2	XG2/MG2	MG2		CS4	CCS4	CS4	CS4
Sunpak 411/511					CS5	CCS5	CS5	CS5
Sunpak 522, 544, 555, 455, Autozoom 3600				MS	CS5	CCS5	CS5	CS5
Sunpak AP52, 4000AF					CS4	CCS4	CS4	CS4
Sunpak PZ5000AF	XKZ3	XKZ3/MKZ3	MKZ3		CS4	CCS4	CS4	CS4
Sunpak 611, Autozoom 5000		MC			CS5	CCS5	CS5	CS5
Sunpak 622, 622 PRO			MH		CS6		CS6	CS6
Sunpak 120J Auto Pro/TTL			MA2		CS4	CCS4	CS4	CS4
Sunpak MZ440AF-CA, MX	XG2	XG2/MG2	MG2					
Vivitar 283, 285HV, 3700, 4600	XA2	XA2/MA2	MA2		CV	CCV	CV	CV
Vivitar 285	XA2	XA2/MA2	MA2					
Vivitar 4900VT				MN2				
Vivitar 5200, 5600	XG2	XG2/MG2	MG2		CV	CCV	CV	CV
Vivitar 3900					CN3		CN3	CN3
Vivitar 628AFM, 636AF	XF2	XF2/MF2	MF2					
Vivitar 5250, 728Zoom, 836AF	XG2	XG2/MG2	MG2					
Vivitar 730 AFC	XB5	XB5/MB5	MB5					
Vivitar 736 AFM, 840 AFC	XVI	XVI/MVI	MVI					
Yashica CS250AF	XG2	XG2/G2	MG2					

# QUANTUM

## QFLASH T4D & X4D DIGITAL

### **Studio Quality, High Power Automatic/TTL Portable Flashes**

The Qflash T4D is powered by a Quantum Turbo or Turbo 2x2 to produce powerful Guide Number 160 auto-flash power, while the Qflash X4D is powered by Quantum's Qpaq-X, as well as Lumedyne or Norman power packs. At 400 watt-seconds Qflash X4D produces GN 220 flash power. Both Qflashes have a stroboscopic modeling light, and both use parabolic reflectors for softer, cleaner light. The reflectors are removable for bare-bulb lighting. The flash head bounces and swivels and can be locked into place with the new locking function. Flash control is either automatic, TTL (with optional adapters), manual, or stroboscopic, to be precisely what you need. Qflashes can be ganged together to produce flexible lighting setups with thousands of watt-seconds of auto or manual flash power. Qflashes mount on a camera bracket, tripod, or lightstand and weigh no more than a conventional flash.



### **FEATURES**

- ◆ Automatic exposure control covers a nine stop range, adjustable every 1/3 stop, for a total of 25 automatic settings.
- ◆ Manual power can be adjusted from full to 1/64 power in 1/3 stop increments. Flash power can be precisely what you need.
- ◆ Store up to eight of your favorite settings (for example, auto @ f/8, f/16 manual @ 1/4 power) and switch between them at a push of a button.
- ◆ To avoid harshness that can be produced by rectangular reflectors, the Qflashes use a parabolic reflector. Coverage includes 55° (normal position), 70° (wide angle) and 90° (with supplied diffuser). Or remove the reflector for 360° bare-bulb coverage.
- ◆ With optional adapters for TTL cameras, you can control the Qflash exposure through-the-lens. TTL operation indicates visually as well as audibly the proper and under/over exposure.
- ◆ QTTL adapters link the most popular digital and film cameras to Qflash Digital. Allows you to select rear curtain sync and/or auto focus assist light.
- ◆ Stroboscopic mode can be adjusted for flash power, and number and frequency of bursts. Select a strobe rate of 1 to 50 flashes per second. You can also select the power level and the total number of flashes from 1 to 20.
- ◆ LCD shows minimum and maximum flash distance range for each auto setting, mode, F#, GN #, flash ready, OK and under/over exposure checks. Readouts can be converted between feet or meters. Also provides audible indication of correct exposure.
- ◆ Automatic Fill Mode allows setting fill flash ratios (-3 to +2 stops in 1/3 increments) when used with one of the QTTL adapters. Fill-flash ratios can be controlled even for cameras that don't have fill-flash capabilities
- ◆ One Qflash can control the exposure of an unlimited number of Qflash "slaves" connected to it for increased lighting power, or lighting difficult subjects with multiple flash heads. Slaves are controlled via a TTL adapter or their own auto setting. Each can be set independently—to its own automatic, manual or stroboscopic exposure for precise lighting ratios and light control.
- ◆ If you are using Qflash on-camera and you want to disable it for a few shots you can use the "quick turn off" feature. Press the MODE button twice and "OFF" appears in the display. Press any button (except the test flash) to return to normal operation.
- ◆ Optional remote sensor lets you put Qflash anywhere you want (up to 100' away with cable extensions) and read the light at the camera position.

### **Automatic Sensor Limit**

This option on the Qflash T4D / X4D limits the distance the Qflash sensor "sees" when in Auto mode. Without Auto Sensor Limit, if the subject has no background (in a open field outside), or the background is far away (a large catering hall), the flash sensor tries to balance the subject and background light. The subject is bright, and the background is dark, and the result is an over exposed subject. By limiting sensor distance, the sensor will no longer try to balance the light from a far background and will focus only on the subjects that are within the sensor limit. The result, great automatic exposures in all situations.

# QUANTUM

## QFLASH T4D & X4D DIGITAL



### Qflash T4D (QUQT4D)

Includes 6' coiled power cord, reflector, diffuser, removable flashtube, earphone and 1/4-20 mounting thumbscrew. Requires Turbo, Turbo 2x2 for power .....CALL

### Qflash X4D (QUQX4D)

Includes reflector, modeling lamp, removable flashtube, diffuser, earphone and 1/4-20 mounting thumbscrew. Powered by QPAQ-X, Lumedyne or Norman 200 and 400 watt-second power packs. Norman and Lumedyne require a QF40, 41, or 42 power cable .....CALL

### Qflash T4D Accessories

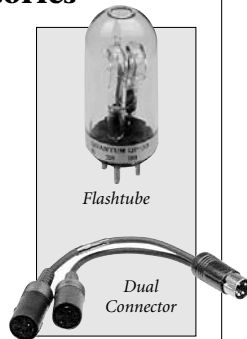
**Flashtube (QUQF30):** Replacement .....43.50

**Flashtube (QUQF30UV)**  
Optional UV-coated flashtube .....52.95

**200w/S Remote Flash Head (QUQF36T)**  
With 8' extension cord.....122.50

**Dual Connector (QUQT48)**  
For powering two Qflashes with a Turbo Battery .....68.95

**10' Extension Cord (QUQT49)**  
For Turbo cables.....52.50



### Qflash X4D Accessories

**Flashtube (QUQF32):** Replacement .....57.95

**Flashtube (QUQF32UV)**  
Optional UV-Coated Flashtube.....67.95

**35w Model Lamp for Qflash (QUQF33)** ...17.95

**400w/S Remote Flash Head (QUQ36X)**  
With 8' extension cord.....129.95

**Adapter for QFX Flash Head (QUQF40)**  
Adapts QFX to Norman 200B/C .....59.50

**Adapter for QFX Flash Head (QUQF41)**  
Adapts QFX to Norman 400B .....59.50

**Adapter for QFX Flash Head (QUQF42)**  
Adapts QFX to Lumedyne packs.....59.50

**Straight 16.5' Extension Cord (QUQF43)**...59.50



### FULLY DEDICATED QTTL ADAPTERS FOR T4D/X4D QFLASH

**D12 Adapter (QUQFD12I)**  
For Nikon N90s, F100, F5, D1 series, D100 and Fuji S2 ...109.95

**D24 Adapter (QUQFD24)**  
For Contax 645 .....109.95

**D13N Adapter (QUQFD13N)**  
For Canon EOS-1v, EOS-3, 10D, 20D, 1D II, 1Ds, Rebel .....109.95

**D25 Adapter (QUQFD25)**  
For Mamiya 645AF/AFD..109.95

### Accessories for all Qflashes

**Spare Reflector (QUQF60B)** .....28.95

**Snoot (QUQF61B)**  
For pinpoint lighting. Provides a hair light or accent for subjects .....23.95

**Bare Bulb Enhancer (QUQF62BS)**  
Polished satin silver reflector .....29.95

**Bare Bulb Enhancer (QUQF62BG)**  
Polished satin gold reflector .....28.95

**Telephoto Reflector (QUQF63B)**  
With QF63S Flashtube Spacer .....69.95

**Flashtube Spacer (QUQF63S)**  
For use with the Telephoto Reflector .....28.50

**Diffusing UV Filter Kit (QUQF64)**  
Replacement diffuser panel and cover ...17.95

**Clear UV Filter Kit (QUQF65)** .....17.95

**Color Gel Pack (QUQF66)** .....24.95

**Wide Angle Diffuser (QUQF67A)**  
Emits a very soft light with minimal shadows and 2 stop lower Guide Number .....32.95

**12 x 12 Softbox (QUQF68)**  
The softbox offers a bigger, softer light source for close-up portraiture. With the softbox connected, the Qflash can be mounted to a camera bracket or fastened to an umbrella bracket for placement on a light stand. The Qflash/softbox combination is suited for either TTL or manual operation. The Softbox folds up very neatly into its carrying bag for your convenience. ....59.95

**Quick Release "L" Bracket (QUQF70E)** ....87.95

**Camera/Flash Flip Bracket (QUQF70US)**  
A lightweight aluminum flash bracket..107.95

**QF72 Qflash Multi Bracket (QUQF72)**  
Includes umbrella swivel and "L" bar .....44.95

**"L" Bar For QF72 (QUQF73)** .....22.50



# QUANTUM

## QFLASH ACCESSORIES

### Control Cables for Qflashes

**QF50** (QUQF50): 20' cable for slaving two Qflashes together.....**34.95**

**QF51** (QUQF51): Male-to-female, 20' extension cable. To extend QF50, 52, 53 cables, TTL adapters, or QF21. Maximum length is 100' using 5 QF51 cables.....**34.95**

**QF52** (QUQF52): "Y" connector module needed for third Qflash connected, and each one thereafter. Required for a TTL adapter or remote sensor when used with two or more Qflashes.....**43.95**

**QF53** (QUQF53): Hot shoe sync adapter.....**43.95**

**536** (QUSCCP18RS4T): PC to household male 18" coiled sync cord .....**28.95**

**537** (QUSCCP5RS4T): PC to household male 5' coiled sync cord .....**26.50**



### Remote Flash Heads for Qflash

Now Qflash users can mount a lightweight flash head in light boxes, high up on light stands, or in other remote locations. At the same time the Qflash control panel can mount conveniently at eye level for easy access.

- ◆ Remote Qflash Heads with 8' cables plug into the flash tube socket of a Qflash. A 1/4-20 threaded socket allows for convenient mounting in a light box, umbrella bracket, or lightstand. Remote Flash Heads can be mounted to other Quantum mounting accessories such as QF72 Multi Bracket and QF73 "L" Bar.
- ◆ With the Remote Qflash Heads, photographers can shoot in all Qflash modes – automatic, TTL, manual, and strobo. All Qflash reflectors and attachments are compatible giving a new dimension to light control with Qflash's. Remote Qflash Heads are available as QF36T to fit Qflash T2/T4D, or QF36X to fit the Qflash X2/X2D.

### TTL Adapters and Remote Sensor for all Qflashes

<b>QF11</b> For Minolta X700, X500, X570, CLE, Maxxum- 5000, 7000, 9000 (QUQF11) .....	<b>64.95</b>
<b>QF12</b> For Nikon FA, FG, FE2, F100, N2000, N2020, F301, F4, F4S, F401, F401S, N4004, F5, F501, F601, F601M, N60, N6000, N6006, N70, F801, N8008, N90, N90S, Fuji FinePix S1 Pro (QUQF12) .....	<b>73.50</b>
<b>QFD13N</b> For Canon EOS-3, EOS-1N, EOS-1v (QUQFD13N) .....	<b>109.95</b>
<b>QF14</b> For Minolta XiDynax & Maxxum - 3000i, 3700i, 5000i, 700i, 7000i, 8000i, 8700i; 3Xi, 5Xi, 7, 7Xi, 9, 9Xi, SPXi, Dimage RD-3000 Digital Camera (QUQF14) .....	<b>73.50</b>
<b>QF15</b> For Contax RTS II, RTS III, MD137, MA137, 139, 159MM, 167MT, G1, G2 (QUQF15) .....	<b>65.95</b>
<b>QF16</b> For Leica R5, RE, R6, R6-2, R7 (QUQF16) .....	<b>65.95</b>
<b>QF17</b> For Pentax SFX, SFXn, SF1, SF1n, SF7, SF10, Z1, Z10, PZ1, PZ10, LX (with finder shoe) Super A, 645/645N (QUQF17) .....	<b>65.95</b>
<b>QF18</b> For Rollei SL2000f, 3001, 3003, SL66e, SL66x, SL66se, SL6006 , 6002, 6003, 6008/i, 2.8GX (QUQF18) .....	<b>137.50</b>
<b>QF19</b> For Hasselblad 500ELX, 503CW/CX/CXI, 553ELX, 555ELD, 201F, 202FA, 203FE, 205TCC/FCC (QUQF19).....	<b>157.50</b>
<b>QF20</b> For Bronica ETRsi, SQAi (QUQF20) .....	<b>175.95</b>
<b>QF21</b> Remote Sensor (shoe mount with live sync contacts) (QUQF21) .....	<b>124.50</b>
<b>QF22</b> For Mamiya 645 Pro TL (QUQF22) .....	<b>175.95</b>
<b>QF23</b> For Leica R8 (QUQF23) .....	<b>174.50</b>
<b>QF24</b> For Contax 645 (QUQF24) .....	<b>137.50</b>
<b>QF25</b> For Mamiya 645AF, 645AFD (QUQF25) .....	<b>175.95</b>

# QUANTUM

## QPAQ-X

### Modular Power Pack for Qflash X2/X2D/X4D

Leave your AC studio flash at home...the Qpaq-X flash system works for both location and candid photography. A high energy, modular power pack with 200•400•600•800 watt-seconds of portable flash power, you can connect one or two Qflash-X2 400 watt-second heads and shoot manual, automatic, TTL or Strobe mode!

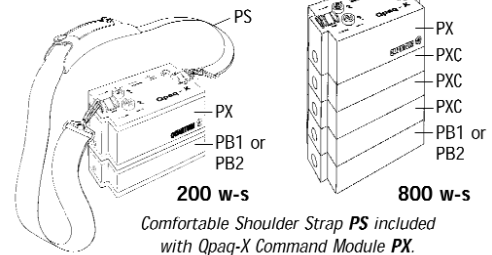
Qpaq-X has a removable battery that is user replaceable. Select from either small or large battery modules to fit the needs of your assignment. Then add or remove "PXC" modules to create a compact 200 watt-second pack or a two head, studio system up to 800 watt-seconds.



### FEATURES

- ◆ Aim two Qflash X2's into umbrellas or light boxes connected to an 800ws Qpaq-X. Use this set-up in your studio with conventional or digital cameras. Pack this same outfit and take it on location for indoor or outdoor use. After portraiture photography is finished, break down the Qpaq-X to either a 200 or 400 watt-second pack and use it for your grip and grin shots.
- ◆ The Qpaq-X/Qflash X is the only flash system that gives you 800 watt-seconds of studio quality lighting for manual, auto-matic, strobo and TTL exposure control.
- ◆ Quantum's "no memory" battery system lets you charge the Qpaq-X from any capacity level. A new charging design displays the level of charge going into the battery from 25%, 50%, 75% to 100% full capacity. Remove the battery from the charger at any time for emergency use.
- ◆ Read the battery's remaining capacity with "fuel gauge" indicators
- ◆ Ratio power to each flash head
- ◆ Work with AC mains or battery power
- ◆ Switch from "ultra"recycling (1.8-seconds) to "normal" (3.2-seconds) mode for maximum operating time
- ◆ Replaceable battery for continuous power on location
- ◆ Mount Qpaq-X to a lightstand, monopod or tripod with the PPM Pole Mount Kit
- ◆ AC Module PAC charges on-board battery while shooting using PR1, PR2 or PR3

Think building blocks when you put together a Qpaq. At the top there is always a "PX" Command Module. Build your system up to 800 watt-seconds with 200 watt-second "PXC" modules. Then snap on a high capacity PB1 or compact PB2 battery.



Comfortable Shoulder Strap PS included with Qpaq-X Command Module PX.

### QPAQ-X AND QFLASH PERFORMANCE CHART

Qpaq Speed	200 Watt-Seconds			400 Watt-Seconds		
	Recycling	Capacity PB2	PB1	Recycling	Capacity PB2	PB1
ULTRA	1.8 sec	120	275	3.6 sec	60	140
NORMAL	3.2 sec	160	350	6.4 sec	80	180

Recycling & Capacity shown for full power manual. Automatic flash can be many more shots and faster recycling, depending upon shooting conditions. All data is approximate for illustration only.

### MODULES AND ACCESSORIES FOR THE QPAQ-X

**Qpaq-X (QUPX):** Power pack for Qflash-X flash. Two outputs, capacity gauge and normal or ultra fast recycling button. Requires PB1 or PB2 and charger. Includes a shoulder strap .....**Call**  
**PXC 200ws add-on module (QUPXC)** .....**144.95**  
**PB1 High-performance battery (QUPB1)**...**216.50**  
**PB2 Compact battery (QUPB2)**.....**183.50**  
**PAC AC Module w/o charger (QUPAC)** .....**179.95**  
**PPM Pole mount for lightstand (QUPPM)**...**41.95**

**PDC Dual Charge Adapter (QUPDC):** (charges one or two batteries using PR1, PR2, PR3 or PRV) .....**169.95**  
**PCL Lumedyne adapter cable**.....**59.95**  
**PR1US 115v Charger (QUPR1US)**...**33.50**  
**PR2 Universal Charger (QUPR2)** ....**94.95**  
**PR3US Fast Charger (QUPR3)** .....**42.95**  
**PRV Car Charger (QUPRV)**.....**74.95**  
**PR4 AC Module (QUPR4)** .....**307.95**

# QUANTUM

## RADIO SLAVE 4i

FLASHES & ACCESSORIES

290

### **Radio Slave System for Remote Flashes and Motor Drives**

Quantum's Radio Slave 4i system allows you to synchronize any number of remote flashes without long sync cords, or use it to trip motor drives at great distances. It uses digitally coded radio signals that work indoors, outdoors, around corners and through walls. This superior interference-free operation permits many Radio Slaves to operate in the same area. And, unlike other slaves, it cannot be overpowered by the light of a flash.

The Radio Slave 4i system syncs up to 1/500 sec. with focal plane shutters, 1/1000 with leaf shutters.

Faster than other wireless sync, Radio Slave 4i is virtually indistinguishable from "wired" sync. And, there is no waiting between triggers as with infra-

red slaves. When mounted on a camera with a hot shoe, the Sender (transmitter) unit connects directly without a cord. The Remote (receiver) connects directly to the flash using the flash sync cord. Adapters are not needed. Confirmation of radio signal is assured by Radio Slave's status light. It also warns hours in advance of low battery. Each Radio Slave has 4 channels of operation and is available in 4 discrete frequencies, to avoid interference from other shooters.



### **FEATURES**

- ◆ Trigger any number of remote flashes without a sync cord. Or you can trip a motor drive camera, or a remote power pack at great distances.
- ◆ Instant re-triggering for multiple flash bursts. Faster than any motor drive sequence.
- ◆ Range is up 350' (110m), or 200' (60m) with the antenna down
- ◆ Hot shoe mount for the Sender allows attachment to a camera shoe, and sync cord is not required.
- ◆ Or use the supplied sync cord to connect to camera sync. Can also be mounted to brackets, dead shoes, etc. with velcro (supplied).
- ◆ The 4i Remote operates up to 400 hours on 4 AA batteries and 800 hours with 4 AA lithium batteries. Also runs on AC power with optional AC adapters.



- ◆ Syncs up to 1/500 sec. with focal plane shutters, 1/1000 with leaf shutters. Extremely fast synchronization means Radio Slave 4i is virtually indistinguishable from "wired sync".
- ◆ LED status lights on the Sender and Remote confirm proper operation and/or low batteries.
- ◆ User selected coded channels permit many Radio Slaves to operate in the same area with superior interference free reception.
- ◆ Radio Slave 4i is compatible with the older Radio Slave 2 & 4. Be sure to match the labeled frequency (either A, B, C, D) with your previous units.

### **Radio Slave 4i Components & Sets**

#### **Radio Slave 4i Remote** QURS4IR( )

Includes shoe/tripod mount adapter, pole mount adapter (available in A, B, C, D frequency, please specify) .....Call

#### **Radio Slave 4i Sender** QURS4IS( )Q

Includes sync cord, belt clip, dead shoe with screw for bracket mounting, velcro, and mounting plate (available in A, B, C, D frequency, please specify) .....Call

#### **Radio Slave 4i Set** QURS4IS( )

Includes 505Si Sender and 505Ri Remote, belt clip, sync cord, mounting kit (specify frequency only to match existing set) .....Call



**EQUIPMENT LEASING AVAILABLE**

# QUANTUM

## FreeWire

### Digital Transceiver

Create a two-way link between your camera, flash and you with Quantum's FreeWire. A digital transceiver, each FreeWire unit can be set to transmit or receive. 4 FreeWire's can serve as two send/receive systems, operating on two different channels. Or all FreeWire's can be set on the same channel so that they can operate as one system — a transmitter and three receivers.

#### FEATURES

- ◆ Antenna folds out of the way for compact storage
- ◆ Confirmation and Status light tell you your radio link is working
- ◆ Mounts to light poles, stands, and brackets (hardware included)
- ◆ Two motor drive modes:
  - Use FreeWire's two step motor drive cords to keep your camera meter and focus function continuously on (as in pressing the shutter button half way). Your camera will be ready for instant shutter release.
  - Or select motor drive "delay" to command a camera to "wake up", focus and meter, then release the shutter.
- ◆ For sports or fast fashion shoots, you can sequence up to 4 remote power packs, giving each pack time to recycle. FreeWire will activate the power packs in sequence, advancing to the next with each shot.
- ◆ Exclusive Relay Mode: Trigger your camera wirelessly. The FreeWire connected to the camera relays the shutter sync to a remote flash. Only 3 FreeWire units are required, instead of 4 as with other systems. The remote flash can synchronize in manual, auto, or TTL mode! You can choose any combination of multiple remote flashes from the hand held FreeWire transmitter.
- ◆ Five Power Options:
  - FreeWire batteries last about 120 hours, or 7200 shots @ one shot/minute.
  - No batteries needed when an FW31 cord connects FreeWire to a Qflash.
  - "Sleep" option to provide up to 500 hours of standby time from its own batteries.
  - Optional FW29 AC adapter.
  - Cords MDC2 and XDC2 used with Quantum 1, 1+, 1c, or Bantam Batteries.



#### 8 Independent Channels

FreeWire has eight unique channel codes. FreeWire units set to one channel cannot activate FreeWires set to different channels. You control the channel code to make FreeWire units work together or independently, as required. There are 32 individual Channel/Zone settings at your disposal, and 256 possible lighting combinations!

#### 4 Zone Control Plus Local

FreeWire controls one Local Zone and four wireless Zones for flash or motor drive. You can activate any one Zone, or any combination of Zones 1, 2, 3, 4 and Local. Switch your lighting instantly, remotely. Select and trigger flashes, cameras, or combinations of them, from your remote position.

#### Wireless TTL

A FreeWire connected to one of Quantum's TTL adapters transmits TTL information to any number of remote FreeWire /Qflash combinations. A "local" Qflash will synchronize also.

#### Wireless Auto

Without a TTL adapter, a local Qflash & FreeWire can control exposures of any number of remote Qflash/FreeWire combinations.

#### Convenient Connections

You can hot shoe sync with FreeWire's optional Uni-Mod module, use twin blade sync cords, or numerous other cords. FreeWires use Quantum's motor drive cords for remote wireless shutter.

#### FREEWIRE TRANSCIVER & MODULE

**FreeWire Digital Transceiver (QUFW10):**  
Becomes Transmitter or Receiver. Includes sync cord, mounting kit, batteries and instruction manual .....Call

**Uni-Mod Universal Connector Module (QUFW11):**  
With hot shoe and female household connector. Use with standard household to PC sync cord.....49.95



# QUANTUM

## FREEWIRE & RADIO SLAVE ACCESSORIES

### *FreeWire and Radio Slave Sync Cords*

Model	Description	Compatibility				Price
		405	505	505i	FW10	
434	1.5' replacement sync-in cord (QUSC1RS2T)	Yes	—	—	Yes	27.95
435	4' coiled sync-in cord (QUSC4RS2T)	Yes	—	—	Yes	27.95
470	Special Sync-in Cord for Hasselblad "C" lens (QUSCHCRS2T)	Yes	—	—	Yes	32.95
534	1.5' Coiled Sync Cord - PC male household male (QUSC18RS4T)	—	Yes	Yes	Yes	28.95
535	Coiled Sync Cord, 5' for 505S/Si - PC male to household male (QUSC5RS4T)	—	Yes	Yes	Yes	28.50
536	1.5' coiled sync cord - PC male to household male (twin prong with center pin) - for 505S/Si (QUSCCP18RS4T)	—	Yes	Yes	Yes	28.95
537	5' coiled sync cord - PC male to household male (twin prong with center pin) for 505S/Si (QUSCCP5RS4T)	—	Yes	Yes	Yes	26.50
539	12" straight replacement sync cord - PC male to household male (twin prong with center pin) - for 505S/Si (QUSC12RS4T)	—	Yes	Yes	Yes	28.95
540	Sync-Out- Qflash sync household to household (QUSCHHHHQF)	—	Yes	Yes	Yes	23.95
541	Sync-Out - Qflash sync household to mini phono (QUSCHHHHQF)	Yes	—	—	Yes	28.95
570	Special Sync Cord for Hasselblad "C" lens (QUSCHCRS4T)	—	Yes	Yes	Yes	32.95
QF53	Hot Shoe Sync Adapter for 505S via hot shoe of camera (QUQF53)	—	Yes	Yes	Yes	43.95
FW20	Sync-in Cord 18", PC to FreeWire accessory connector (QUFW20)	—	—	—	Yes	32.95
FW21	Hot Shoe Sync 18", to FreeWire accessory connector (QUFW21)	—	—	—	Yes	39.95
FW22	Hot Shoe Sync 18", hot shoe to FreeWire sync-in (QUFW22)	—	—	—	Yes	47.95
FW31	Ext Cable 18", FreeWire accessory connector to Qflash or Uni-mod accy connector (QUFW31)	—	—	—	Yes	32.95

### *FreeWire Wireless TTL Adapters and Miscellaneous Cables*

FW52 (QUFW52): Wireless TTL adapter for Nikon .....	78.95
FW53N (QUFW53N): Wireless TTL adapter for Canon .....	78.95
FW57 (QUFW57): Wireless TTL adapter for Pentax .....	82.95
FW59 (QUFW59): Wireless TTL adapter for Hasselblad .....	82.95
FW60 (QUFW60): Wireless TTL adapter for Bronica .....	86.50
FW64 (QUFW64): Wireless TTL adapter for Contax 645 .....	86.50
FW65 (QUFW65): Wireless TTL adapter for Mamiya 645AF .....	86.50
XDC2 (QUXDC2): External power connection from Bantam or QB1c to FreeWire .....	27.50
MDC2 (QUMDC2): External power connection from QB1, 1+, or QB1c to FreeWire .....	27.50
FW26 (QUFW26): Multi Clip, enables FreeWire to be clipped to belt or accessory bracket .....	9.95
FW29 (QUFW29): 115v external AC adapter .....	27.50
FW33 (QUFW33): Y connector for FreeWire TX to connect a TTL adapter plus a local Qflash and FW31 cable .....	52.50



FreeWire mounts to the camera shoe with either the Uni-Mod or TTL Adapters.

# QUANTUM

## FREEWIRE & RADIO SLAVE ACCESSORIES

### *FreeWire and Radio Slave Motor Drive Cords*

Model	Description	Compatibility				Price
		405	505	505i	FW10	
451	Nikon MD2/4/12/15, 8008, 8008s, F4S, (N90, N90S, F5 need Nikon adapter MC25) (QUMDC451)	Yes	Yes	Yes	Yes	48.50
452	Hasselblad ELM, ELX (QUMDC452)	Yes	Yes	Yes	Yes	49.95
453	Canon, Olympus, Bronica SQAM, ETR Motor Drive (QUMDC453)	Yes	Yes	Yes	Yes	48.50
454	Mamiya RZ67, RZ67 II, 645 Super, 645 Pro (QUMDC454)	Yes	Yes	Yes	Yes	76.95
456	Leica R3, R5, R6, R6-2, R7, RE (QUMDC456)	Yes	Yes	Yes	Yes	79.95
458	Minolta 5000, 7000, 9000, 5000i, 7000i, 8000i, 5Xi, 7Xi, 9Xi, 700si, Maxxum 7,9 (QUMDC458)	Yes	Yes	Yes	Yes	79.95
459	Canon EOS A5, A2E, A2, 1, 1N, 620, T90 (QUMDC459)	Yes	Yes	Yes	Yes	79.95
463	Bronica SQAI (QUMDC463)	Yes	Yes	Yes	Yes	48.50
464	Rollei 6008, 6006, 6003, 6002, SLX (QUMDC464)	Yes	Yes	Yes	Yes	49.95
465	Hasselblad 503CW /CXI Motor Drive Cord (QUMDC465)	Yes	Yes	Yes	Yes	34.95
466	Canon EOS-3, 1V, D30, D60, 10D, 1D, 1Ds (QUMDC466)	Yes	Yes	Yes	Yes	84.95
467	Mamiya 645AF (QUMDC467)	Yes	Yes	Yes	Yes	59.50
FW41	Two step MD cord for Contax 645, Canon Elan 2, 2E, 7, 7E, Rebel 2000, XI Lite, Hasselblad H1 (QUFW41)	—	—	—	Yes	34.95
FW42	Two step MD cord for Maxxum 7, 9 (QUFW42)	—	—	—	Yes	91.95
FW43	Two step MD cord for Canon EOS-1v, 3, 10D, 1D, 1Ds (QUFW43)	—	—	—	Yes	76.95
FW44	Two step MD cord for Nikon D1, D1H, D1X, F5, N90/s, F90x, F100 / Kodak DCS 760 (QUFW44)	—	—	—	Yes	66.95
FW45	Two step MD cord for Mamiya 645AF (QUFW45)	—	—	—	Yes	66.95
FW46	Two step MD cord for Canon EOS-1, A2/A2E, T90 (QUFW46)	—	—	—	Yes	66.95
FW47	Two step MD cord for Pentax 645N and all autofocus SLR Cameras except Z-1p (QUFW47)	—	—	—	Yes	66.95

### *FreeWire and Radio Slave Accessories*

Model	Description	Compatibility				Price
		405	505	505i	FW10	
415	115v AC Adapter / Charger for 505R or 405R (QUACACRS4R)	Yes	Yes	—	—	29.95
438	Replacement belt clip for 405T transmitter (QUBCRS2T)	Yes	—	—	—	9.95
511	Replacement belt clip for 505S sender (QUBCRS4T)	—	Yes	—	—	9.50
512	Replacement dead shoe mounting kit for mounting 505Si to bracket or tripod (QUMKDS505SI)	—	—	Yes	—	8.95
513	Pole Mount Adapter for Radio Slave 2/4/4i/FW (QUPMRS4RI)	Yes	Yes	Yes	Yes	19.95
515	115v AC adapter (US) for 505Ri (QUACA505RI)	—	—	Yes	—	27.50
516	220v AC adapter (overseas ) for 505Ri (QUACA505RIX)	—	—	Yes	—	26.50
538	Replacement belt clip for 505Si Sender (QUBCS505SI)	—	—	Yes	—	5.95

# POCKET WIZARD

## MULTIMAX

FLASHES & ACCESSORIES

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### Advanced Digital Radio Triggering System

The world's most innovative and advanced digital radio triggering system, the PocketWizard MultiMAX Transceiver features wireless transceiver technology, thus eliminating the need for a separate transmitter and receiver setup. Each MultiMAX can send and/or receive digital signaling by a flip of a switch, similar to personal communicators. Among many advantages, it allows you to select between transmitter or receiver mode as shooting assignments change.

The MultiMAX offers TrueTrigger Confirmation feedback, up to 1600 feet away, without the need for signal repeaters or daisy-chained radios. Selecting which camera or flash zone fires is as easy as pressing a button in "Selective Quad Triggering" mode. The MultiMAX automatically confirms radio triggering on every zone simultaneously, with immediate visual and audible feedback. Using the optional Flash Confirmation Cable, the transmitter receives a visual and audible confirmation signal that a triggered flash actually fired. Finally, the bundled "Trigger Time Control" software makes it easy and very convenient to create rear curtain sync effects with any camera, add depth of field using multi-pop mode, record events as they unfold using the intervalometer mode, and much more.



WIPWMMT  
\$295<sup>00</sup>

### FEATURES

#### Wireless Transceiver Technology

The MultiMAX provides the capability to send or receive digital signaling by a flip of a switch, eliminating the need for a separate transmitter and receiver. Easy to read backlit LCD panel indicates which mode the MultiMAX is set for in all lighting conditions.

#### Digital Radio Technology

The MultiMAX incorporates microprocessor controlled full digital communication with built-in selectable 32 complex (16/24-bit) digitally coded channels.

#### True Trigger Confirmation

Because the MultiMAX is a true transceiver, it can automatically confirm radio triggering. Radio triggering confirmation status is indicated on the MultiMAX's (set for Transmitter mode) display panel, up to 1600 feet away or more in all Quad-Triggering zone.

#### Selective Quad-Triggering

Provides the photographer with the convenience to activate or deactivate electronic flash units and or cameras wirelessly in four separately controllable zones (ABCD) without ever leaving the camera position.

#### LCD Display

LCD panel with backlight illumination offers alphanumeric screens with icons: battery status, channel and mode selected, audible status and radio frequency lock indicators.

#### Keyboard

An illuminated soft-touch rubberized keypad offers test, zone (ABCD), up/down, menu and backlight keys. A key lock feature prevents inadvertent setting changes and "KEY-PAD LOCKED" appears on the screen if any keys are pressed while in keypad lock mode.

#### Flash Confirmation Cable

The optional Flash Confirmation Cable indicates that a triggered remote flash actually fired. By



utilizing a shielded high intensity light sensor, which only remains active during the brief radio transmitting time, it confirms only if the attached flash fired or not. Flash confirmation status is sent to the attached receiver and in return sent back to the transmitter. A visual confirmation icon appears on the LCD screen confirming whether the flash fired on all four Quad-Triggering zones.

**Flash Confirmation Cable (WIFCMM) ....74.50**

### Welcome to Digital Wireless Freedom!

*What is Digital Wireless Freedom? It is a new way of working where all your photographic equipment communicates together, wirelessly, so you can work smarter, not harder.*

- ◆ Imagine a studio or on-location shoot where unreliable PC cords are a thing of the past
- ◆ Imagine a light meter that wirelessly triggers (selected or all) electronic flashes and measures the light simultaneously, and can even trigger a camera.
- ◆ Imagine triggering cameras, flash units or both simultaneously from behind a camera or from a remote location.
- ◆ Imagine all this equipment protected from high sync voltage
- ◆ Imagine all this wireless technology built into your photo equipment, ready for you to control remotely



EQUIPMENT LEASING AVAILABLE

# POCKET WIZARD

## MULTIMAX

### Trigger Time Controller Features

Utilizing patented microprocessor and software technology, the MultiMAX comes loaded with "Trigger Time Control" software. Used independently or with another PocketWizard, the MultiMAX provides several unique advanced tools for professionals in one small package. With the software, it's easy and very convenient to create rear curtain sync effects with any camera, add depth of field using multi-pop mode, record events as they unfold using the intervalometer mode and much more.

#### Rear Curtain Sync:

Allows you to delay the sync time to fire an electronic flash near the end of the exposure with precision of 1/10,000 of a second. Pre-programmed shutter speeds of 1 to 1/60 of a second are easily selectable. Custom delay settings are possible through the MultiMax's delay time adjustment screen.

#### Precision Delays:

In transmit mode it offers custom set delay times for remote units and or port 2 on the MultiMAX. In receiver mode, precision delay offers delay sequencing or camera/flash synchronization.

**Intervalometer:** Photograph events as they unfold with the desired number of exposures, up to 10,000 exposures and time interval required up to 17 hours 46 minutes.

#### MultiPop (Multiple Flash Exposures):

Provides unattended control of your flash exposures for multi-pops or exposures up to 10,000 flash exposures. Automatically triggers flashes for the desired number of exposures, then waits for the required recycling time (user settable), from 1/100 sec. to 10 minutes.

#### SpeedCycler:

By providing sequential triggering for up to 4 cameras or 4 flashes, the SpeedCycler is ideal for multi-angle camera shots or reducing recycle time by triggering the next flash in line, while the previous flash is charging. Also works on-location shoots with battery-powered electronic flashes. With four MultiMax transceivers connected to the motor ports of the cameras, SpeedCycler sequentially triggers up to four cameras, effectively quadrupling frames per second.

#### Relay Mode:

In this mode the MultiMAX acts as both a transmitter and a receiver triggering both your camera and flash from up to 1600 feet away without an inch of wire. Upon receiving a signal from a remote transmitter, the on-camera receiver instantaneously switches to transmit mode and sends a signal to fire the remote flash in sync with the remote camera.

#### Lag Time Equalizer:

Measures the actual time it takes from the moment the motor driven camera is activated to the time the shutter is open. The Lag Time Equalizer software, measures the delay of your motor driven camera with fine precision accuracy of 1/10,000 sec. resolution, assists you in calibrating another camera, flash or both for simultaneous triggering and exposure synchronizing.

## POCKETWIZARD PLUS

### 4-Channel Digital Transmitters and Receivers

The result of years building sophisticated remote triggering devices, PocketWizard Plus uses the most advanced digital radio system in the industry to deliver impressive range and reliability for the professional photographer. Complex 16-bit digitally coded radio signals deliver a unique code ensuring, the receiver cannot be triggered or "locked up" by other radio noise. The built-in microprocessor guarantees consistent sync speeds even under the worst conditions.

The Plus is built around a streamlined case with a hot shoe mount on the transmitter and a cold shoe on the receiver. Each unit has a 1/4"-20" threaded mount for use with a bracket or clamp, and the hanging lanyard included makes mounting a remote receiver a snap. The transmitter and receiver each run on two AA batteries and provide uninterrupted use for 250-hours. Four digitally coded channels provide reliable triggering for up to four photographers in the same shooting environment. Incorporating PocketWizard's patented digital radio technology, the Plus provides reliable triggering up to 1600' away from the transmitter and receiver. Features like the Local/Both/Remote switch allow you to select which camera or flashes units will fire.



#### PocketWizard Plus Kit (WIPWPK)

4-channel digital radio triggering system kit including one PocketWizard Plus Transmitter, one Receiver, PC-1 camera sync cable and two "AA" alkaline batteries. (May require cable). Compatible with the first four channels of all PocketWizards.....**335.00**

#### PocketWizard Plus Transmitter (WIPWPT)

4-channel digital radio triggering system transmitter. Features local/remote/both selector switch, extended battery life, hot-shoe triggering and 1/4"-20 mounting thread. Includes PC-1 camera sync cable and two "AA" alkaline batteries (may require cable). Compatible with the first four channels of all PocketWizards.....**165.00**

#### PocketWizard Plus Receiver (WIPWPR)

4-channel digital radio triggering system receiver. Features extended battery life and 1/4"-20 mounting thread. Compatible with the first four channels of all PocketWizards (requires cable).....**184.00**

# POCKET WIZARD

## CABLES



### Camera Sync Cables (Camera to PocketWizard)

1' PC to Miniphone Straight Cable (WICPCM1) .....	19.95	5' Coiled Locking PC to Miniphone Cable (WICPCNLM5) Required for some Nikon lenses.....	19.95
5' Coiled PC to Miniphone Cable (WICPCM5).....	17.95	10' Straight PC to Miniphone Cable (WICPCM10) .....	21.95
		16' Straight PC to Miniphone Cable (WICPCM16).....	35.95

### Electronic Flash Cables

**Straight 10' Miniphone-Male  
to Miniphone-Female Extension Cable**  
(WICMMMF10) .....19.95

**Straight 16" Miniphone to  
Triple Household Cable (WICHHFM16)**  
For connecting up to three camera or  
flashes .....24.95

**Straight 16" Miniphone to  
Household Cable (WICHHM16)**  
For connecting Comet, Norman, Speedo,  
Dynalite, Novatron, Lumedyne and Quantum  
Q-flash.....17.95

**Straight 3' Miniphone to  
Household Cable (WICHHM3)**  
For connecting Comet, Norman, Speedo,  
Dynalite, Novatron, Lumedyne and Quantum  
Q-flash.....17.95

**Straight 10' Miniphone to  
Household Cable (WICHHM10)**  
For connecting Comet, Norman, Speedo,  
Dynalite, Novatron, Lumedyne and Quantum  
Q-flash.....17.95

**16" Straight Monoplug (1/4")  
to Miniphone Cable (WIC.25M16)**  
For Balcar, Calumet, Profoto, Bowens,  
Norman and White Lightning .....17.95

**3' Straight Monoplug (1/4")  
to Miniphone Cable (WIC.25M3)**  
For Balcar, Calumet, Profoto, Bowens,  
Norman and White Lightning .....17.95

**Straight 16" Miniphone Right Angle  
to Miniphone Straight Cable (WICMM16)**  
For Broncolor and Elinchrom MicroCompact  
Electronic Flash.....17.95

**Straight 6' Miniphone Right Angle  
to Miniphone Straight Cable (WICMM6)**  
For Broncolor and Elinchrom MicroCompact  
Electronic Flash.....17.95

**Straight 16" Sub-Mini to  
Miniphone Cable (WICSMM16)**  
For Canon T-3, Hasselblad SCA 390 Module,  
Metz 20BC-6, 28C-2, 32CT, MZ, 34CS2,  
40MZ, 50MZ, 54MZ-3, 70MZ-3 and 5 and  
standard SCA adapter.....17.95



**Straight 16" Miniphone to  
Sub-Mini Cable (WICSMM3)**  
For Canon T-3, Hasselblad SCA 390 Module,  
Metz 20BC-6, 28C-2, 32CT, MZ, 34CS2, 40MZ,  
50MZ, and standard SCA adapter .....16.95

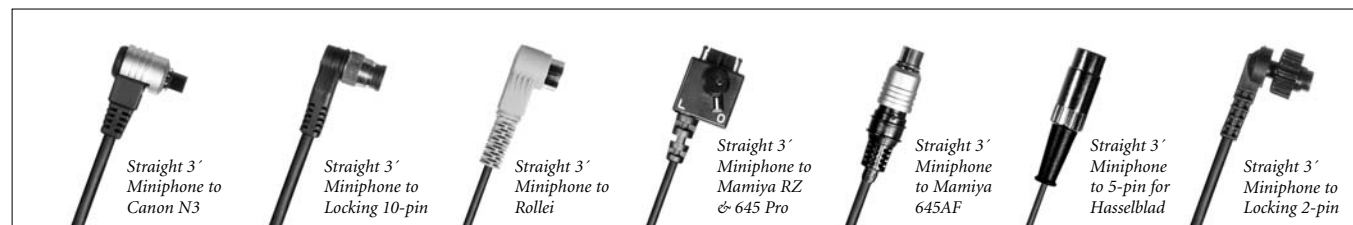
**Straight 16" Miniphone to  
Metz 6-pin Cable (WICM6PM16)**  
For Metz 45CL-1, 45CT/CL-3/4 and  
60CT-4.....33.95

**Straight 16" Miniphone to  
Metz 8-pin Cable (WICM8PM16)**  
For Metz 45CT-5 and 60CT-1/2 .....35.95

**Straight 1' Miniphone to  
Sunpak Cable (WICSM1).....17.95**

**Straight 1' Miniphone  
to Vivitar (WICVM1) .....17.95**

### Motor Drive Cables



**Straight 3' Miniphone to Canon N3 Motor Drive Cable (WIMCCE3M3)**  
For EOS-3 and EOS-1v .....112.95

**Straight 3' Miniphone to Canon N3 Motor Drive Cable (WIMCCE1NM3)**  
For EOS-1, EOS-1N, A2, A2E .....63.50

**Straight 3' Miniphone to Locking 10-pin  
for Nikon N90, N90S, F5, F100 (WIMCNN90M3) .....177.50**

**Straight 3' Miniphone to Locking 2-pin  
for Nikon F4, F4S, FE, FM, F3, 8008 (WIMCNM3).....68.50**

**Straight 3' Miniphone to  
Rollei SLX, 3000, 6000 Series (WIMCRM3) .....104.50**

**Straight 3' Miniphone to  
Mamiya RZ- and 645 Pro-TL Series (WIMCMRZM3) .....94.95**

**Straight 3' Miniphone to  
Mamiya 645AF or 645AF-D (WIMCM645AFM3) .....94.95**

**Straight 3' Miniphone to 5-pin  
for Hasselblad EL, ELM, ELX (WIMCHM3) .....72.95**



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# POCKET WIZARD

## ACCESSORIES

### Pre-Trigger Motor Drive Cables

Designed to keep the camera constantly "awake", these cables have the same effect as holding the camera's trigger button pressed down half-way. A camera will trigger much faster in the "awake" mode, but will also use up more battery power. However, the pre-trigger mode can be switched on or off from the cable itself.

<b>CM-N3-P</b> (WIPTCC3): For EOS-3, EOS-1v ..... <b>142.85</b>	<b>RLM3-P</b> (WIPTCR6): For Rollei 3000/6000 series..... <b>124.95</b>
<b>CM-T3</b> (WIPTCCAFQ): For EOS-1, EOS-1N, A2, A2E..... <b>104.50</b>	<b>RZM3-P</b> (WIPTCMRZ): For RZ-and 645 Pro-TL series..... <b>134.95</b>
<b>N90M3-P</b> (WIPTCNF5): For Nikon N90, N90S, F5, F100 ..... <b>197.95</b>	<b>MAFM3-P</b> (WIPTCM645AF): For Mamiya 645AF or 645AF-D ..... <b>134.95</b>
<b>NM3-P</b> (WIPTCNF3): For Nikon F4, F4S, FE, FM, F3, 8008 ..... <b>96.95</b>	



### Adapters

**Miniphone to Household Female** (WIHHFMA)  
For standard household sync cord .....**23.95**

**Miniphone to Sub-Mini Female** (WISMFMA)  
For Quantum motor drive cables .....**6.50**

**Straight 16" Trigger Button to Miniphone Cable** (WITBM16)  
To trigger transmitters.....**29.95**



**Straight 3' Trigger Button to Miniphone Cable** (WITBM3)  
To trigger transmitters .....**29.95**

**Miniphone Male to PC Female** (WIPCFMA)  
For standard PC sync cord .....**14.95**

**Household to PC Cord Adapter** (WIHHPCA).....**33.95**

### WaveSensor



The WaveSensor is a sophisticated and easy to use tool for capturing objects in motion. It uses changes in sound or light to trigger electronic flash units, cameras or both. The WaveSensor has an internal microphone for sound triggering and an internal light sensor, which works with the remote laser included, or many other light sources. The unit has an immediate trigger output and a delayed trigger output linked to an accurate timer for image placement after the system is tripped. The controller has an output

disable circuit to prevent firing strobes or cameras during setup. A retrigger delay timer prevents the system from firing again after the initial event. The WaveSensor can be used to measure the timing of an event from start to finish, or calculate the "Lag Time" for a motorized camera so the strobe fires when the camera has reached "full open". The WaveSensor is capable of triggering from a single drop of water or a fast-paced auto race.

**WS-1 WaveSensor** (803-205): Includes AC adapter, MM1 cable, two MMX cables, laser module, lock-out switch, shock mount and AC adapter .....**CALL**

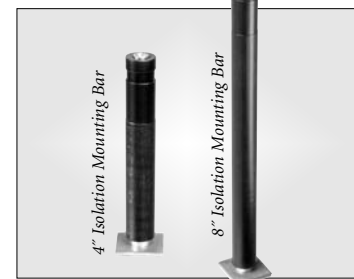
### Low-Voltage Triggers

**LVT-H Low Voltage Trigger -Household** (WITLVHH):  
Connects between the camera's PC socket and the flash to prevent damage to the camera's sync circuitry due to high triggering voltage from electronic flash. Requires cables .....**77.95**

**LVT-M Low Voltage Trigger -Miniphone** (WITLVMP):  
Connects between the camera's PC socket and the flash to prevent damage to the camera's sync circuitry due to high triggering voltage from electronic flash. Requires cables .....**77.95**

### Mounting Bars

**4" Isolation Mounting Bar** (WIMB)  
To mount PocketWizard products to super clamps. For convenient placement of PocketWizards and/or isolation from RF (radio frequency) noise. Includes velcro an 1/4-20 male mounting screw.....**16.95**



**8" Isolation Mounting Bar** (WIMB8FW)  
To mount PocketWizard products to super clamps. For convenient placement of PocketWizards and/or isolation from RF (radio frequency) noise. Includes velcro an 1/4-20 male mounting screw.....**18.95**

## BATTERY-FREE PHOTO SLAVES

For over 25 years Wein has offered the widest range of professional flash slaves. Whether you want to trigger a shoe flash from across the room, or a power pack from half a mile away, Wein has a slave that will do the job. Solid, tough and reliable, there is a model for any type of flash connection. Plus, you can leave the batteries home, Wein slaves don't use any.

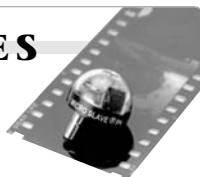
### PEANUT SLAVES

#### PN "Peanut Slave" (WEPN)

Plugs directly into the Vivitar 283/285; and to other flash units via a standard PC cord. Plugs directly into Nikon SB-24/25/26 by means of PCM Adapter (W990325). Cast-plastic construction with integral standard 'PC' connector for long-term reliability. 100' indoor range .....**19.95**

#### PN-XL "Peanut Ultra Slave" (WEPNXL)

Enhanced version in a slightly larger size. Unaffected by strong sunlight. 300' range .....**34.95**



### HOT SHOE SLAVES



#### HS Hot Shoe Slave (WEHS)

With hotshoe and PC terminals. 150' range .....**34.95**

#### HS-XL Hot Shoe Ultra Slave (WEHSXL)

The most sensitive shoe slave ever made, the high performance HS-XL has a range that exceeds 600'. Unaffected by sunlight. With hot shoe and PC terminals .....**79.95**

### MICRO SLAVES

#### L8 Micro Slave (WEL8)

With "H"-prong for all flash units accepting household-style plugs. Rugged and dependable. 150' range .....**29.95**

#### XL8 Micro Ultra Slave (WEXL8)

With "H"-prong plus PC tip. Non-polarized. For all flash units accepting household-style plugs or PC cords. Unaffected by sunlight. 400' range .....**44.95**

#### XL8-E Micro Ultra Slave (WEXL8E)

High performance slave for with monoplug and PC terminals for use with Bowens, Balcar, White Lightning, Photogenic and other units equipped with plug jacks or PC terminal. 400' range .....**59.95**



### ULTRA SLAVES

#### XL Ultra Slave (WEXL)

With "H"-prong and PC terminals. For all flash units accepting household-style plugs or PC cords. 600' range .....**74.95**

#### XL-E Ultra Slave (WEXLE)

High performance slave for with monoplug and PC terminals for use with Bowens, Balcar, White Lightning, Photogenic and other units equipped with plug jacks or PC terminal. 600' range .....**84.95**



#### SSL Ultra Slave (WESSL)

With "H"-prong and PC terminals for all flash units accepting household-style plugs or PC cords. (Supplied with SSR/SSR-JR systems.) 3000' range .....**89.95**

#### SSL-E Ultra Slave (WESSLE)

High performance slave for with monoplug and PC terminals for use with Bowens, Balcar, White Lightning, Photogenic and other units equipped with plug jacks or PC terminal. 3000' range. (Supplied with SSR-E/SSR-E JR Systems.) .....**104.95**

# WEIN

## SSR & SSR-JR

### Studio Remote Controls

High-powered, for big studios or large-scale industrial/architectural work, SSR systems let you fire your slaved strobes without triggering flash. No need to hook up a PC cord to the main flash or use a camera-mounted strobe; the SSR transmitter replaces them both. Mount the compact transmitter on your hot shoe, or connect it to the camera PC terminal; each time you shoot, the SSR transmitter fills the studio with an invisible pulse of light. A super-sensitive SSL Ultra Slave picks up the signal from any direction and fires the main flash, which in turn triggers all other slaved strobes in the setup. Simple, reliable, professional. Excellent for the average-size studio, SSR-JR systems are identical except they offer up to 150' operation.



#### SSR Open Channel

##### High Power System with "H" Prong (WESSR)

Includes SSR Transmitter and SSL Receiver (SSL Ultra Slave with "H"-prong and PC terminals for all flash units accepting household-style plugs or PC cords.) Omnidirectional, "Surround-Sync" performance at a distance of up to 600' indoors. Transmitter can be pointed anywhere because line-of-sight is not required. Transmitter uses "AA" batteries for up to 5,000 shots and meets ISO specifications for shutter contact protection. With fresh batteries, transmitter recycle time averages less than a second, so you'll never miss a shot.....**189.95**

#### SSR-E Open Channel

##### High Power System with Monoplug (WESSRE)

Same as above except with SSL-E monoplug (plus PC) style receiver (W930015). For flash units with phono-plug style sync jacks.....**204.95**

#### SSR-JR Open Channel

##### Junior System with "H" Prong (WESSRJR)



Includes SSR-JR Transmitter and SSL Receiver (SSL Ultra Slave with "H"-prong and PC terminals for all flash units accepting household-style plugs or PC cords.) Omnidirectional,

"Surround-Sync" performance now up to 150' indoors. Transmitter can be pointed anywhere because line-of-sight is not required. Designed to ISO specifications for shutter contact protection. A 9V battery (not included) powers the transmitter for 100,000 shots. With a fresh battery, transmitter recycle time averages less than a 1/2 second so you'll never miss a shot.....**164.95**

#### SSR-E JR Open Channel

##### Junior System with Monoplug (WESSRJR)

Same as above except with SSL-E monoplug (plus PC) style receiver (W930015). For flash units with phono-plug style sync jacks.....**149.95**

## SAFE-SYNC PROTECTORS

#### Safe-Sync with "H" Prong (H in and H out)

Safe-Sync (SSH) with "H" Prong (H in and H out) protects against high sync voltage which can cause arcing and pitting at the shutter contacts, as well as long term circuit damage. Safe-Sync reduces sync voltage to 6 volts, totally isolating the camera from harmful current levels.

Does not interfere with sync circuits below 6V. Features both "H"-prong and PC connections.

Safe-Sync with "H" Prong (WESSQ) .....**54.95**



#### Monoplug to Monoplug Safe-Sync (WESSMPH)



Protects against high sync voltage which can cause arcing and pitting at the shutter contacts, as well as long term circuit damage. Safe-Sync reduces sync voltage to 6 volts, totally isolating the camera from

harmful current levels. Does not interfere with sync circuits below 6V. With monoplug style of sync cord.....**54.95**

#### Safe-Sync Hot Shoe to Hot Shoe (WESSHSH)

Mounts Directly to camera hot shoe and has hot shoe on top for flash .....**49.95**

#### Safe-Sync PC to PC (WESSPC)

In-line PC to PC with coiled cord.....**49.95**

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## PRO-SYNC

### Private Channel Remote Controls

If you shoot weddings, events, industrial or other location work, Pro-Sync is for you. A private channel remote control system, Pro-Sync provides cordless, omni-directional remote flash control with virtual immunity to interference. Unlike radio frequency (RF) remote flash control systems, Pro-Sync uses state-of-the-art coded infrared technology to fire remote flash units. Common sources of radio interference, like cellular phones, pagers, and wireless microphones (very common at weddings), can disrupt radio flash signals, but are no threat to Pro-Sync. Because the Pro-Sync signal is encoded, the system cannot be triggered by any flash or light source.



**The Transmitter:** The Pro-Sync transmitter can be mounted on, and fired by any standard camera hot shoe (or connected to a PC terminal for off-shoe use). Just slide the compact transmitter onto your camera and forget it; no cords, no antenna, nothing to clip to your belt.

A pair of "AA" batteries in the transmitter provides power for up to 5,000 shots, with recycle times averaging less than a second; that's faster than almost any flash, so your Pro-Sync is up and ready when you are.

Each time you shoot, the transmitter fires, and an "explosion" of coded infrared lights fills the room, bouncing off walls and around corners. You can't see the signal (neither can your film), but the Pro-Sync receiver sure can.

**The Receiver:** Plugged into your remote flash, the Pro-Sync receiver is in a "standby" mode, waiting for the transmitter signal. Nothing else can trigger the receiver, not even a full-power flash fired inches away. Pro-Sync receivers are incredibly sensitive and can easily pick up the signal from behind backdrops, soft boxes, even around a roomful of wedding guests. They work indoors or out, with a maximum range of 600' (indoors).

The Pro-Sync receiver draws its power from the flash to which it is connected, so there are no batteries to change. Receivers are available with either integral "H" prong or monoplug sync connectors, so they connect directly, cordlessly, to most professional flash units or power packs. For additional versatility, each receiver also has a standard PC terminal.

### PS500-1 Pro-Sync 1-Channel System with "H" Prong

One channel (includes transmitter and "H"-prong type receiver) private-protected system prevents interference from other photographers' flashes. Receiver only responds to discrete transmitter pulse. Operates at ranges up to 600' indoors. Includes 10" miniplug-to-PC coiled cord for non-hot shoe cameras. Universal stainless steel mount clip.

- **Transmitter:** Color-coded On/Off switch. Battery saver circuit provides 5000 firings from two AA alkaline batteries. Ready light, open flash test button. Locking shoe mount; triggers by hot shoe or via PC cord (supplied). Measures 2½ x 3 x 1½", weighs 3 oz. (less batteries).
- **Receiver:** "H"-prong and "PC" connectors. Two velcro strips for mounting when using PC cord. Measures 1½ x 2½ x 7/8", weighs 1.3 oz.

PS500-1 Pro-Sync (WEPS5001).....209.95

#### PS500-1E Pro-Sync

##### 1-Channel System with Monoplug

Same as PS500-1 except with monoplug (plus PC) style receiver (W928120). For flash units equipped with phono-plug style sync jacks.

WEPS5001E.....234.95

#### PS500-2 Pro-Sync

##### 2-Channel System with Monoplug

Same as the PS500-1 except it offers separate channels to allow control over two separate flash systems.

WEPS5002.....319.95

#### PS500-2E Pro-Sync

##### 1-Channel System with Monoplug

Same as above except with monoplug (plus PC) style receiver (W928210). For flash units equipped with phono-plug style sync jacks.

WEPS5002E.....339.95

#### SYNC-LINK

Lets you use a Pro-Sync transmitter without giving up TTL flash! The Sync-Link frees your hot shoe or PC terminal for a dedicated/TTL flash connection while using any Pro-Sync system. The tiny module velcros to your on-camera flash and senses when it fires, then completes the circuit that triggers your Pro-Sync transmitter. Sync-Link keeps your transmitter "outside the loop," allowing for normal connection of flash to camera. Sync-Link also adds on-camera flash/remote flash switching capability to single channel Pro-Sync systems. (WESLMP).....46.95



### PS500-2 PRO-SYNC Wedding Systems



Pro-Sync Wedding Systems with in-line PC hook-up for bracket mounted flash provide Surround-Sync omnidirectional performance and can shoot around corners. Includes "Batteryless" receivers.

- ◆ Full cordless operation, ultra miniature, rugged circuitry, battery-saver transmitter circuits
- ◆ Direct locking shoe-type transmitter mount for all cameras with hot shoes (PC cord included for others).
- ◆ Super strong Lexan receiver housings
- ◆ "Open-Flash" test-fire button on transmitters
- ◆ No awkward antennas, unaffected by sunlight or indoor light
- ◆ 360° sensitivity, absolutely film-safe
- ◆ ISO sync voltage standards eliminate shutter contact wear
- ◆ Infrared pulse tube good for half-million shots (replaceable)
- ◆ Legal worldwide (unlike radio slaves)
- ◆ Immune to all interference (radios, TV's, microwaves), and won't cause interference to radios or TV's. Immune to proximity of metal or cement walls; non-jammable

#### PS500-2W Pro-Sync Wedding System with "H" Prong (WEPS5002W)

Direct receiver plug-in for flash units with standard "H"-prong receptacles, and standard "PC" terminals as well .....**349.95**

#### PS500-2WE Pro-Sync Wedding System with "H" Prong (WEPS5002WE)

Direct receiver plug-in for flashes with European ("monoplug") receptacles and standard "PC" terminals as well .....**359.95**

### Wein Slave Accessories

#### "WeinTIP" to PC Cord (WEWTPC)

Replacement. For use with Wein transmitters without a locking foot.....**14.95**

#### "H"-Prong to Monoplug Adapter (WEPHH)

One piece adapter combining a female "H"-prong socket with a male monoplug. Makes "H"-prong style slaves, receivers and cords compatible with European style monoplug jacks found in Balcar, White Lightning, Photogenic, Bowens, and other flash units.....**19.95**

#### PC Female to "H"-Prong Adapter (WEPCHA)

A convenient converter that has a molded PC (female) plug and a molded standard "H"-prong female socket connected by a 9" cord.....**14.95**

#### SB24/SB25/SB26 Adapter (WEPCM)

A molded, one-piece "male PC" to "male PC" adapter that allows any Wein receiver or slave having a PC terminal to be cordlessly connected to the Nikon SB24, SB25, SB26 sync terminal.....**14.95**

#### Teleflash Monitor (WETFM100)

The TeleFlash Monitor is a compact, battery operated flash monitor that blinks for about five seconds when the flash fires—providing absolute positive confirmation that a flash unit fired at shutter release—then automatically resets. There are no electrical connections. TeleFlash senses the pulse current entering the flash tube by means of electro-magnetic induction. TeleFlash is attached to the flash head cord. It can also be affixed directly to the flash head with Velcro (provided). Any failure is instantly detected. It also reminds you when a remote light is off. Works with on-camera flash as well. Fastens to power cord by means of supplied quick-release nylon clip, or with Velcro tape (supplied). Measures 1½ x 3 x 1" and weighs 1.4 oz. (without required 9v battery) ....**49.95**



#### Meter-Mate 2 Transmitter (WEMM2)



Provides slaved-flash triggering from any flashmeter equipped with a PC terminal. Micro-sized slave trigger attaches to a convenient location on a flashmeter (with supplied Velcro) and connects to the PC terminal via a short PC cord. The unit operates omni-directionally at a range of up to 100 feet when used with a Wein SSL Ultra-Slave (required for use). Meter-Mate 2 battery (included) powers up to 5000 firings and is user replaceable. Trigger's low-level infrared pulse will not affect exposure readings. Can also be used at the camera to trigger flashes when making the actual exposure.....**57.95**

#### Photo-Lok Tape Mounting System (WEPL)

A 36" roll of incredibly strong and versatile, single part locking tape that works like Velcro but is several times stronger. Will not wear out and locks itself. It is waterproof and has a super-strong pressure sensitive (permanent) adhesive backing. Will safely hold 10 lbs. per square inch.....**24.50**



#### Hot Shoe to H Receptacle Adapter (WEHSH)

This adapter has hot shoe connections on top and on bottom, and provides an "H" household socket on the side of the adapter that will allow you to connect accessories with a household type plug (e.g. slaves etc.) .....**29.95**

## EXPOSURE METERS

### Gossen for a Better Image

Light changing in intensity or color at a shooting location could mean frustration or inspiration, which can be a challenge to a photographer. Therefore, it is most important not to leave the exposure to chance or luck. Hand held exposure meters can be useful instruments in creating images, offering possibilities often far exceeding the metering systems built into cameras. Easy incident light measurement with diffusers, or intricate contrast measurements with spot attachments all help to assist the photographer meet the challenge of changing light conditions. Manufacturing exposure meters for over 65 years, Gossen has the expertise and knowledge of the dark and light aspects of photography, and have been helping photographers make the very best of every lighting situation to achieve the perfect exposure.

### DIGISIX

#### Digital & Analog Incident and Reflected Lightmeter

A prime example of high precision and reliability, based on Gossen-specific calibration and German engineering, the ultra-compact Digisix is a feature packed ambient light meter that does much more than just determine exposure.

- ◆ Digital read out in EV is easily transferred to a setting ring where all the shutter speed/f-stop combinations can be read at a glance.
- ◆ Digital LCD read-out and contrast scene read-outs are in 1/3-stop increments. Meter sensitivity range is 0-18EV.

### DIGIFLASH

#### Digital Incident, Reflected and Flash Lightmeter

Offering all the features of the Digisix meter, plus the added benefit of taking flash readings with a range of f/2 - f/32 at 100 ISO, the Digiflash is the first flashmeter to combine both analog and digital displays in an ultra-compact design. Easy and comfortable to use, great for flash and ambient light.

- ◆ Simply enter the desired sync speed, and trigger the flash. The Digiflash will display the resulting EV value measured in the LCD display. The value is then placed precisely under the red indicator. Read the required F-stop on the scale opposite your selected flash sync speed.

	DIGISIX (GODS)	DIGIFLASH (GODF)
Angle of Coverage	25°	25°
Apertures	f/1 to f/32	f/2 to f/32
EV Corrections	+/- 3.0 EV	+/- 3.0 EV
Film Speed	ISO 6-3200	ISO 6-3200
Measuring Range Ambient	—	EV 0 to +18
Measuring Range Flash	—	f/2 to f/32
Shutter Speeds	1/2000 to 4 min	1/2000 to 4 min
Battery	Lithium CR-2032	Lithium CR-2032
Dimensions	3 x 2 x 1"	3 x 2 x 1"
Weight (with battery)	1.5 oz.	1.5 oz.
Price	\$149.95	\$179.00



#### They Both Feature

- ◆ They are small enough to sit comfortably on your camera's hot shoe (with optional shoe adapter) and sport a digital read-out and analog scale for ambient light levels that can be measured in reflective or incident mode.
- ◆ They also incorporate a functioning clock with alarm (adjustable for both 12 or 24 hour display), a timer for timing long exposures (0 seconds to 30 minutes), plus a precision digital thermometer which measures temperatures (can be set for either Celsius or Fahrenheit) and stores a high and low value.
- ◆ They weigh 1.5 oz and include a carry case, strap and battery.

#### Optional Camera Shoe (GOCSDS)

The optional camera shoe allows the Digisix or Digiflash to be seated in the hot shoe mount of a camera. Includes 1/4" x 20 mounting screw and shoe .....**14.95**

# GOSSEN

## LUNA-PRO S

### Analog Incident and Reflected Lightmeter

The Luna-Pro S is a classic analog reflected and incident light meter. As a system meter, it will provide correct exposures in any situation. Although the symbols of the Sun and the Moon in the middle of the calculator disc represents the two measuring ranges which can be selected, it is at dusk where the Luna-Pro S performs at its very best. With its low end range value being -4EV, the meter has ample capacity for extreme low-light levels with very long exposures. When a reading is taken and the meter's rocker switch is released, the indicator needle "freezes" making it easy to read off shutter/aperture combinations. Transfer the number indicated by the needle to the corresponding number on the yellow scale, against the yellow index mark and you can read off the required shutter speed, f/stop combination of the calculator dial, it's so easy.



- ◆ Continuous, incident, and reflected light measuring
- ◆ Extra large measuring range, divided into high light and low light scales.
- ◆ Scales for shutter speeds, f/stops, exposure values, cine speeds, and the zone system.
- ◆ Setting ring for exposure corrections and extension factors (with a highly visible red reminder indicator).

#### Specifications

- Angle of Coverage: 30° • Apertures: F1 to F90
- Display Metering: Scales with needle
- EV Corrections: -6 to + 6
- Extension Factors: 1.0 to 64
- Film Speed ISO: 0.8/0° to 25,000°
- Ambient Measuring Range: EV -4 to +17
- Shutter Speeds: 1/4000 sec. to 8 hours

**Luna-Pro S (GOLPS).....399.95**

### Optional Accessories

An assortment of attachments are available to extend the meter's versatility and capabilities.

**Variable Angle Attachment (GOVAA):** This attachment with optical viewfinder reduces the measuring angle to 15° or 7.5°. The desired angle is selected with the sliding switch. Color coded circles in the viewfinder assist in aiming to the spot in the image you wish to measure. Attaching the accessory is quick and simple .....**99.95**

**Enlarging Attachment (GOEA):** Turn the Luna-Pro S into a specialty meter for the photographic darkroom. Place the measuring aperture of the Enlarging attachment in the projected negative image at the desired spot and the corresponding density value can be measured. The paper grade can be determined by metering the contrast at various areas of the projected image .....**79.95**

**Fiber Optic Probe (GOFOP):** Even well hidden spots can be reached with this measuring probe. The highly flexible probe is about 15 1/4" long, the measuring aperture is 3/16" in diameter. This makes the probe very convenient for measuring in those difficult to reach spots, for example in macro photography. Also for measuring on the camera ground glass (ambient only) .....**309.95**

## MAVOLUX 5032C

### Digital Footcandle and Lux Meter

The Mavolux 5032C is a highly accurate light meter capable of measuring illumination in either footcandles or lux. Candelas/m2 and footlamberts can also be measured with the optional luminance attachment (4141). The Mavolux 5032C is equipped with color correction, so that its spectral response is matched to that of the human eye, in accordance with DIN 5032, part 7, class C. Integrated cosine correction is included in order to assure that oblique incident light is also evaluated correctly. Ideal for industry, trade, electricians, architects, institutes, inspection authorities and also photo and film studios. Even very strong light (e.g. from car headlights) can be measured without any additional accessories.



**Automatic/Manual Measuring Range Selection:** Either lux or footcandles can be selected as a measured quantity. The measuring range is then automatically matched to the quantity. The current measuring range can be locked by pressing a key, or any one of four measuring ranges can be selected manually.

**MAX Function:** The largest measurement value which occurs after this function has been activated is stored to memory in order to determine maximum illuminance or luminance.

**Hold Function:** The current measurement value can be held at the display by pressing the data hold key.

**Mavolux 5032C (GOM5032C).....624.95**

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# GOSSEN

## LUNA-PRO DIGITAL

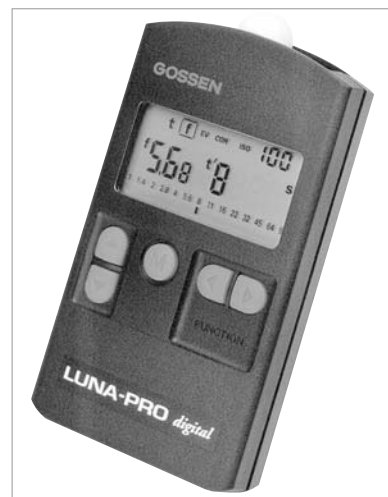
FLASHES & ACCESSORIES

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### *Incident and Reflected Lightmeter*

A thin, lightweight, easy-to-use meter for ambient light, the Luna-Pro Digital's front panel features five control buttons that are easily recognizable with large, high-contrast numerals. A built-in optical diffusion dome easily slides to switch between incident and reflected light measurement. When the measuring button is pressed, in the time mode (T), the meter automatically switches into contrast measurement. A series of cursors on the analog scale clearly indicate the range of contrast of the subject being measured. To conserve batteries, the meter has an automatic "power off" function.

- ◆ User friendly, with three controls using only five buttons.
- ◆ Built-in optical diffusion dome easily slides to switch between incident and reflected light measurement.
- ◆ Especially large and high contrast display
- ◆ To conserve batteries, an automatic "power off" function shuts down the meter two minutes after the last reading was taken. However, settings and measurements (shutter, film speed and selected apertures) are stored in memory and can be recalled even after the unit has been shut down.



### *Luna-Marine Housing*

Underwater housing for the Gossen Luna-Pro Digital F (4023) and Luna-Pro Digital (4022) light meters. For depths up to 120 feet. Includes O-ring, lubricant, and mounting screws. (GOLMH) .....



259.95

	Luna Pro Digital (GOLPD)	Luna Pro Digital F (GOLPDF)
Angle of Coverage	25°	25°
Cine Speeds	8 to 64, also 25 and 30 for TV	8 to 64, also 25 and 30 for TV
EV Corrections	-7.8 to +7.9 / 1.0 to 239	-7.9 to +7.9
Film Speed	ISO 3 to 8000	ISO 3 to 8000
Measuring Range Ambient	EV -2.5 to +18	EV -2.5 to +18
Shutter Speeds	1/8000 sec to 60 mins	1/8000 sec to 60 mins
Battery	1.5 V, battery level display	1.5 V, battery level display
Display/Duration	LCD 1 x 2 in / two minutes	LCD 1 x 2 in / two minutes
Dimensions/Weight	2.5 x 4.625 x 0.75"; 3.3 oz.	2.5 x 4.625 x 0.75"; 3.3 oz.
Price	\$234.95	CALL

## LUNA-PRO DIGITAL F

### *Incident, Reflected and Flash Lightmeter*



Identical in appearance to the Luna-Pro Digital, the only external difference in the Luna-Pro Digital F is the addition of a flash sync socket. That's because the Luna-Pro Digital F is also a flashmeter (cord or cordless flash operation) for professional photo studio, or for demanding location use. It can easily master the intricacies of balancing flash light to the ambient light. The meter takes two readings at the same instant: The combined reading for flash plus ambient is displayed in digital form and on the analog scale as a pulsing cursor. The ambient reading is also displayed on the analog scale as a constant cursor. The Luna-Pro Digital F can easily calculate multiple flash readings if one flash proves to be insufficient to provide the aperture and depth of field required.

- ◆ In addition to the above, the Luna-Pro Digital F offers all the functions of the Luna-Pro Digital including a built-in optical diffusion dome that slides to switch between incident and reflected light measurement, and an oversized LCD panel that provides direct readout of all critical information. Auto "power off" retains the last reading along with previously stored values of shutter speed, aperture and film speed.



EQUIPMENT LEASING AVAILABLE

# GOSSEN

## LUNA-STAR F2

### Digital Incident, Reflected and Flash Lightmeter

The microprocessor-controlled Luna-Star F2 automatically measures and analyzes both flash and continuous light in a single metering operation and displays the reading clearly, in large, easy-to-read numerals. It also measures both incident and reflected light for particularly accurate exposures, especially with subjects that are either very bright or very dark. It features a rotating head which points the light sensor in any direction. A series of flash synchronization speeds from 1 sec. to 1/1000 sec. lets you control flash exposure shots from different sources of light. The Luna Star F2's outstanding ease of use with just six buttons covers all of the operations required while the ergonomic design allows one-handed use.

- ◆ The rotating measuring head is equipped with a diffuser dome for incident light measurement. The head will rotate through 270° which allows the photographer to see the large display while taking the readings. Remove the incident diffuser dome and you can measure reflected light and subject contrast easily. The combined readout on the display is shown in both digital and analog form and provides a wealth of information.
- ◆ An optional spot attachment transforms the Luna-Star F2 into a 5° spot meter. Incredibly convenient for analyzing the subject contrast or metering the most important areas of the subject. With Parallax correction in the viewfinder for close ups of less than 3'.



FLASHES & ACCESSORIES

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### DIGIPRO F

#### Flash and Ambient Light Meter with Swivel Head

Remarkably versatile to meet the requirements of the professional photographer and dedicated amateurs, the Digipro F is perfect for both film and digital photography. Small enough to fit in your pocket while maintaining a user-friendly interface which can be operated using a single hand, the Digipro F is a high-precision exposure meter for flash and ambient light with a swivel head that makes measuring and reading easy. Measurement modes include incident light, reflected light, contrast measurements and flash metering (cord or noncord) with indication of the share of ambient light.

- ◆ Convenient swivel head facilitates measuring and reading
- ◆ Incident and reflected light mode, with flash and ambient light
- ◆ Flash measurement, cord/noncord, with additional reading of the share of ambient light
- ◆ Multiple flash calculation
- ◆ Digital read-out (LCD) in 1/10 steps
- ◆ Analog indication of the contrast in 1/2 step increments
- ◆ Storing in memory of values measured and preset
- ◆ Preprogramming of exposure corrections
- ◆ Recalling of all suitable shutter speed/aperture combinations for a given reading
- ◆ Shutter speed or aperture priority mode available
- ◆ Comprehensive range of frame speeds (fps) for CINE, including 25 and 30 fps (TV)
- ◆ Automatic switch off, all values stored in memory are maintained
- ◆ Slim, lightweight, but sturdy housing, offers comfortable one hand operation

	Luna-Star F2 (GOLSF2)	Digipro F (GODPF)
Angle of Coverage	30°, 5° with Spot Attachment (option)	25°
Cine Speeds	8 to 64, also 25 and 30 for TV	8 to 64, also 25 and 30 for TV
EV Corrections	-7.9 to +7.9	-7.9 to +7.9
Film Speed	ISO 3 to 8000	ISO 3 to 8000
Measuring Range Ambient	EV -2.5 to +18	EV -2.5 to +18
Shutter Speeds	1/8000 sec to 60 mins	1/8000 sec to 60 mins
Battery	1.5 V, battery level display	1.5 V, battery level display
Display/Duration	LCD 1 x 2 in / two minutes	LCD 1 x 2 in / two minutes
Dimensions/Weight	2.75 x 5 x 1"; 4.25 oz.	2.2 x 5.9 x 0.75"; 3.5 oz.
Price	\$449.95	\$249.95

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# GOSSEN

## STARLITE

FLASHES & ACCESSORIES

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### Waterproof Digital Incident, Spot and Flash Lightmeter

Top-of-the-line with unrivaled capabilities and multiple functions, the Starlite lets you measure light in any form: flash or ambient, reflected or incident, even a tiny spot. It provides clear, accurate exposure settings, photometric readings or even Zone System ranges for still photography or cinematography, in a compact and rugged, yet stylish, water-resistant unit. The Starlite incorporates three individual meters:

- An exposure meter for ambient and flash
- Cine meter for filming
- Light measuring instrument for illumination intensities and luminances



#### FEATURES

- ◆ Water resistant housing with rubberized edges ensure a comfortable and secure hold
- ◆ Simple operating controls logically positioned, make the meter easy to use.
- ◆ In either spot or incident, the Starlite reads cord, cordless, or multiple flash, ambient or combination light for fill flash calculation.
- ◆ The large, easy-to-read LCD display has an electro-luminescent backlight which automatically turns on in low light.
- ◆ Switches from a narrow angle 1° or 5° spot meter to full function incident meter with 270° swivel head and dual position retractable lumisphere.
- ◆ For cord flash measurements, a flash sync terminal is conveniently placed on the meter front. In addition, a multiple flash mode is incorporated for evaluating and calculating up to 9 flashes.
- ◆ Shutter speeds exposure times in full standard or half-step values
- ◆ Second ISO film speed capacity based on the result obtained for the ISO 1 setting. The corresponding values for ISO 2 will be automatically calculated and displayed
- ◆ In Cine mode, the Starlite provides filmmakers with a full range of features including a preset shutter angle of 180° adjustable in ten-step increments.
- ◆ In the Photometric mode, light intensities and luminance can be measured for both ambient light and flash with results displayed in LUX, footcandle, cd/m2, footlambert and more.

#### Multifunctional Swivel Head

A remarkable advantage is the rotary measuring swivel head, a multiple function optical center. The rotary ring at the base of the diffuser can be set at four different modes.

- ◆ Reflected light measurement of a 1° angle through the viewfinder
- ◆ Quick selection at the ring enables the meter to alternate to a 5° angle
- ◆ Incident light measurement: with raised diffuser= spherical characteristics
- ◆ Incident light measurement: with lowered diffuser= flat plane characteristics

#### Six Measuring Methods Available

- ◆ Shutter speed priority—the corresponding f/stop aperture will be displayed
- ◆ F/stop—aperture priority—the corresponding shutter speed will be displayed
- ◆ Exposure value/EV—can be directly used with certain MF lenses
- ◆ Contrast measurements—the brightness range of the subject is determined
- ◆ Averaging—the average value of up to nine single measurements can be calculated and shown in the display
- ◆ Zone System measurements—areas of different brightness are assigned to graduated zones of gray

Starlite (GOSLM)	
Angle of Coverage	1° or 5°
Cine Speeds	8 to 127 f/s, additional speeds can be adjusted
EV Corrections	-EV -7.8 to +7.9
Film Speed	ISO 3.2 to 8000 in 1° DIN increments
Measuring Range Ambient	Incident: EV-2.5 to +18 Reflected 1°: f/2.80 to f/128 / Reflected 5°: f/1.4 to f/128
Measuring Range Flash	Incident: f/1.0 to f/128 Reflected 1°: EV 2.0 to +18 / Reflected 5°: EV 1.0 to + 18
Shutter Speeds	1/8000 sec to 60 mins
Battery	1.5 V AA or 1.2 V rechargeable
Display	LCD panel with backlighting
Dimensions/Weight	6.45 x 2.59 x 1.02"; 0.4 lbs.
Price	\$644.95



# GOSSEN

## ULTRA-SPOT 2

### 1° Spotmeter for Ambient, Flash and Zone System

Photography would be rather boring without the ever changing effects of light and shadows. Nevertheless, it would be advisable to analyze the light conditions at selected, critical areas of the scene and to measure the scene contrast reliably. An all-purpose spotmeter equally adaptable to color or B&W film, the Ultra-Spot 2 is engineered for both ambient and flash lighting, as well as zone system photography. Comfortable designed, with a wealth of technically advanced features and fingertip operating ease, the Ultra-Spot 2 is the precise way to take all of your spot readings.

- ◆ Exceptionally easy to operate using just four buttons and one sliding switch
- ◆ Provides all the information you need at a single glance. When looking through its high-quality optical viewfinder, you can see the subject, a 1° measuring circle and a complete display of exposure information.
- ◆ After several consecutive spot measurements (in time priority) the average will be indicated as a digital value and also on the analog scale as a flashing cursor.
- ◆ In the EV mode resulting shutter speeds and exposure values are displayed digitally. The corresponding f/stop on the analog scale as a constant cursor.
- ◆ Zone system measurements: the zone scale indicates the difference between the brightest and darkest spots measured, which can be compressed or expanded
- ◆ Exposure information is displayed around the viewing field and includes: ambient light readings, f-stop, shutter speed, exposure value, zone or cine readings. In addition, you can average up to ten readings.
- ◆ Offers the ultimate easy solution to using the zone system with a zone scale available. Values measured in the zone system can easily be switched over into the corresponding exposure data of shutter speeds and f/stops.
- ◆ Small gray card stickers included



ULTRA-SPOT 2 (GOUS2)

**Cine Speeds:** 8 to 64, also 25 and 30 for TV

**Display:** Viewfinder 15° with 1° measuring field, LCD data display

**EV Corrections:** -9.9 to +9.9/1.0 to 955

**Film Speed:** ISO 1 to 80000

**Flash Sync Speed:** 1/8 to 1/1000 sec; also 1/90

**Measuring Range Ambient:** EV 1 to +22

**Measuring Range Flash:** f/2.8 to f/90

**Shutter Speeds:** 1/8000 sec to 1 hour, also 1/90

**Price:** \$921.95

### COLOR-PRO 3F Color Temperature Meter

Light for photography is not only defined by its light intensity and luminance, but also by its color composition. The Color-Pro 3F measures the photographic color temperature of flash and ambient light, and indicates the measured results in degrees Kelvin (K). Furthermore, after comparing the color temperature measured with the pre-selected color temperature of the film, it calculates the filter values required to achieve photographs without color casts. The resulting filter values can be expressed as light balancing values in Mired or Kodak Wratten values. In addition, it indicates in CC filter values the correction required, for example, when working with fluorescent lighting.

- ◆ Professional color temperature meter (2000 to 40,000K) for flash and ambient lighting
- ◆ Measures the intensity of the ambient light in lux and of flash light in lux seconds
- ◆ Programmed with three of the most used color temperatures (5500K, 3400K and 3200K). These can be overridden with color temperatures between 2000 and 9900K)
- ◆ Filter values can be expressed in mired or Kodak Wratten values
- ◆ Meter indicates recommended CC filter
- ◆ Button for measuring the light is conveniently placed on the right side of the meter, as are the buttons for changing the values up or down. Buttons for changing the functions left or right are on the front of the meter.



GOCP3F  
\$1196<sup>95</sup>

#### COLOR-PRO 3F SPECIFICATIONS

**Flash Sync Speed:** 1/2 to 1/500 of a second including 1/90

**Light Balancing Filters:** -399 to 475 mired scale. Switchable to corresponding wratten filters.

**CC Filter Values:** 0 to 95 magenta and green

**Light Intensity:** 10 to 190,000 lux

**Flash Power:** 5 to 20,800 lux/seconds

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# KONICA MINOLTA

## AUTO METER VF

FLASHES & ACCESSORIES

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### Digital Incident and Flash Light Meter

A high-performance photographic exposure meter incorporating a spot meter function, the Auto Meter VF features simplified operation and enhanced functionality. In addition to providing shadow/highlight-based exposure calculations for reflected light measurement, the meter offers a custom setting mode which allows users to specify a desired exposure correction value and shutter speed increments across a broad range of aperture and shutter speeds. It also provides an Analyze function, which conveniently displays the flash/ambient lighting ratio. Ambient or flash, with or without a sync cord, the Auto Meter VF provides unparalleled repeatability and accuracy. It is a meter you can rely on completely, leaving you free to concentrate on the creative challenges at hand. The large, over-sized LCD display shows all the necessary information at a glance. With the shutter speed appearing on the left and the aperture on the right, the LCD display is designed to make viewing easy in all environments.

#### FEATURES

##### Easy-to-Use

Compact and lightweight, the Auto Meter VF comfortably fits into your hand. Rubber buttons are positioned in a straightforward, easy-to-use configuration, which helps keep the meter dust and weather resistant. A rubber-lined frame assures a sure grip while providing additional protection.

##### Operating Ranges

- ◆ Shutter speed range is 1/8000 sec. – 30 min., in 1/3-, 1/2-, and 1.0-stop increments.
- ◆ Film speed range is ISO 3- 8000 in 1/3 stops and cine speeds range from 8 to 128 fps including 25 fps (Europe) and 30 fps (US).
- ◆ The X-sync range is 1/500 – 1 sec.
- ◆ Both f/numbers and EV numbers are displayed digitally to 1/10th-stop accuracy. Analog scale displays f/number readings from f/1.0 to f/90 in 1/2 stop increments.

##### Flash Readings

For flash measurement, select Cord type or Non-Cord type according to measurement conditions. With the Cord setting, when the sync cord of the flashbulb is connected to the sync terminal, the measured value can be displayed by pushing the measurement button. With the Non-Cord type, pressing the measurement button sets the meter to standby for measurement. When the flash is emitted, the Auto Meter VF takes the measurement.

##### Ambient Light Readings

Ambient light readings can be taken by simply setting the film speed and shutter speed, positioning the meter, and then pressing the measuring button to take a reading. By holding the measuring button down, you can take continuous readings throughout the subject area.

##### Memory Mode

The Auto Meter VF's memory has space for two separate readings. Both stored data and current measured data are displayed simultaneously on the analog scale. Memory marks also indicate the number of readings you have stored. This feature makes it easy to analyze the contrast range of your subject or lighting ratio or to view several separate readings in relation to one another.

##### Analyze Function

If both flash and ambient light are present, the percentage of flash light in the total exposure is automatically displayed on the meter's quadrant-style analyze scale. The flash light proportions are 0% to 100%, in 25% increments. For example: when two quadrants appear, the flash contribution is approx. 50%. The photographer can change the lighting effect by controlling the shutter speed and observing the number of quadrants displayed. This lets you set the exposure to provide the results you want, mainly ambient light to catch the mood, mainly flash to overpower the ambient light, or something in between.



##### Monitor Function

The meters brightness difference function helps you quickly determine lighting ratios and check for consistency of illumination when taking product shots, portraits, etc. Simply measure a reference tone, then press the A\* button. The brightness difference symbol will appear on the LCD readout. Then, measure other areas of the scene. The meter will display the brightness difference in terms of  $\pm$  EV in 0.1 EV increments

##### Exposure Calculation (S/A/H) Functions

The Auto Meter VF is equipped with three exposure calculations: Shadow, Average, or Highlight. Average can be used for both incident and reflected light measurements while the Highlight and Shadow functions can be used for reflected light measurements only.

- The averaging function automatically calculates and displays the average of two stored measurements.
- In highlight mode, the value for the brightest measured point is increased by 2.3 stops (set value) to produce an exposure reading that will render the measured area as a highlight in the photo.
- In shadow mode, the value for the darkest measured point is increased by 2.7 stops (default value) to produce an exposure reading that will render the measured area as a shadow in the photo.

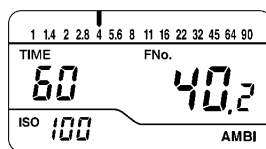


# KONICA MINOLTA

## AUTO METER VF

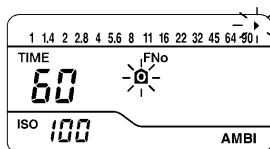
### Custom Settings

- ◆ The following display modes can be customized according to the photographer's preference. To set the custom display modes, turn the meter OFF and then press the Power button in combination with:
  - The measuring button—to set exposure correction value. Use the Up/Down control to adjust the value up to  $\pm$  in 0.1EV increments.
  - The ISO button—to set shutter speed value. Use the Up/Down control to adjust the value in 1-stop, 1/2-stop, and 1/3-stop increments.
  - The MODE button—to set Time /Cine readout. Use the Up/Down control to select either the TIME or CINE display.



The f-number for proper exposure is displayed on the digital readout - and on the analog scale by a pointer

If the exposure reading is outside the display range of the meter, F No. and "over" or "under" will blink.



- The Display Selector button (FNo/EV)—to set the aperture display in either full stops with 1/10 – stop increments or direct F number readout, which displays intermediate f-number setting (e.g. f/3.5, 3.6, 3.7, etc). This is useful for many of today's digital cameras.
- ◆ Once you have set one of the above preferences, press the Power button to turn the meter OFF and then turn the meter back ON, which will lock-in the user selection.

### Cine Measurements

For cinematographers, the Auto Meter VF has 10 frame rates: 8, 12, 16, 18, 24, 25 (Europe), 30 (TV), 32, 64, & 128 (Opening angle of 180). To set the meter for cine readings, press the Power button while pressing in the MODE button. Then use the Up/Down key to select CINE mode.

### Price

**Auto Meter VF (MIAM5):** With Spherical Receptor, neck strap and case.....**219.95**

### Auto Meter VF Specifications

**Receptor:** Silicon Photocell 270° rotating receptor with automatic calibration for reflected light receptors.

#### Measuring Modes:

AMBI mode: Ambient light measurement

CORD mode: Flash light measurement with sync cord

NON.C mode: Flash light measurement without sync cord

#### Measuring Range: (ISO 100)

#### Ambient Light:

Incident light: EV -2 to 19.9

Reflected light attachment II: EV 2.5 to 24.4

Viewfinder 5°: EV 2.5 to 24.4

#### Flash Light:

Incident light: FNo.1.0 to 90 + 0.9 stops

Reflected light attachment II: FNo.1.0 to 90 + 0.9 stops

Viewfinder 5°: FNo.1.0 to 90 + 0.9 stops

**Repeatability:**  $\pm$ 0.1 stops

#### Display Range:

F-number (FNo.): 1.0 to 90 +0.9 stops (0.1-stop increments)

Exposure Value (EV): -17 to 40.8 (0.1-stop increments)

Shutter speed: Ambient light: 30 min. to 1/8000 sec. (1-, 1/2- or 1/3-stop increments)

Flash light: 1 to 1/500 sec. (1-, 1/2- or 1/3-stop increments)

Framing rate: 8 to 128 frames/sec.

ISO: 3 to 8000 (1/3-stop increments)

Exposure Difference:  $\pm$ 10.0 (0.1-stop increments)

Analog scale: FNo.1.0 to 90 (1/2-stop increments)

Analyze scale: Flash light proportion 0 to 100% (25% increments)

#### Other:

Power: One AA alkaline battery

Dimensions: 2.3 x 5.8 x 1"; 4.4 ounces

### Optional Accessories



#### 5° Viewfinder (MIVF5):

The 5° Viewfinder features a 5° angle of acceptance and enables spot metering of subjects from a distance. The meter can thus be used to accurately measure small areas of a scene.....**99.95**

#### Flat Diffuser (MIFD):

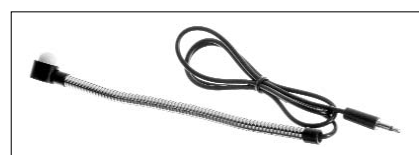
The flat diffuser is used to measure the lighting ratio between main and auxiliary light sources to determine illuminance values, and to take exposure readings for flat surfaces such as paintings .....**17.95**



#### Reflected Light

#### Attachment II (MIRLA405F):

The reflected light attachment has a 40° angle of acceptance, which corresponds to the angle of view seen with a 50mm lens on a 35mm SLR camera .....**17.95**



#### Mini Receptor (MIMR):

For photomacrography and close-up work, this remote receptor plugs into the socket on the meter's receptor head. The Mini Receptor can be used to measure incident light in places that are otherwise inaccessible to the meter's receptor head .....**124.95**

#### Sync Cord III (MISC3):



The Sync Cord III is a 5-meter long cord that connects to the meter, flash unit, and camera's sync terminal

simultaneously, making possible meter-flash and camera-flash synchronization without changing direction.....**29.95**

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# KONICA MINOLTA

## FLASH METER VI

FLASHES & ACCESSORIES

310

### **Digital Incident, Reflected, Spot and Flash Lightmeter**

The Flash Meter VI sets the standard by incorporating a compact, high-performance 1° spot meter function for the utmost in versatility. However, the Flash Meter VI not only operates as two different meters with a single unit, but it also displays the incident light and reflected light measurement results simultaneously and compares them by using the meter's analog latitude display function. Separate measuring buttons allow taking both normal incident light readings and reflected-spot readings for comparison in the meter's unique LATITUDE display mode.

The built-in spot meter uses a compact, high-precision optical system to provide a bright view while maintaining the meter's compact size. Additionally it features an easy to use diopter dial to ensure precise viewing and comfortable operation even for eyeglass wearers.

Ensuring that the tonal range of the subject will be compatible with the final medium, i.e., film, printing ink, digital, television, etc., has long been a concern to knowledgeable photographers. The Flash Meter VI enables photographers to enter latitude of film or final medium and determine mid-tone standard (18-percent) using an incident reading. Once determined, the photographer can then measure the range of subject tones with the spot meter and use the Flash Meter VI's LCD analog display to determine if they will fit the latitude range and how they will be rendered in the final result.



### **FEATURES**

#### **Compact and Stylish Design**

- ◆ Advanced optical technology enables the construction of a high-precision optical system, which allows for high-precision readings in a compact design. Meter includes spherical diffuser, strap, case and battery.

#### **Latitude**

- ◆ The latitude range based on the standard exposure measured by the flash meter (incident light measurement result) is displayed on the dot indicator of the analog scale. Simultaneously, the spot meter's reading (reflected light measurement result) is displayed on a dot indicator of another analog-like scale. This allows you to visually check how each part of the subject is reproduced on the film by confirming the difference between the measured values for highlight and shadow areas on a subject and the standard exposure.
- ◆ The Flash Meter VI lets you can easily determine the exposure suitable for an intended photographic image, because the exposure decision process can be instantaneously confirmed on the meter's LCD panel.

#### **High-Performance Spot Meter**

- ◆ Incorporates a compact, high-performance 1° spot meter function for the utmost in versatility. Separate measuring buttons allow taking both normal incident light readings and reflected-spot readings for comparison in the meter's unique Latitude display mode.
- ◆ The 1° spot meter uses a compact, high-precision optical system to provide a bright view while maintaining the meter's compact size. An illuminated digital display in the viewfinder indicates F number, EV, and brightness difference information. It also features an easy-to-use diopter control dial to ensure precise viewing and comfortable operation.

#### **Ambient Light Readings**

- ◆ Set the film speed and shutter speed, position the meter, and press either the Spot Reflected or the Incident button to take a reading. Hold the measuring button down to take continuous readings throughout the subject area. The Shutter speed can be specified in the range of 30 minutes to 1/16000 second. The measured value is displayed in the LCD window as digital and analog data.

#### **Exposure Navigation System**

- ◆ Ensuring that the tonal range of the subject will be compatible with the final medium (i.e. film, printing ink, digital, television, etc.) has long been a concern to knowledgeable photographers. The Flash Meter VI enables them to enter the latitude of the film or final medium, determine the mid-tone standard (18-percent) using an incident reading, and then measure the range of subject tones with the spot meter.
- ◆ The photographer can then use the LCD analog display to determine if the measured tones will fit the latitude range and how they will be rendered in the final result. When the readings are outside the range, the Flash Meter VI will blink to call attention to the over/underexposure results.

#### **Flash Readings**

- ◆ With a sync cord connected, pressing either the Incident or Spot measuring button fires the flash and takes an exposure reading. Without a sync cord, pressing Incident measuring button sets the meter to flash standby for 1 minute to allow time for a flash to be fired manually.



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# KONICA MINOLTA

## FLASH METER VI

### Multifunctional Meter

#### Analyze Function:

The percentage of flash light in the total exposure is automatically displayed on the meter's quadrant-style analyze scale. For example when one quadrant appears, the flash contribution is approximately 25%; two 50%; three 75%; four flash is the main illumination source. Change the lighting effect by controlling the shutter speed and observing the number of quadrants displayed.

#### Memory Function:

Up to 10 incident or spot measurements can easily be stored in memory by pressing the M (Memory) button. Incident values stored in memory are displayed on Incident analog scale (left scale); Spot values are displayed on the Spot scale (right scale). The memory data and latest measurement data are retained even when the power button is turned off.

#### Brightness Difference Function:

This function helps the photographer balance lighting or check for uneven lighting when taking product shots, portrait, etc. Simply measure a reference tone, and then press the LATITUDE button to observe the brightness difference symbol (\*), which appears on the LCD readout. Then go measure other areas of the scene. The meter will display the brightness difference on the digital readout in terms of EV in 0.1 EV increments. Incident measurements appear on the main LCD while Spot readings appear in the viewfinder.

### Custom Settings

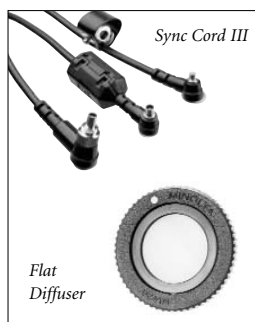
- ◆ Display mode can be customized according to your preference whenever necessary.
- Exposure correction of  $\pm 10.0$  EV
- Selectable shutter speed setting in 1-stop, 1/2-stop, or 1/3-stop increments.
- Selectable F No. Display mode in conventional full stop with 1/10-stop increments or the f-number
- Direct-reading, which provides intermediate f-number settings (e.g. f/3.5, 3.6, 3.7, etc.).
- Time or Cine mode readings
- Exposure bias adjustment up to  $\pm 10.0$  stops

### Price

**Flash Meter VI (MFM6):** With Spherical Diffuser, neckstrap and case.....**429.95**

### Exposure Calculation (S/A/H) Functions

- ◆ The Flash Meter VI is equipped with three exposure calculations: Shadow, Average, or Highlight. Average can be used for both incident and reflected light measurements while the Highlight and Shadow functions can be used for reflected light measurements only.
- The averaging function automatically calculates and displays the average of up to 10 stored measurements. To display the average of two readings stored in memory, simply press the S/A/H button.
- In highlight mode, the value for the brightest measured point is increased by 2.3 stops (default value) to produce an exposure reading that will render the measured area as a highlight in the photo. To display the highlight-biased exposure, press the S/A/H button and press the Up/Down control until "H" is displayed on the data panel.
- In shadow mode, the value for the darkest measured point is increased by 2.7 stops (default value) to produce an exposure reading that will render the measured area as a shadow in the photo. To display the shadow-biased exposure, press the S/A/H button and press the Up/Down control until S is displayed on the data panel.



### Optional Accessories

#### Sync Cord III (MISC3):

The Sync Cord III is a 5-meter long cord that connects to the meter, flash unit, and camera's sync terminal simultaneously, making possible meter-flash and camera-flash synchronization without changing direction.....**29.95**

#### Flat Diffuser (MFD):

The flat diffuser is used to measure the lighting ratio between main and auxiliary light sources to determine illuminance values, and to take exposure readings for flat surfaces such as paintings.....**17.95**

## Flash Meter VI Specifications

**Receptors:** 270° silicon photocell rotating receptor

#### Measuring Modes:

AMBI mode: Ambient light measurement

CORD mode: Flash light measurement with sync cord

NON.C mode: Flash light measurement without sync cord

#### Measuring range (ISO100)

##### Ambient Light:

Incident EV-2.0 to 19.9;

Reflected Light (spot): EV 2.0 to 24.5

##### Flash Light:

Incident-light readings: FNO. 1.0 to 128+0.9 stop

Spot reflected-light: FNO. 2.8 to 128+0.9 stop

**Measuring Distance:** .1.3 m to infinity (for spot measurement)

**Viewfinder:** Single-lens reflect type with fixed focal point (1.2x magnification and -3.0 to +1.0 dioptic adjustment range)

#### Display Range:

Exposure: F1.0 to 128+0.9 stop (0.1 stop increments)

EV: -17 to 40.9 (0.1 stop increments)

Shutter speed (ambient): 30 min. to 1/16000 sec. (1, 1/2, 1/3 stop increments)

Shutter speed (flash): 30 min. to 1/1000 sec. (1, 1/2, 1/3 stop increments)

Frame rate (Opening angle of 180°): 8, 12, 16, 18, 24, 25, 30, 32, 64, 128

ISO: 3 to 8000 (1/3 increments)

Exposure difference:  $\pm 10$  (0.1 stop increments)

Analog scale: FNO. 1.0 to 90 (1/2 stop increments)

Analyze scale: Flash light proportion 0 to 100% (25% increments)

# KONICA MINOLTA

## COLOR METER IIIF

FLASHES & ACCESSORIES

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### **Digital Ambient Incident and Incident Flash Color Temperature Meter**

*The Color Meter IIIF is a top-of-the-line professional color compensation meter for ambient and flash with correction value memory, making it easier for photographers to maintain consistent color under various types of illumination. The meter measures the color of the light illuminating the subject and determines the filtration required to correct that illumination for the film in use. When measuring both ambient light and flash, selecting the Color Meter IIIF's analyze function will subtract the ambient light and display only the measured results for flash light. Measurements can be taken for any of the three major film types: Daylight (balanced to 5500k), Type-A Tungsten (balanced to 3400k), or Type-B Tungsten (balanced to 3200k). Measurement results can be displayed as light balancing and color compensating indexes, Kodak Wratten filter number and CC index, or photographic color temperature (determined color temperature based on film sensitivity). Display of Kodak Wratten filter numbers makes selecting filters quick and convenient. If two Wratten filters are necessary, it displays both numbers. Users can store their own personal correction values for the recommended filtration. Correction values for LB and CC indexes can be stored in any of the meter's nine memory channels to custom tune meter readings for the desired color reproduction. The correction values are added to the initial measured values to calculate the final displayed results.*



### **FEATURES**

#### **Accurate Color Reproduction**

The Color Meter IIIF makes it much easier for photographers to maintain consistent color under various types of illumination. The meter measures the color of the light illuminating the subject and determines the filtration required to correct that illumination for the film in use.

#### **Ambient Light Measurement**

The Color Meter IIIF can take measurements of both ambient light and flash. Ambient measurements are taken by positioning the meter and pressing the measuring button; measurements are possible under illumination levels from EV 3 to EV 16.3 at ISO 100.

#### **Flash Measurement**

Flash readings can be taken in either cord or non-cord mode, with selectable shutter speeds from 1/500 to 1 second in full-stop increments. Measurements are possible for flash power levels corresponding to apertures (at the meter position) from f/2.8 to f/180 at ISO 100.

#### **Analyze Function**

When measuring both ambient light and flash, selecting the Color Meter IIIF's analyze function will subtract the ambient light, and display only the measured results for flash light.

#### **Wide Range of Shutter Speeds**

Select any shutter speed from 1 sec to 1/500 sec. in full stops for flash measurements. Since light for flash photographs usually consists of a combination of flash and ambient light, the Color Meter IIIF measures this combined light at the selected shutter speed. After measurement, the shutter speed can be changed, effectively changing the ratio of flash to ambient light, and the results will be recalculated for the new shutter speed.

#### **Custom-Tuned Meter Readings**

Film and equipment manufacturers all claim that their particular products are balanced to "daylight" (5500K) or "tungsten" (3400K or 3200K). However, we live in an imperfect world. Films from different manufacturers render color differently, the same film from different batches renders color differently, and the same film batch shot under different lighting conditions renders colors differently. Plus, all light sources are not created equal. Even the sun cannot be relied upon to deliver a perfect 5500K at any time of the day.

The nine memory channels of the Color Meter IIIF simplify coping with this uncertainty. Once you determine the correct filter pack for the film you are using, you simply enter the difference between your filter pack and the meter's readings into the meter, and the meter will adjust all future measurements accordingly. There are enough channels to permit entering different values for different light sources or for creating filter readings that change normal daylight into warm afternoon sun. If filtration changes due to a new film batch or processor, changing the memorized values is as simple as pressing a button.



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# POLARIS

## FLASH METERS

### Film Types and Versatile Display Modes

- ◆ Measurements can be taken for any of the three major film types:
  - Daylight (balanced to 5500K)
  - Type-A Tungsten (balanced to 3400K)
  - Type-B Tungsten (balanced to 3200K)
- ◆ Measurement results can be displayed as LB (light-balancing) and CC (color-compensating) indexes, Kodak Wratten filter number and CC index, or photographic color temperature (determined color temperature based on film sensitivity).
  - The LB index is used for selecting the required amber or blue LB filter; it is the mired difference between the photographic color temperature specified for the selected film type and that of the light source.
  - The CC index is the nominal value of the required magenta or green color-compensating filter.
  - The Kodak filter number (or numbers) of the required light-balancing filter(s) are displayed directly to make selection of the required amber or blue LB filter easy. If two Wratten filters are necessary, the Color Meter IIIF displays both numbers.

#### COLOR METER IIIF (MICM3F)

<b>Receptor Head:</b>	Rotating (90° to right/180° to left) head containing three silicon photocells (filtered to red, green, and blue sensitivities appropriate for color film)
<b>Display Modes:</b>	LB index and CC index; LB filter number and CC index; photographic color temperature
<b>Display Range:</b>	LB Index: -500 to +500 mireds CC Index: 200G to 200M LB Filter Number: 80A+80D to 85B+81EF
<b>Photographic Color Temperature:</b>	1,600 to 40,000K
<b>Correction-Value Range:</b>	LB: -100 to +100 mireds; CC: 100G to 100M.
<b>Other</b>	Sync terminal
<b>Power Source</b>	2 AA-size batteries
<b>Measures:</b>	6 1/4 x 2 1/16 x 1 1/8"; 7 oz.
<b>Standard Accessories:</b>	Case and strap
<b>Price:</b>	\$919.95

## SHEPHERD / POLARIS

### Polaris Digital Exposure Meter

The Polaris Digital Exposure Meter is a compact flash and ambient light meter that has many features of the more expensive flash meters. A unique multi-flash feature makes it simple to calculate how many times the flash must be fired to achieve a desired f-stop. The Polaris's large LCD display shows both the shutter speed and f-stop in 1/10 stop increments.

- ◆ Compact flash and ambient light meter
- ◆ Measures multi-flash readings
- ◆ Reads f/stops in 1/10 increments

**Polaris Digital Exposure Meter (SHP).....169.95**



### Polaris 2 Flash Meter

The Polaris 2 is an enhanced version of the original Polaris flash meter. It offers an on command backlight LCD display which is an essential feature when taking readings in a dimly lit situation or when using flash in a studio. By depressing the backlight button located conveniently adjacent to the trigger button, the electro-luminescence light is activated and will stay on as long as the button is depressed. This gives you complete control of the backlight feature regardless of the mode being used.

- ◆ On-command backlight LCD display
- ◆ Custom Program Level function lets you personalize the measuring levels
- ◆ Advanced circuitry lets the meter run on a single AA battery

**Polaris 2 (SHP2).....239.95**

### Polaris Dual 5 Flash Meter

The Polaris Dual 5 Flash Meter is an enhanced version of the Polaris 2. It features both 5° spot metering capability and a rotating receptor head - as well as an on command backlight LCD display. It is an essential feature when taking readings in a dimly lit situation or when using flash in a studio. By depressing the backlight button located conveniently adjacent to the trigger button, the electro-luminescence light is activated and will stay on as long as the button is depressed. This gives you complete control of the backlight feature regardless of the mode being used, whether it is flash, ambient or combined.

- ◆ On-command backlight LCD display
- ◆ 5° spot metering capability
- ◆ Rotating receptor head

**Polaris Dual 5 Flash Meter (SHPD5).....299.95**



#### 10° Spotview Attachment (SHSVAP)

Turns your Polaris Flash Meter into a 10° spot meter.....49.95

#### Flat Diffuser Attachment (SHFDAP)

Measures the ratio between main and auxiliary lights to determine luminance values and to take exposure readings of flat subjects such as paintings or documents.....16.95

# SEKONIC

## EXPOSURE METERS

### L-188 Auto Leader

The L-188 Auto Leader is an easy to use, compact, match needle reflected light exposure meter. With its light weight and thin design, it fits into a shirt pocket. The Auto Leader L-188 has a high sensitive CdS cell that allows for lower light measurements. An optional underwater housing is also available.

- ◆ Easy to use, match needle, reflected light exposure meter
- ◆ Lightweight and slim design
- ◆ Highly sensitive CdS cell allows lower light measurements
- ◆ Includes. neck cord, case and battery

Measuring Range:	(ISO 100) EV3 ~ EV18
Film Speed:	ISO 6 ~ 12,000 DIN 9 ~ 42
f/stop:	f/1 ~ f/64
Shutter Speed:	8 sec. ~ 1/2000 sec.
Movie Scale:	8 fps. ~ 128 fps.
Dimensions:	3.2 x 2.0 x .8" (WxHxD), it weighs 2 oz.



SEL188 \$64<sup>95</sup>



### L-246/L246LX

The L-246 (Footcandle Meter) and L-246LX (Lux Meter) are lightweight, compact direct measurement meters. They both have swivel heads and the simplified scale facilitates easy readings. Both meters have a selenium photocell that eliminates the use of batteries. They both feature lumidics, high slide and neck strap.

Measuring System:	Incident light type	
Measuring Range:	L246	L246LX
Low Range:	0 ~ 100 lux	0 ~ 1,000 lux
Mid Range:	0 ~ 500 lux	0 ~ 5,000 lux
High Range:	0 ~ 5,000 lux	0 ~ 50,000 lux
Accuracy:	± 10%	
Angle Deviation:	30° - 3% or less, 60° - 10% or less	
Dimensions:	4.4 x 2.3 x 1.1", weighs 4.8 oz.	
	SEL246 \$149 <sup>95</sup>	L-246LX \$149 <sup>95</sup>

### L-208 TwinMate

Ideal for the beginning or advanced amateur photographer or as a backup meter, the compact L-208 combines incident and reflected light measurement, and is designed to provide simple, one-handed operation. The printed digits are large and are color coded for easy readings. The L-208 also features a convenient accessory mounting shoe, so you can attach it to the flash shoe of most cameras. This makes it accessible and handily positioned for metering most subjects from the camera position.

- ◆ The smallest light meter to combine incident and reflected light measurement.
- ◆ Hold and Read function grabs and maintains the current reading for 15 seconds
- ◆ Utilizing a CR2032 lithium battery, the L-208 has increased operation time and fewer battery changes. Also offers a battery check button to monitor battery voltage.
- ◆ Sharp 33° angle measurement with guide in reflected mode provides decisive means for choosing values to measure, in comparison to most economical meters with a wider reflective measuring angle.
- ◆ Includes strap, carrying case and battery

Light Receiving Incident Light:	Lumisphere (flat plate type)
Reflective light:	Lens (light receiving angle 33°)
Measuring Range (100 ISO):	EV 3 ~ EV 17 incident and reflective
Film Speeds:	ISO 12 ~ 12500 in 1/2 stop increments
F/stop Display Range:	f/1/4 ~ f/32 in 1/2 stop increments
Shutter Speeds:	30 seconds to 1/8000 second
EV Display Range:	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17
Dimensions:	1.8 x 2.6 x 0.95" (W x D x H), weighs 1.4 oz.



SEL208  
\$89<sup>95</sup>



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# SEKONIC

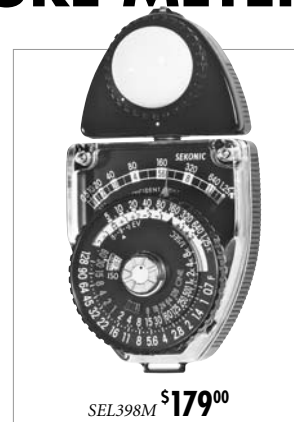
## EXPOSURE METERS

### L-398M Studio Deluxe II

An analog incident ambient light meter with a swivel head and needle lock that facilitates easy and accurate readings, and a memory pointer that retains prior readings. The selenium photocell eliminates the need for batteries. Includes Lumidisc for adjusting illumination contrast and measuring illumination intensity, as well as a Lumigrid for measuring reflected light.

- ◆ Freely rotatable light sensor section for easily performed measurements.
- ◆ Meter stopper mechanism allows operation while hand is released from meter.
- ◆ Meter release mechanism allows the needle to deflect freely. This provides greater convenience when determining light balance.
- ◆ Lumisphere detects the same light as strikes the subject. Since subjects are normally 3-dimensional, according to the lighting conditions, brighter surfaces (highlights) and darker surfaces (shadows) are produced (illumination contrast). The Studio Deluxe II mechanism automatically takes into account the strength of light from all directions, causing the meter to indicate a value applicable to photography. It is thus most convenient for determining typical exposures.

- ◆ Memo pointer enables easier light balance setting.
- ◆ After combining film sensitivity and shutter speed, direct reading slides (optional) can be used for directly determining the aperture value.
- ◆ Uses Selenium photocell as light sensing element, eliminating the need for a battery.



SEL398M \$179<sup>00</sup>

<b>Measuring System:</b>	Incident light type, reflected light measurement is also possible
<b>Measuring Range</b>	EV4 ~ EV17 (for incident light)
<b>(ISO 100):</b>	EV9 ~ EV17 (for reflected light)
<b>Film Speed:</b>	ISO 6 ~ 12,000
<b>f/stop:</b>	f/0.7 ~ f/128
<b>Shutter Speed:</b>	60 sec. ~ 1/8000 sec.
<b>Movie Scale:</b>	8 fps. ~ 128 fps.
<b>Dimensions:</b>	4.4 x 2.3 x 1.3", it weighs 6.7 oz.

### L-308S FlashMate

Amazingly small, yet extremely precise, the L-308S is a shirt pocket sized digital ambient/flash meter with built-in sliding lumisphere for reflected and incident light reading. Lumidisc included for contrast or copywork readings. A constant display of information such as ISO, measuring modes and selected settings have been redesigned similar to the L-358 FlashMaster.

- ◆ Offers a choice of Full, 1/2 or 1/3 f-stop increments to compliment digital camera displays
- ◆ Built-in sliding Lumisphere provides easy changeover from incident to reflected light measuring; Lumidisc provided for contrast measuring
- ◆ Cord or cordless flash measuring
- ◆ LCD panel provides large clear display of measured exposure data and set mode
- ◆ Single mode selection button for setting ambient or flash measuring
- ◆ With 1/10th of an f/stop measurement and display, accurate and consistent exposures are a snap-even for digital cameras
- ◆ Energy efficient AA battery operation

- ◆ Supplied with Lumidisc, case, neck cord and battery



SEL308S \$179<sup>00</sup>

<b>Measuring System:</b>	Incident or reflected for flash and ambient light
<b>Photo Cell:</b>	Silicon photo diode
<b>Measuring Range</b>	Ambient EV0 ~ EV19.9 incident/reflected
<b>(ISO 100):</b>	Flash f/1.4 ~ f/90+0.9 incident/reflected
<b>Film Speed:</b>	ISO 3 ~ 8000 in 1/3 increments
<b>f/stop Display Range:</b>	f/0.5 ~ f/90+0.9
<b>Shutter Speed:</b>	1 sec. ~ 1/500 sec. for flash light 60 sec. ~ 1/8000 sec. for ambient light
<b>Movie Scale:</b>	8 fps. ~ 128 fps.
<b>Exposure Value:</b>	EV (-) 5 ~ EV 26.2
<b>Repeat Accuracy:</b>	± 0.1 EV
<b>Power Source:</b>	AA battery
<b>Dimensions:</b>	4.3 x 2.5 x .9", weighs 2.8 oz. without battery

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# SEKONIC

## EXPOSURE METERS

FLASHES & ACCESSORIES

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### L-358 Flash Master

Sekonic's most popular compact flash and ambient meter provides great freedom combined with high precision. The L-358 Flash Master features flash/ambient analyzing in all flash modes, and an optional plug-in internal radio transmitter module that eliminates the need for cord connections while measuring flash up to 100' away (when flash units are used with compatible radio receivers). With options such as shutter speeds and apertures selectable in 1, 1/2 or 1/3 stop increments the L-358 makes operation most efficient by matching the displayed f/stop and shutter speed values to the photographer's camera. Additional features include all weather design, nine memory banks, a retractable lumisphere, included Lumigrid attachment for reflected metering and large cool-blue electro-luminescent backlit LCD. The slim L-358 is ideal for professional photographers, cinematographers, and dedicated enthusiasts in the studio, on location or anywhere.



SEL358 \$249<sup>00</sup>



SEL558 \$499<sup>00</sup>

### L-558 DualMaster

The L-558 DualMaster is the first multi-function light meter to offer a 1° spot meter that measures reflected flash output down to an amazing f/2.0 (ISO 100). Its parallax-free lens eliminates erroneous close-up photography light readings. A digital readout through the spot viewfinder displays all-important exposure information. With a turn of a knob the L-558 changes from an incident meter to a reflective spot meter for both ambient and flash measurements, all in one rugged, compact, all-weather housing. Selecting aperture or shutter priority modes or EV is as easy as turning the Jog wheel. Simultaneous evaluation of ambient and flash is displayed in three convenient ways. An easy-to-read illuminated LCD panel, directly displays in full, 1/2 or 1/3-stop increments to match film or digital cameras. Unique features such as meter calibration, exposure compensation and CINE settings offer the flexibility that today's photographer's require.

### L-558R DualMaster

The L-558R DualMaster is the same as the standard L-558 except it also features wireless triggering built-in. Offering all the advantage of wirelessly triggering cameras and flash, the L-558R is compatible with the PocketWizard Plus Receivers and MultiMAX Transceivers. It also triggers earlier PocketWizard radio systems. With PocketWizard wireless technology built-in, it is the world's first remote control light meter right out of the box. There's no optional radio module to purchase and install, it's all in there for you right from Sekonic. With wireless control at your fingertips you can trigger individual cameras and flash units remotely, without wires, using its 16/24-bit, digitally encoded radio signal. The L-558R DualMaster is the most versatile light meter with the right features necessary for digital and film shooters. It's super sensitive sensor measures light beyond the range of today's cameras and puts the power of wireless control in the palm of your hand.



SEL558R \$499<sup>00</sup>



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# SEKONIC

## EXPOSURE METERS

### Analyzing Function

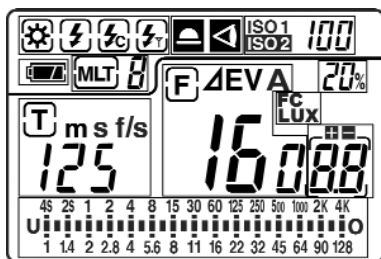
A simultaneous reading of flash and ambient light is analyzed. Readings are displayed in three different ways on the LCD. Take ambient, flash or mixed lighting exposure measurements without fumbling with meter modes, switches or different displays.

- Combined readings of flash and ambient
- Percentage of flash in the total exposure
- Simultaneous display of flash, ambient and combined readings on the analog display

### Memory Mode

Up to nine readings can be memorized in incident or spot metering modes independently in both Aperture and Shutter Priority modes. Contrast evaluation and averaging is possible in both modes.

### Illuminated Direct Display



Both shutter speeds and apertures can be displayed in full, 1/2 or 1/3 step increments to accommodate most camera manufacturer's settings. Selecting increments is quick and easy with custom setting DIP switches located in the battery compartment.

### Dual ISO Settings

They let you take a single exposure measurement and display the f-stop and shutter speed for two different ISO film speeds such as negative film and Polaroid proofing film. The second ISO setting is also ideal for calculating exposure compensation such as filter factors without having to change the original film speed settings.

### All Weather Design

All buttons, switches and compartments are sealed and the meter housing has been constructed with durable, rugged conditions in mind. Ideal for shooting in sandy, rainy or humid conditions.

### L-358 ONLY

Optional 1°, 5° or 10° spot finders easily attach to the meter in place of the removable Lumisphere. Each spot finder features a Parallax-free swiveling eye-piece for precise spot metering. A Lumigrid (reflected light receptor) is included for reflected light measurements.

### Retractable, Removable and Rotating Lumisphere

- ◆ Quickly change from standard incident (hemispherical or Lumisphere in up position - 180° angle) to cosine corrected (narrow - 90° angle) light readings with a turn of a ring. Ideal for portrait lighting it offers brightness evaluation or light ratio setups and is also ideal for flat art work light measurements.
- ◆ With the 270° rotating Lumisphere, reading the display is possible while positioning the Lumisphere toward the light or the subject without ever losing sight of the meter's display.

### Full-Featured Flash Measurements

- ◆ Cord Flash Mode— for use with standard PC sync cable
- ◆ Multiple Flash Mode— unlimited cumulative measurement of multiple triggered flash
- ◆ Cordless Flash Mode— measures manually triggered flash without a PC sync cable
- ◆ Radio Triggering Mode— wireless triggering and measuring of flash up to 100' away

### Wireless Freedom

Electronic flash units and/or cameras can be triggered wirelessly from either the L-558R or from the L-358 and L-558 equipped with RT-32 optional plug-in, multi-channel digital radio transmitter. No more tripping over sync cords, or fumbling with PC connectors. Compatible with all PocketWizard Digital Radio Receivers, these meters can simultaneously trigger and measure flash units up to 100 feet away. You can also select through the meter's software, "Quad Triggering mode" which provides you with up to four zones of lighting control remotely. Now you can individually measure several flash units wirelessly with the touch of the meter's measuring button, without walking over to each light and turning them on or off. You can even trigger motor driven cameras from the meters.

### Additional Features

- ◆ Independent incident and reflected exposure compensation of up to  $\pm 9.9$  EV (in 1/10 steps) can be easily set for custom film exposure corrections or for bellows extension actors. With the calibration compensation setting of  $\pm 1.0$  EV (in 1/10 steps), matching built-in camera meters or other handheld meters is a snap. The L-558 and L-558R also offer a filter compensation setting of  $\pm 5.0$  EV (in 1/10 steps) for filter factor compensation.
- ◆ They all feature an extra large, cool-green-illuminated full-information LCD panel that displays the complete range of readouts and modes as well as battery condition.

### L-558/L-558R ONLY

The L-558/L-558R feature a rectangular 1° parallax-free spot viewfinder. In dim or bright light situations, the L-558's spot viewfinder displays f-stops, shutter speeds and more. The built-in spot meter measures both reflected ambient, flash or combined lighting. The optical finder also features an eyepiece with an adjustable diopter.

The L-558/L-558R include a broad range of custom settings so pros and enthusiasts can tailor it to their individual working methods.

# SEKONIC

## EXPOSURE METERS

Specifications	L-358	L-558	L-558R
Meter Type	Digital Meter for Ambient & Flash	Dual readout, Digital meter for ambient and flash	
Light Receiving Method	Incident and reflected light		
Incident	Convertible to flat diffuser (Lumisphere in down position)		
Reflected	Lumigrid 54°	1° Spot lens, metering distance 3.3ft~	
Light Receptors	Silicon Photo Diode	2 Silicon Photo Diodes	
Ambient Light Mode	Aperture priority, Shutter speed priority, EV metering values		
Flash Metering Modes	With sync cord, without sync cord, with radio triggering (cumulative, non-cumulative)		
Radio Triggering	Optional	Optional	Built-in
Radio Technology	Complex 16/24 bit digitally coded (PocketWizard ready)		
Range / Channels	100ft from transmitter to receiver / 1–16 channels std. 17–32 “Selective Quad Triggering”		
Radio Frequency	Channels 1–16 344 mHz, 17–32 346.5 to 354 mHz		
Measure Range Ambient	EV -2 to +22.9	EV -2 to +22.9	EV -2 to +22.9
Measure Range Flash	f/1.0 to f/90.9	f/0.5 to 161.2 (aprox. f/175 with 1° spot)	
Film Speeds	ISO 3 to ISO 8000 (in 1/3 steps)		
f/Stop Display Range	f/1.0–f/90	f/0.5 - 161.2 (full, 1/2 or 1/3 steps)	
EV Range (ISO-100)	EV(-) 9.9 to EV36.1 (1/10 steps)		
Shutter Speed - Ambient	30 minutes to 1/8000 second (full, 1/2 or 1/3 steps)		
Shutter Speed - Flash	30 sec. to 1/1000 second (Full, 1/2 or 1/3 steps; Plus flash speeds: 1/75, 1/80, 1/90, 1/100, 1/200, 1/400)		
Cine Speeds	2 - 360fps, (fps at a 180°)		
Memory Function	Up to 9 readings on analog scale with memory recall		
Multiple Flash	Unlimited flash readings		
Flash analyzing function	% of flash in total exposure 0 –100% in 10% increments		
Average function	Flash and ambient reads up to nine measurements		
Exposure Calibration	+/- 1.0 EV	+/- 1.0EV for incident and reflected independently (in 1/10th steps); Exposure Compensation +/- 9.9EV; Filter compensation +/- 5.0EV for incident and reflected independently (in 1/10 steps)	
Brightness Difference	in 1/10 stop incr.	+/- 9.9EV (in 1/10th stops)	
Flash to Ambient Ratio	Yes	Yes; Displays % of flash in 10% incr.	
Power Source	CR123A lithium battery (3v)		
Auto Shut-Off	Shuts down after 20 minutes of non-use		
Dimensions (WxHxD)	2.4 x 6.1 x 1.46”	3.5 x 6.7 x 1.9”	3.5 x 6.7 x 1.9”
Weight	5.4 oz.	9.5 oz.	9.5 oz.
Order Code #	SEL358	SEL558	SEL558R
Price	\$249.00	\$499.00	\$499.00

## Optional Accessories



### Zoom Lens Hood (SEZLHL608)

For the L-558 and L-608. The Zoom Lens Hood prevents erroneous light measurements caused by lens glare. It also acts as a step-up ring for attaching filters to the front of the zoom lens (up to 4.5mm filter thread) .....**29.95**

### Mini Light Receptor Unit (SELRUML608)

For the L-358 and L-608.

Designed for photomacrography and close-up work, this remote receptor plugs

into the accessory socket on the L-358 and L-608. The Mini Light Receptor can be used to measure incident light in small places that are otherwise inaccessible to the meter's receptor head.....**149.95**



### Spot Viewfinders (L-358)

For the L-358. All-weather designed non-parallax 1°, 5°, 10° (angle of acceptance) spot metering viewfinders offer precise reflected light measurements of both flash and ambient light.

1° Spot Viewfinder (SEVF1D) .....**159.95**

5° Spot Viewfinder (SEVF5D) .....**139.95**

10° Spot Viewfinder (SEVF10D) .....**139.95**

### Microscopic Attachment (SEMAL608)

For the L-358 and L-608. Allows measurement through microscope eyepiece .....**19.95**



### Film Plane Attachment (SE35FPAL608)

For the L-608. Allows measurement at 35mm camera film plane .....**53.95**



### Gray Card (SEGC)

Measuring the light reflected from this 18% gray card provides accurate exposures regardless of reflection ratio of the subject and surroundings. Small, folding, pocket-size. Approx: 4 x 5" ..**34.95**

### Synchro Cord (SESCZ)

Specially designed "T" style PC cord (3 leads) allowing for easy flash connections between the meter, camera, and flash unit. Extra long, 15-foot length is compatible with all Sekonic flash meters .....**29.95**



EQUIPMENT LEASING AVAILABLE

# SP/SPECTRA/VISATEC/WEIN

## EXPOSURE METERS

### SP STUDIO SYSTEMS

#### SP PortaFlash (SPFM)

A compact, economical, and easy-to-use flashmeter, the SP Portaflash has an 8-stop range, f2.8 - f32 (with ISO 100 film), over/under range indicators, and cordless or cord triggering. Accurate to 1/3 stop. Also features Auto off battery saver circuit and low battery indicator .....**99.95**



### SPECTRA CINE

#### Spectra Professional IV-A

The Spectra IV-A is the most comprehensive, technologically advanced and reliable exposure meter for cinematographers, lighting designers, videographers and professional still photographers. Compact and user-friendly, it provides an easy, economical means of making highly accurate measurement of indoor and outdoor light levels. It measures footcandles, lux and instantly calculates Contrast Ratio, Averaging and can store up to 2 readings. Measurement results are displayed on an electroluminescent backlit custom LCD. It has

a digital f/stop range from f/0.35 to f/128 in 1/10 stop increments and an analog bargraph range from f/0.7 to f/45 in 1/3 stop increments. It includes a Spectra 1° Photospot that converts the meter into a high-sensitivity 1° spotmeter for narrow-angle reflected-light measurements. Readings are displayed in reflected f/stop or in footlamberts in luminance mode. Available in Black (SPSSB), Blue (SPSSBL), Green (SPSSG), Red (SPSSR) and Yellow (SPSSY) .....**1055.95**

#### Candela II/IIA

The Spectra Candela II is designed for simple one-handed convenience. Simply pressing one push button enables the light level to be measured and displayed on a easy to read digital LCD, which reads out directly from 0.1 to 70,000 foot candles and 1 to 100,000 lux; a range which encompasses illumination levels from dim indoor lighting to extremely bright sunlight. The Candela II can also store and recall up to two readings with the memory/recall function whereas Candela IIA can also measure foot candles, lux and instantly calculates Contrast Ratio, Averaging and can also store up to 2 readings. Measurement results are displayed on the electroluminescent back-lit custom LCD.

**Candela II (SPC2010EL) ....357.50** **Candela IIA (SPC2010ELA) ...412.50**

**Candela IIA with Detachable Head (SPC2010ELDHA) .....442.95**

**Candela IIA with Lowlight Sensor (SPC2010ELLSA) .....589.95**



### VISATEC

#### FM1000 - Flash Meter 1000 (VIFM1000)

The FM1000 is a basic flash and ambient light meter with a two-digit LED display. A two-digit LCD indicates light values. It offers a choice of four shutter speeds (1/60 to 1/500, can be used as a slave unit and has a push button memory recall.....**234.95**



#### DFM - Digital Incident Flash Light Meter (VIDFM)

The DFM is a digital incident flash meter with an exceptionally large measuring range of more than 14-2/3 stops. The DFM is well-suited for low capacity flashes as well as for very high capacity studio flash equipment. The 1/3 f/stop increments are easily readable on the large digital display. The measuring speed of the meter is a fixed 1/60th of a second. However, any ambient light present is also included in the flash measurement. When put into MULTI LOW or MULTI HIGH, any number of flashes of different intensity may be measured. The memory of the DFM will record each input of light and indicate the accumulation value on the display. There is a HIGH and LOW range of measurement which overlap by two f/stops. The horizontal lines on the display next to the number indicate either a 1/3 or 2/3 stop difference .....**467.50**



### WEIN

*These classic flashmeters remain as popular as ever. They are accurate, rugged, reliable and inexpensive. Still the best value around. Ideal for students, schools and studios. Operation is totally cordless. Designed for manual, non-TTL applications.*

#### WP-500B Standard (WEWP500B)

The Wein WP-500B Standard is an economical analog flash meter that reads incident flash light from electronic flash and integrates it with the ambient light to provide an accurate exposure light reading in direct f-stops up to f/22 (accurate to 1/3 stop). The reading is permanently recorded until the meter is manually reset.....**89.95**



#### WP-100 Deluxe (WEWP1000)

The WP-100 Deluxe utilizes all the features of the WP-500B, except the f/stop range is increased to f/90, and the meter readings are accurate to 1/6 of an f/stop .....**129.95**