





The Digital Photography SourceBook

Section 5

LIGHTING FOR DIGITAL

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For Section 5, Lighting For Digital,
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CLOUD DOME

Portable Lighting Studio for Digital 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 for larger format cameras. The standard 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.



Cloud Dome with Universal Standard Bracket Kit (CLCD)	149.95
Cloud Dome Pro Kit: Includes Cloud Dome, Universal Bracket (for digital cameras), Pro Bracket (for longer lens and SLR cameras), 7" straight extension collar, angled extension collar and Domicile Bag (CLCDK)	252.95

7" Straight Extension Collar (CLECS)

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

36.95

12" Straight Extension Collar (CDEC12)

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

41.50

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.....

41.50



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

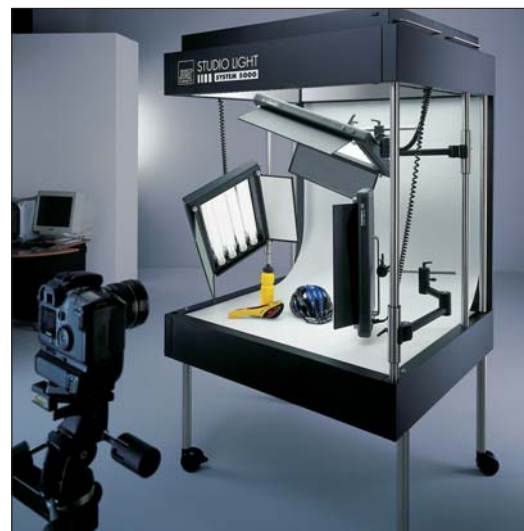
A mini studio that sets up quickly for lighting and shooting small objects. The matte finish of the included 18 x 28" Infinity Board allows photographing products with seemingly no background. The board may be used flat or adjusted into infinite U-shapes, is washable, and scratch proof. The two Flip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

With White Flexible Background (CLIBDLKW)	89.95
With Black Flexible Background (CLIBDLKB).....	89.95
With Gray Flexible Background (CLIBDLKG).....	89.95

STUDIO LIGHT SYSTEM 5000

The Studio Light System 5000 offers a complete solution for digital and analog photography. Fully equipped with compact design and large format flicker-free daylight quality, it is the ideal tool for "in house" photography. The entire studio offers the user a complete solution, quick set-ups and an efficient working environment. The studio is ready in minutes and completely equipped with three lamps that are variably adjustable on mobile support arms. The studio surface is equipped with dimmable transmissive lighting. Work surface height is 32 1/4". Complete studio includes three lamps (2/4/6 x 55w) and backdrop.

For those seeking a more compact solution, the Studio Light Compact 5000 is a complete studio light system in small format. Completely equipped with two daylight lamps (2x 36w) on mobile support arms, back drop, transmissive lighting. An optional third daylight lamp can be used to cast light on rear wall.



- ◆ Large surface light spread with constant daylight 5000 Kelvin quality.
- ◆ Suppression of upper wave frequency

- ◆ Absolutely flicker free due to new electronic ballast.
- ◆ Voltage fluctuation below 1%

- ◆ Electronic slide dimmer to regulate light intensity.

DTS/FS Compact Studio Light System (JU14514): Includes two 36w Fluorescent Fixtures with Barndoors, Jointed Arms, Plexiglass Shooting Table with 72e Built-in Base Fixture, Fluorescent Tubes (216 total watts)
Trolley Compact (JU64485): Trolley with rollers for Compact Studio Light.

Studio Light Fluorescent System 5000 (JU7492)
 Includes: 2- Dimmable, 1- Non-Dimming Fixtures with Barndoors, Lighted Dimmable Plexiglass Table Base with Legs, Jointed Grip Arms, 12 Fluorescent Tubes (804 total watts)



STUDIO LIGHT HF 5000

Just Normlicht has been known for its premium quality film and transparency viewers for many years. So in the digital revolution, it is only logical that they developed fluorescent lighting fixtures that emit low-heat, flicker-free daylight balanced light. Ideal light for digital photography, the fixtures provide a large surface light spread with constant daylight 5000 Kelvin quality. Absolute flicker free due to new electronic ballast.

The fixtures include two fluorescent tubes, jointed mounting arm and a 2-leaf barndoor set for lighting control. The fixtures may be attached to a light stand or ceiling mount. The 7450 and 7385 also have an electronic slide dimmer to regulate light intensity.

65052 (JU65052): HF5/SL 0 Studio Lamp (2 x 36w)CALL
7476 (JU7476): HF5/SL 1 Studio Lamp (2x 55w)CALL

7450 (JU7450): HF5/SL 2 DI Studio Lamp (4 x 55w).....CALL
7385 (JU7385): HF5/SL 3 DI Studio Lamp (6 x 55w).....CALL

Power Light HF 5000 (JU7419)

Part of the Studio Light System 5000, this model includes 24 55w 5000K tubes, 12 electronic ballasts, 4 barn door reflectors, and a heat exhaust fan. Designed to mount directly to the top of the Studio Light 5000 System (JU7492) to illuminate larger items or can be used as a separate ceiling light mounted with the silver support bars.



EGO

Digital Imaging Light

From Lowel, the Academy Award winning world leader in location lighting for film and video, comes a revolutionary tabletop fluorescent digital imaging light, the elegant and easy to use Lowel Ego. Now anyone can create great looking professional results in their home. Setup is a breeze, plug it in, place it on the table, and turn it on. The result is 5000° light output that's ideal for taking digital tabletop shots by collectors, arts and crafts hobbyists, sellers, archivists, and desktop publishers. Ego can also be used for DV talking head shots, digital still portraits, and webcam desktop video conferencing.

The Lowel Ego digital imaging light is ideal for shooting tabletop stills with digital cameras. It can also be used as a closeup portrait light for stills or video.

For increased versatility, it has a 1/4-20 screw thread in the base of the fixture to allow mounting the light on any conventional tabletop or full sized tripod.

Ego uses two custom 27-watt "full spectrum" screw-in fluorescent lamps, with an average life of 5,000 – 10,000 hours. Their daylight color output has a high color rendering index of 90+, for more accurate colors than conventional fluorescent lamps.



Ego Digital Imaging Fluorescent 2-Light 108-watt (120v) Kit:

Consists of 2 Ego Fixtures, Mounting Brackets, Light Stands, Bulbs (LOEDLK).....208.95

Ego Digital Imaging Fluorescent 2-Light 104-watt (220-240v):

Consists of 2 Ego Fixtures, Mounting Brackets, Light Stands, Bulbs (LOE2LSX).....208.95

Ego Digital Imaging Fluorescent 2-Light 108-watt (120v) Kit:

Consists of 2 Ego Fixtures, Ego Sweep, Bulbs (LOE2LS).....199.95

Impact Light Shed

Impact's Light Shed is a high-quality, translucent cloth material housing for photographing small and medium products that can be lit with daylight, HMI, electronic flash, fluorescent quartz and tungsten light sources. The Light Shed can be lit from the sides, top, back, front or can be placed on a shooting table for bottom illumination. It includes a removable white, and a black plastic base, offering alternative backgrounds.



- ◆ Lighting is made simple and efficient and takes less time than conventional lighting solutions.
- ◆ Complete portability in design with one-touch set up and breakdown.
- ◆ Full zipper front and zipper on top panel for digital camera lens positioning.
- ◆ Front panel peels back on all three sides for ease of positioning products inside.
- ◆ Includes storage bag

Digital Light Shed - X-Large - 24 x 24 x 36" (IMDLSXL).....108.95

Digital Light Shed - Large - 18 x 18 x 27.5" (IMDLSL).....108.95

Digital Light Shed - Medium - 15 x 15 x 23" (IMDLSM).....79.95

Digital Light Shed - Small - 10.5 x 10.5 x 13.5" (IMDLSS).....59.95

Lastolite Covelite

As all photographers are aware, highly reflective, convex subjects like chrome and glass are notoriously difficult to photograph. The Lastolite Covelite shooting tent can handle these items with ease. It is designed as a cove-like shape, and has a smooth coated interior so that it encloses the subject in soft, white reflections. The fabric is translucent so your lights can be placed outside of the Covelite and the exterior panels can be flagged off to put enhancing reflections onto the subject. Available in small, medium and large.



- ◆ Minimum of seams present are very subtle and carefully placed, so as not to interfere with the photograph.
- ◆ The tensioning bars pull out any of the creases present.
- ◆ Collapsible and portable.

Covelite Shooting Tent - Large - 30 x 20 x 38" (LACL).....318.50

Covelite Shooting Tent - Medium - 29 x 22 x 28" (LACM).....252.95

Covelite Shooting Tent - Small - 19 x 15 x 17.5" (LACL).....197.95

PHOTO E BOX

Integrated Imaging System

Now take quality picture to advertise your products. The worldwide leading manufacturer of product photography lighting systems, MK Digital lighting systems enhance the beauty of jewelry, gifts, collectibles, eBay products, and forensics. Plus, producing it yourself saves time and money. Ideal for anyone who needs to have photographs of small objects produced quickly, easily, and without a degree in photography, the Photo E-Box is a unique constant-light system that surrounds very small objects such as jewelry and crafts with daylight-balanced, even illumination. The Photo E-Box looks like a microwave oven, and takes up a fraction of the space of a conventional shooting table with lights. The shooting platform is 10 x 13.5" An opening in the top and the front allow use of different camera angles. Simply position the item(s) and camera, then shoot. An optional LED lamp is available, for top-lighting, to add sparkle to stones in jewelry.



FEATURES

- ◆ Internal lights save space and set up time. One switch to turn on/off all the lights at once.
- ◆ Cool-running, long-lasting fluorescent tubes are easily replaced using a Philip's head screwdriver.
- ◆ Door with oval shape hole with a sliding curtain is included that allows you to shoot pictures through it by using an external table top tripod. With this advantage you'll get beautiful pictures at different perspectives from the item being photographed.
- ◆ Includes universal "L" bracket to hold almost any camera at the top of the box giving you straight to bottom use.
- ◆ A special magnetic bracket allows you to take pictures form the top and the side at different angles.
- ◆ Connect your camera to your computer and take pictures while previewing them on your computer monitor.
- ◆ Bundled Media Browser software helps you to keep track of your images, arrange slide shows, update your website, and print catalogs.
- ◆ Optional accessory kit eases positioning of jewelry.

Benefits:

- ◆ Photograph your products and print your own catalogs quickly and economically
- ◆ Maintain your website or update your catalog in-house
- ◆ Keep a photographic database of all your products
- ◆ Send your new products in seconds to your clients and distributors via e-mail

E Box Systems

Gem E Box Fluorescent, Tungsten and LED Lighting Kit:

Includes: 7.5 x 7 x7" Interior with Bottom and 2 Side Lighted Panels, Universal Camera "L" Bracket, Catalog Producer Software (MKGEB)**389.95**

E-Box Basic Fluorescent Lighting Kit:

Includes: 10x13.5" Surrounded Platform, Lamps, Camera Brackets, Browser Software (MKMKP)**698.95**

Photo E-Box II Basic Fluorescent Lighting Kit:

Includes: 10 x 13.5" Surrounded Platform, Lamps, Brackets, Browser Software (MKMKPEB2)**824.95**

Photo E-Box Plus Fluorescent and Tungsten Lighting Kit:

Includes: 10 x 13.5" Surrounded Platform, Lamps, Camera Brackets, Accessories, Browser Software (MKMKPEBP)**998.95**

E-Box Plus 1419 Fluorescent and Tungsten Lighting Kit:

Includes: 10 x 13.5" Surrounded Platform, Lamps, Camera Brackets, Accessories, Browser Software (MKMKPEBPQ)**1493.95**

BOX II Deluxe Fluorescent Lighting Kit:

Includes: 15x15" Surrounded, Translucent, Motorized Tilting Platform with Remote Control, LED Goosneck Lamps, Camera Bracket, Sliding Rail, Jewelry Stands, Browser Software (MKMKTB)**2698.95**

ML700 Super Bright Mini LED Lite

Perfect for accenting the stones of any jewelry piece, for display, presentation, or photography. It emits an pinpoint, daylight balanced light. It can be dimmed, to just the right level for each application. (MKML700).....**612.50**

20 C-2



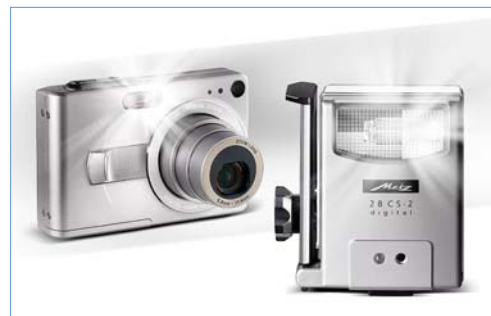
Auto/Manual Compact Shoe Mount Flash

The 20 C-2 Auto Flash is a compact automatic flash unit, intended for beginners with non-AF cameras, who are looking for an effective and inexpensive way to enhance lighting. It features a manual full power mode, and 2 auto-working apertures modes (f/5.6 and f/2.8). In addition, the 20 C-2 features a tilting head. This allows for flash head bounce operation, which helps to soften harsh shadows resulting from direct flash illumination. Up to 150 flashes at full power, with use of NiMH batteries. Guide Number 66 at ISO 100/21° (35mm).

20 C-2 Auto/Manual Compact Shoe Mount Flash (ME20C2)52.95

28 CS-2 Digital Slave Flash for Digital Cameras

Are you often disappointed about dark photos because the flash integrated in your camera was not powerful enough? Do you want a handy compact flash unit that can be used separately from the camera? Metz offers the perfect solution with the 28 CS-2 digital - optimally adapted in performance and size to compact digital cameras. The fun factor is enhanced with the self-learning slave mode and the ingenious EASY-Mode. For the very first time the flash shot taken can be directly influenced with the instant correction keys (+/-). Simply release the shutter, check the result on the camera's monitor, and correct with the keys should this prove to be necessary.



- ◆ State-of-the-art, compact slave unit using Metz's exclusive "easy mode" technology to automatically fine-tune the flashgun to the specific camera's requirements.
- ◆ Slave function ignores red-eye and monitors preflashes.
- ◆ Designed for use with cameras that do not feature an integral hot shoe and has a built-in bracket that allows the unit to be attached to the side of the camera.
- ◆ With this slave model the flash power can be boosted without any undesirable side-effects.
- ◆ The power is generated by AAA alkaline or rechargeable AAA batteries.
- ◆ Includes bracket, 24mm wide-angle and 85mm telephoto attachments

28CS-2 (ME28CS2)129.95

28 AF-3 DIGITAL Digital TTL Shoe Mount Flash



You have an important moment—a garden party, wedding, child's birthday or a luxury cruise—yet because of a weak pop-up flash, the photos often turn out to be disappointing. Sometimes faces are too dark because of the high contrasts between light and shadows. And then the colors are too flat because the camera's internal flash was just not powerful enough. Designed to optimally match the latest compact digital cameras, the small, clip-on high-tech 28 AF-3 digital is the answer. It is fully automatic and is so handy that it will easily fit in your jacket pocket. Power can be supplied either by AA alkaline or rechargeable batteries. Available in four dedicated versions.

- 28AF-3C Digital TTL Shoe Mount Flash for Canon E-TTL AF (ME28AF3C)129.95
- 28AF-3M Digital TTL Shoe Mount Flash (for Minolta with ADI TTL (ME28AF3M).....129.95
- 28AF-3N Digital TTL Shoe Mount Flash for Nikon i-TTL AF (ME28AF3N)129.95
- 28AF-3O Digital TTL Shoe Mount Flash for Olympus Digital TTL (ME28AF3O)129.95

36 C-2

Auto Slave/Manual Shoe Mount Flash

Those who are looking for a precise automatic flash unit will be well served by the 36 C-2. It features three different auto-working apertures (f/8, f/4, f/2 at ISO 100/21°), and the integrated zoom reflector can be manually adjusted to the given focal length (between 28 and 85mm). The reflector can be tilted in a vertical direction 90°.

- ◆ 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



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.

44 MZ-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 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 (Sony), matrix- controlled fill-in flash and under-exposure indication by way of aperture (Nikon).

- ◆ Guide Number 111 at 50mm, 144 at 105mm
 - ◆ Correct exposure indicator
 - ◆ Pre-flash function to prevent red-eye effect
 - ◆ Power Zoom automatically adjusts the flash reflector to the corresponding lens focal length (with the SCA-3002 adapter).
 - ◆ 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.
 - ◆ 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.
 - ◆ 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).
 - ◆ Flash ready indication, plus control display in the camera viewfinder.
 - ◆ Wake-up function switches the flash on after a break just by tapping on the release button.
 - ◆ Automatic cut-off saves energy if you've forgotten to turn off the flash, or during longer periods between usage.
 - ◆ 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.
- 44MZ-2 (ME44MZ2): With hot shoe table stand274.95



36 AF-4C

Digital Compact Shoe Mount Flash

Designed for Canon digital cameras, the 36 AF-4C offers high-precision E-TTL exposure accuracy and is a great value for the money. Furthermore, 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 also features an automatic cut-off and correct exposure indicator.

- ◆ Guide Number is 118 with ISO 100/21° and maximum zoom
- ◆ Autofocus measuring flash control
- ◆ 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
- ◆ Pre-flash function to prevent red-eye effect
- ◆ TTL fill-in flash control
- ◆ 5-second recycle time



36AF-4C AF E-TTL II Shoe Mount Flash for Canon EOS (ME36AF4C).....144.95



44 AF-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 Maxxum189.95

44 AF-4 (ME44AF4CAF): With hot shoe table stand for Canon EOS189.95

44AF-4I (ME44AF4IND): With hot shoe table stand for Nikon AF.....189.95

54 MZ-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 ± 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 (ME54MZ4CAF) For Canon EOS.....	399.95	54MZ-4 (ME54MZ4MAF) For Minolta Maxxum.....	389.95
54MZ-4i (ME54MZ4ND) For Nikon i-TTL.....	359.95	54MZ-4 (ME54MZ4PAF) For Pentax AF.....	399.95

58 AF-1

Digital TTL Dedicated Shoe Mount Flash

The 58 AF-1 TTL dedicated shoe mount flash is designed to be compatible with all digital cameras, both current and future models. To better facilitate compatibility with current and future cameras, it features a built-in USB port that allows for future firmware updates via the internet. Ideal choice for professional photographers, it also includes state-of-the-art secondary reflector technology, high-performance power management, newest-generation multi-zone AF metering flash, and a full vertical tilt reflector system.

- ◆ "Cobra Design" flash reduces the redeye effect.
- ◆ Autozoom head can cover from 24 to 105mm, and 18mm 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.
- ◆ Wireless full TTL triggering.
- ◆ E-TTL Evaluative preflash metering and stroboscopic modeling light for previewing effect.



58 AF-1 (ME58AF1C)
For Canon E-TTL II**359.95**

58 AF-1 (ME58AF1N)
For Nikon i-TTL**329.95**

45 CL-4 DIGITAL

Handle-Mount Flash

The 45 CL-4 Digital is powerful flash featuring cutting-edge charging technology, and a GN of 148 (ft.) at ISO 100/21° and 35mm focal length. Features a 28mm wide-angle diffuser and 6 auto working apertures, offering greater versatility and adaptability for any user. For added versatility, the flash boasts a secondary reflector and shooters can operate the flash in TTL, Auto or Manual mode. The reflector's vertical and horizontal tilt and swivel abilities can also be used for indirect flash lighting. With the SCA adapter system, interfaces with today's most advanced metering technologies, including Nikon's i-TTL and Canon's E-TTL.

- ◆ Flash ready and correct exposure indicator
- ◆ Automatic and manual flash modes
- ◆ Includes a wide angle attachment
- ◆ 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.
- ◆ 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).



45CL-4 Digital TTL Handle Mount Flash Kit:

Includes NiMH Battery Cluster, Charger, W/A Adapter, 15" PC Cord and Quick Release Bracket (ME45CL4DNM).....**650.00**

76 MZ-5 Digital Handle Mount Flash with Auto Zoom Head:

Includes NiMH Battery, Charger, Controller Unit, Quick Release Camera Bracket, 20mm W/A Diffuser (ME76MZ5).....**899.95**

76 MZ-5 DIGITAL

Metz has redefined the parameters of professional flash photography. With a max guide number of 249 feet, the 76 MZ-5 Digital offers unbeatable light performance. It features multiple shooting modes, twelve working apertures, primary reflector (tilt 90°/swivel 360°) and a secondary reflector. All menu settings can be activated from the flash itself, and a lock function means you won't accidentally change fixed values. Lasting flash performance is ensured by the NiMH rechargeable battery and charger. Easy-to-read LCD lets users identify flash settings before each shot. Reflector automatically adapts to a focal length range of 24-105 mm depending on the type of camera. Supplied wide-angle diffuser, enables expansion to 20mm.

Step-up features from the 45 CL-4 Digital—

- ◆ Automatic focal length adjustment (power zoom reflector control)
- ◆ Modelling light allows you to judge the illumination.
- ◆ Extended zoom lets you set the illumination angle at one level higher than the zoom setting on the camera.
- ◆ Power Zoom automatically adjusts the flash reflector to the corresponding lens focal length (with SCA-3002 adapter).
- ◆ Stroboscope mode for flash sequences in selectable intensity, frequency and number of flashes (used for effect exposures and movement studies).
- ◆ Flash bracketing by TTL and automatic flash mode (± 3 apertures in one-third steps).
- ◆ LCD display indicates the settings and adjustments that should be/have been taken.
- ◆ Key Function locks the operating settings to protect against unintended adjustments
- ◆ 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.
- ◆ A buzzer goes off if there is an incorrect adjustment, or to signal flash readiness.
- ◆ Rear sync on the second shutter curtain for natural blur effects.



FLASH ACCESSORIES

Sync Cables

MZ-5521 (ME5521):
12" coiled (extends to 3') PC cable connects the 45CL-4 to sync terminal**19.95**



MZ-5525 (ME5525):
3' straight PC cord connects the 45CL-1/4, and 60CT-4 to sync terminal**19.50**

MZ-5530 (ME5530):
PC extension cord. It attaches to a standard PC cord and extends its length by 15'**22.95**

MZ-5534 (ME5534):
12" coiled PC Cord with a sub-mini end, extends to 3'**24.95**

MZ-5548 (ME5548):
12" straight PC cable with sub-mini end connects 36 C2, 44 MZ-2, 54 MZi-4 and 76 MZ-5 to sync terminal.....**16.95**

MZ-5549 (ME5549):
9' straight PC cord for 45CL-1/4, 45C-T3/4 and 60CT-4 (Replacement).....**14.50**



Misc. Accessories

NiMH

Rechargeable Battery for 76 MZ-5 and 70 MZ-5 (Replacement) (ME57656)**124.95**

B-46 NiMH Battery Cluster Kit for 45 Series Flashes - with Universal Charger (ME50129)142.95

50-23 Bounce Diffuser for the 76 MZ-5 (ME5422)64.95

44-90 Bounce Soft Diffuser for the 44MZ & 54MZ Series (ME54490)22.95

54-23 Bounce Card for the Metz 44MZ & 54MZ-Series (ME55423)59.95

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

Replacement

Quick Release Bracket (ME5512)
For 45, 50 and 60 Series flashes.....**29.95**

45-27 Wrist Strap for the 45 Series Flashes (ME5466) 29.95

P76 Power Pack

The P76 Power Pack combines faster recycling times with safe, reliable operation. It effortlessly attaches to the photographer's belt and provides up to five times more flashes than other batteries. It also guarantees a significant reduction in recycle time between uses. 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.



P76 NiMH Power Pack with Charger for 76MZ-5, 70MZ-5, 58 AF-1, 54 MZ-4i, 45-CL-4 Digital (requires power cord) (ME53129)**488.95**

V-76 Power Cord: To connect 76 MZ-5, 70 MZ-5, 50 series and 45 CL-4 Digital (MZ5376) ...**49.95**

V58 Power Cord : To connect the 58 AF-1 flash to P76 Power Pack (MZ5850).....**36.95**

SCA 3002 Adapters

With the Metz SCA-3002 adapter system, the 45 CL-4 (with the SCA-3045 connection cable) and the 76 MZ-5 Digital can interface with today's ever advancing metering technologies, including Canon's E-TTL, Nikon's i-TTL and Sony/Minolta ADI flash control. In addition, the universal SCA adapter system creates a decisive advantage: the same flash unit can be used with a range of cameras.



MZ-53102 (ME53102): SCA-3102 for Canon EOS. Supports E-TTL, 2nd curtain sync.....**82.95**

MZ-53302 (ME53302): SCA 3302 for Minolta AF (Sync and TTL).....**82.95**

MZ-53402 (ME53402): SCA 3402 for Nikon cameras (Sync and TTL)..... **82.95**

SCA-3083 Digital Slave Adapter

The photographer of today has to have both digital and film cameras in their bag of tricks. Obviously, it would be ideal to have a flash unit that is compatible with both camera types. This is where the "SCA 3083 digital" slave adapter comes to the rescue. This adapter has a vast adaptability range, allowing the current range of Metz SCA flash units to be used with cameras, film or digital, with or without hot shoe connection. Three slave functions are available.

Convenient - Cordless TTL or auto flash control:

In this case nothing has to be set on the slave flash unit. A controlling Metz flash unit on the camera controls one or several external slave flash units in the cordless mode.

Individual light control with slave flash function:

The slave flash with "SCA 3083 digital" adapter offers the photographer the maximum creative freedom. The required output of the slave flash can be manually set for targeted light levels to achieve specific effects or to brighten up dark areas in the picture. The controlling flash unit can be used in automatic or manual modes.

Slave flash function with preflash suppression:

Digital cameras without any hot shoe and operating with a pre-flash function. The SCA 3083 with a special lag-time circuit built into it will help the Metz flash fire with the main flash and not fire on the preflash of the camera.

SCA 3083 Dedicated Slave Module for all Digital Cameras (ME53083)**59.95**

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 case524.95

Flat Flash Panel (NOFPG): With case and Generator.....879.95

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.....229.95



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 Flash379.95

The following interchangeable adapters are available:

TTL Adapter for Canon (NOATLGC)86.95	TTL Adapter for Nikon (NOATLGN)86.95
Adapter for Canon EOS Cameras (NOAAFCC)119.95	AF Adapter for Nikon Cameras (NOAAFNG)119.95
TTL Adapter for Contax (NOATLGCQ).....86.95	TTL Adapter for Olympus (NOATLGO)84.95
Adapter for Minolta Cameras (NOAAFMM).....119.95	TTL Adapter for Pentax (NOATLGP)84.95
AF Adapter for Minolta 5000, 7000 and 9000 (NOAAFMM5000) ..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 (NORFPP)497.50

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 (NOBP): 10 x 1.6 x 3.1", weighs 8.1 oz. (This is the same base plate used by the Duo Flash Holder, and both the Vertical and Horizontal Extension Sets)129.95

Grip (X-GRIFF): With handstrap but no ball head, weighs 5.6 ozCALL

Ball and Socket Head (NOMBFS): With flash accessory shoe, weighs 2.1 ozCALL

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)

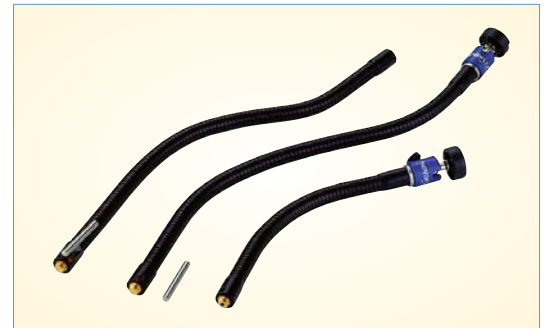
Rigid grip extension to achieve increased height of the flash by 8". Weighs 1.5 oz.....39.95

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 oz52.95

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 oz74.50

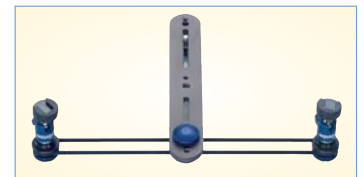


Duo-Flash-Holder (NOHDF)

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.



Measures 14.2 x 1.6 x 3.2" when dismantled for storage, weighs 13 oz.209.95



FLASH SUPPORT

Extension Set Horizontal (NOUW)

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" length54.95



Extension Set Vertical (NOUS)

Vertical Extension of the Vario sliding rod systems to vary mounting height of flash units. Weighs 3.5 oz, 10" length54.95

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 Shoe39.95

OTHER USEFUL GADGETS FOR FLASH PHOTOGRAPHY



Large Clamp for Reflector Panel (NOCRCP):

Clamp with strong spring to hold flat objects, with 1/4" socket67.50

Mini Clamp for Staset (NOC SX):

A small, strong clamp with a 1/4" socket25.95

6 x 8" Screen (MIRROR):

Weighs 7.2 ozCALL

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

Reversible Reflection Screen (NORS812WG):

Reflection screen 8 x 12" white-gold.....34.95

Reversible Reflection Screen (NORS812BG):

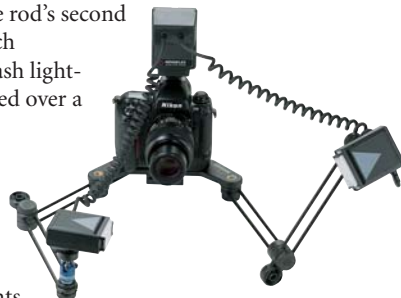
8 x 12" black-grey.....36.95



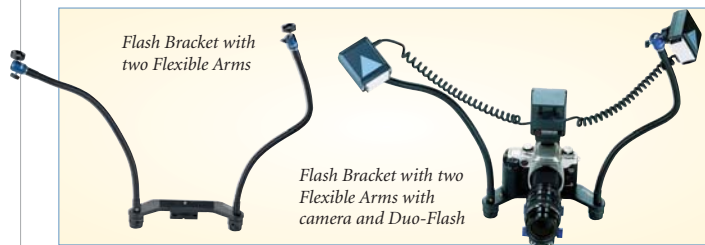
Flash Bracket with Adjustable Rods (NOFBS)

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.....235.95



Flash Bracket with two Flexible Arms (NOFBA2)



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.....239.95

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.....74.95

Flexible Arm (NOA): Same as above, but with an 18" arm74.95

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"129.95

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.....197.50

PF20XD

Auto/Manual Digital Slave Flash

Ultra-compact slave-trigger flash that comes with different slave-modes so that it's compatible with almost any digital compact camera. It is compact enough to easily fit into your jacket pocket. The unit is designed for use with cameras that don't have a hot shoe and includes a bracket that allows it to be attached to the side of the camera.



The PF20XD is designed to cover the normal focal length of 24mm (in 35mm format). It works as a slave flash with three automatic f-stops (f/2.8, f/4, f/5.6 at ISO 100), or can be controlled by manually cutting back on the power output (1/4, 1/8, 1/16 and 1/32).

Ideal for "point-n-shoot" style digital cameras.

- GN of 65 (feet @ ISO 100) ensures it can reach well beyond built-in camera flashes, which means shots can be taken at greater distances with the correct exposure.
- With two slave settings, single and pre-flash, the PF20XD always fires at the right moment.
- Built-in slave allows it to be triggered by hot shoe or slave
- Recycle time is 9 seconds; runs on two AAA batteries

PF20XD Auto/Manual Digital Slave Flash (SUPF20XD)**69.95**

FP30X

Electronic Flash for Digital SLR Cameras

The PF30X is a lightweight, but high-featured shoe mount flash compatible with the latest digital SLR cameras.

Robust functions such as EV adjustment function and bounce function are condensed in a compact and stylish body. Straightforward button layout and intuitive operability ensure comfortable operation. Offers bright, easy-to-read and use indicators and controls, autofocus assist for low-light shooting out to 16', bounce flash head with 90° range, auto power zoom with manual override.



• Guide Number 100, ISO 100/Feet@35mm zoom

- Pre-flash capable, camera controlled
- Power saving standby mode
- Manual power ratio from full to 1/16 power
- Recycle time is 10 seconds; runs on two AA alkaline, NiMH or Nicad batteries
- Light volume can be easily changed with the EV adjustment buttons (seven steps, up to +/-1.5EV).

PF30X TTL Flash for Nikon i-TTL cameras (SUPF30XN).....**109.95**

PF30X TTL Flash for Canon E-TTL II cameras (SUPF30XC)**109.95**



PZ40X-II

Electronic Flash for Digital SLR Cameras

Available in silver or black, the PZ40X-II 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 i-TTL and D-TTL (Nikon) and ADI (Sony/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 i-TTL and D-TTL for Nikon and ADI for Sony/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 Sony/Minolta cameras. For other cameras, manual zoom mode and power ratio mode will give you a big help.
- ◆ Flash-coverage scale on LCD screen
- ◆ Power ratio can be manually set in five steps (full, 1/2, 1/4, 1/8 and 1/16)
- ◆ 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-II (SUPZ40X2SN): For Nikon AF (Silver)**169.95**

PZ40X-II (SUPZ40X2BN): For Nikon AF (Black)**169.95**

PZ40X-II (SUPZ40X2SC): For Canon AF (Silver)**169.95**

PZ40X-II (SUPZ40X2BC): For Canon AF (Black)**169.95**

PZ40X-II (SUPZ40X2SM): For Sony/Minolta AF (Silver)**169.95**

PZ40X-II (SUPZ40X2BM): For Sony/Minolta AF (Black).....**169.95**

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	89.95
MZ-440AF (SUMZ440NAF): For Nikon AF	89.95
MZ-440AF (SUMZ440MAF): For Minolta AF.....	89.95
MZ-440AF (SUMZ440PAF): For Pentax AF.....	89.95

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 (SU4000AFCAF): For Canon AF.....	109.95
PZ-4000AF (SU4000AFNAF): For Nikon AF.....	109.95
PZ-4000AF (SU4000AFMAF): For Minolta AF.....	109.95



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

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.....CALL

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.....199.95



Auto
544

622
Super Pro

622 SUPER PRO *System Accessories*



- 1) Zoom Flash Head (SUFHZ622)49.95
- 2) Bare Bulb Flash Head (SUFHBB622).....99.95
- 3) Diffused Flash Head (SUFHD622)42.95
- 4) Ringlight Flash Head (SUFHRL622)79.95
- 5) CG-10 Battery Cartridge (SUCG10):
Holds 4 nicad or alkaline "C" size batteries.....28.95
- 6) QBC-6 Quick Charger (SUQBC6):.....64.95
- 7) CL-3 Nicad Battery Cluster (SUCL3):62.95
- 8) 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 source12.50

CL-2 Nicad Battery Cluster (SUCL2)
For use with Auto 544/555, the CL-2 provides up to 400 flashes when charged. Recharges in 3 hours via the QBC-534.95

QBC-5 Quick Charger (SUQBC5): For CL-2 and NC-510 batteries ..29.95
AD-26 100-240v, 50/60Hz AC Adapter (SUAD26) For use with the 544, 555 and 622 Handle Mount Flashes.....32.95



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
- ◆ TTL, auto and manual control
- ◆ Power ratio—full to 1/64th power

- ◆ Accepts TTL and dedicated modules
- ◆ Has ultra-diffused Opal lens

D-Macro (SUDRLF)
With STD-1D module269.95

DIGITAL FLASHES

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 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**

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.
- ◆ Dual sensitive slaves ensure synchronization with other strobes.
- ◆ Portable and lightweight.
- ◆ Rear control panel offers full control over flash and modeling light output.

DigitFlash 500 (SUMDF500)**488.95** **DigitFlash 1000** (SUMDF1000).....**659.95**

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.

DigitFlash 600 (SUMDL600).....**374.95**

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)

FP-38 Flat Panel Flash Kit (SUF38): Includes sync cord and 4 AA batteries**74.95**
Flash Grip and Extension Arm (SUMCEFFGEA).....**44.95**

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)19.95

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 8¾".

MidiBouncer (LUMB)23.95



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)21.95

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)22.95



FLASH ACCESSORIES

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 8¼"

Barndoors (LUBDPB)22.95

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 5¾" x 7¼"

Snoot (LUS)22.95

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)18.95



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 10¾"

Big Bounce (LUBB)31.95



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 (LUB)14.95



Soft Screen

The LumiQuest Soft Screen Diffuser is designed to soften the light output of the built-in pop-up flash of many SLR cameras. Attaches in seconds, the screen softens harsh shadows and reduces hot spots. Fits most digital cameras, Folds flat to approximately 4 x4".

Soft Screen (LUSS)12.95



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.

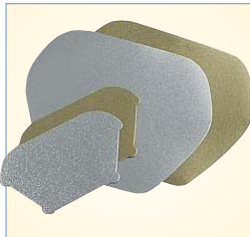
Table-Top Reflector System (LUTTRK)71.95



FLASH ACCESSORIES

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).....14.95

Metallic Inserts for Pocket Bouncer and Ultrasoft (LUMIPB)11.95

LIGHT LOSS

	Silver	Gold	
Pocket Bouncer		2/3 stop	1 stop
80-20		2/3 stop	1 stop
Ultrasoft	1-2/3 stops		2 stops
Big Bounce	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 3¼" x 4½".

Mini SoftBox (LUSBM).....19.95



◆ Light Loss: Approximately 1¼ stops ■ Dimensions: Folds flat to 5" x 7"

SoftBox (LUSB).....29.95



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.

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 1¼ stops.
◆ Dimensions: Folds flat to 6¼" x 7¼"

SoftBox II (LUSB2)30.95



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.

◆ 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)47.95



FLASH ACCESSORIES

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 3/8" x 4 3/4"

FX Color Gel System (LUFXCGS)28.95

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 1/2 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 stop.

Frosted Diffusion Screen:

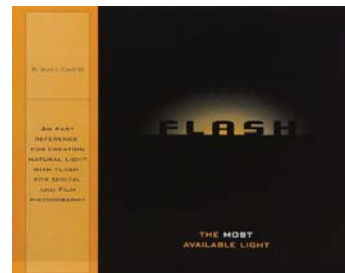
Ideal for close-ups and portraits. Approximate light loss with White Insert is 2 1/2 stops; with Gold Insert 2 stops; and with the Silver Insert 1 1/2 stops.

ProMax Accessory Kit (LUAKPM)30.95

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

Gary Fong Lightsphere II Inverted Dome Diffusion System

All other diffusers "point" the light forward like a flashlight. Lightsphere is the only diffuser that lights up the entire room, softening your images tremendously. The inside of the Lightsphere is completely textured to make the light dispersion even more "soft" than it would be otherwise. And because of this design, it is possible to make the material more translucent, keeping the unit from losing a lot of light while actually increasing the diffusion and softness of light. The included inverted dome allows you to softly diffuse direct light with a large, soft source without creating flare on the front of your lens. On the frosted versions, an opaque color has been added to the inside of the Cloud version, and this "frosted" version creates an even softer effect, which makes it ideal for close-ups, portraits, and event photography. The clear version is ideal for fast action, large groups and dimly lit scenes.



Lightsphere II Inverted Dome Flash Diffusion Cloud System (Frosted)

C1 - for Canon 420EX, Nikon SB-50DX, SB-600, SB-800 & SB-80DX, Pentax 330FTZ & AF500FTZ, Sigma 420 & 430, Sunpak 4000AF (GALCC1F)..... **49.00**

C2 - for Canon 299, 540EZ & 550EX Minolta 5600, Pentax AF500FTZ (GALCC2F).....**49.00**

C3 - for Canon 380EX, 420EZ & 430EX, Metz 54MZ-3/4, Minolta 3500xi, 5200, 5400, Nikon SB-24, 25, 26, 28, 28DX, Olympus FL40 and FL50 (GALCC3F).....**49.00**

C4 - for Canon 580EX, Sony HVL-F32X & Vivitar 730AF (GALCC4F).....**49.00**

Lightsphere II Inverted Dome Flash Diffusion Cloud System (Clear)

P1 - for Canon 420EX, Nikon SB-50DX, SB-600, SB-800 & SB-80DX, Pentax 330FTZ & AF500FTZ, Sigma 420 & 430, Sunpak 4000AF (GALP1C)**49.00**

P2 - for Canon 299, 540EZ & 550EX Minolta 5600, Pentax AF500FTZ (GALP2C).....**49.00**

P3 - for Canon 380EX, 420EZ & 430EX, Metz 54MZ-3/4, Minolta 3500xi, 5200, 5400, Nikon SB-24, 25, 26, 28, 28DX, Olympus FL40 and FL50 (GALP3C) ...**49.00**

P4 - for Canon 580EX, Sony HVL-F32X & Vivitar 730AF Flash Units (GALP4C).....**49.00**

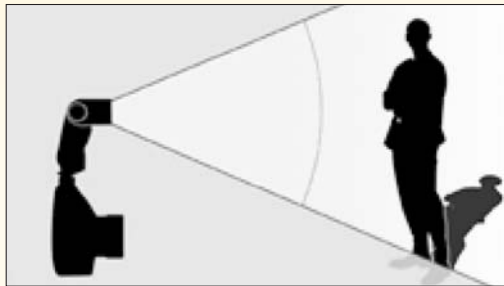
OMNI-BOUNCE

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-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

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

CAMERA & FLASH BRACKETS



Unlike conventional brackets, the Digital Pro M is designed for you to hold the camera rather than the bracket, for a more natural way of shooting. Designed to fit all digital SLR cameras, the Digital Pro M has a semi-circular track with a camera platform which slides quickly to switch from horizontal to vertical using easy to rotate roller bearings. Spring detents lock the platform securely in either position, but just a good nudge lets you switch camera orientation. For studio use, the Digital Pro-S system (without flash holder) is available.

- ◆ Professional looking design
- ◆ Easy to rotate using roller bearings from horizontal to vertical
- ◆ Anodized black aluminum for lightweight and strength
- ◆ Comfortable foam grip
- ◆ Adjustable flash height with tilt for eliminating red-eye and shadows
- ◆ Fits in camera bags
- ◆ Holds accessories (radio slaves, focusing lights, etc.) via optional bracket accessory adapters
- ◆ Stands upright - protecting the camera and flash
- ◆ Base is ready for tripod quick-release
- ◆ Easily switch camera/flash from system to system

Digital PRO-M Kit (CUDPMK): Includes Digital PRO-M, CMP, FCN, and QR. 7-7/8 x 10 x 2-3/8" (HxWxD) in storage position), weighs 21 oz.**379.95**

Digital PRO-M Bracket (CUDPM): Lightweight, fold in legs and upright for storage, grip on left side. 7-7/8 x 10 x 2-3/8" (HxWxD) in storage position. Weighs 21 oz.**279.95**

Digital PRO Bracket (CUDPB): Lightweight, fold in legs and upright for storage, grip on right side. 7-3/4 x 8 x 4" (HxWxD) in storage position), weighs 21 oz.**269.95**

Digital PRO-SV Kit (CUDPSVK): Includes Digital PRO-SV, CMP and QR. 7-1/4 x 5 x 1-3/4" (HxWxD), weighs 11 oz.**259.95**

Digital PRO-SV (CUDPSV): Studio version (rotation bracket only, no flash mount. 7-1/4 x 5 x 1-3/4" (HWD), weighs 11 oz.**189.95**

QRS-H2 (CUQRSH2): Non fold up version, handle on left side. 14-3/4 x 8 x 7" (HWD), weighs 27 oz.**199.95**

QRS-E2 (CUQRSE2): Non fold up version, extended version for infrared modules, handle on left side. 14-3/4 x 8 x 7" (HWD), weighs 28 oz.**209.95**

If not ordering a kit, you need to order the CMP Camera Mounting Plate, a flash mounting plate and accessories (next page) to complete your system

CMP Camera Mounting Plate



The CMP is the only camera mounting plate available which is reversible to accommodate all Canon, Nikon and Fuji cameras. Exclusive to the CMP is an adjustable camera screw for precise positioning to take full advantage of all anti-twist features. Two adjustable anti-twist posts are included for cameras without vertical grips or battery packs. These posts have plastic crowns to protect the camera body.

CMP Camera Mounting Bracket (CUCMP) 49.95

Flash Mounting Plates

F35-C (CUF35C)

For Canon Off Camera Shoe Cord 2.....**26.95**

FC-N (CUFCN)

Anti-Twist Flash Mounting Plate for all Canon and Nikon Off-Camera TTL flash cords...**29.95**

F35-N1 (CUF35N1)

For Nikon SC-17, SC-28 and SC-29 Off-Camera TTL flash cords)**21.95**

FL (CUFL)

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

FM (CUFM)

For Metz MZ-50 and MZ-70/MZ-76 (barrel type), not for QRS-H2**28.95**

FN (CUFN)

For Norman heads with 1/4"-20 thread....**19.95**

FQ-1 (CUFQ1)

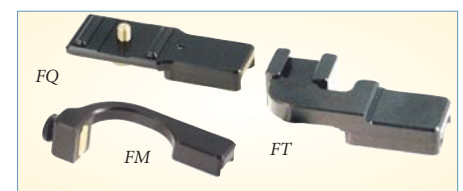
For Quantum Q Flash T4D/T5D.....**24.95**

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**



CAMERA & FLASH BRACKETS

Bracket Accessories

AP - Accessory Plate (CUAPQ): The AP accessory plate attaches to the upright of the QRS Series brackets, allowing you to use Radio Slaves, TTL Modules, Focusing Lights or any other items with 1/4"-20 screw threads.19.95

AP-1 - Accessory Plate (CUAP1): The AP-1 accessory plate attaches to the upright of the Digital PRO Series brackets, allowing you to use Radio Slaves, TTL Modules, Focusing Lights or any other items with 1/4"-20 screw threads.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

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 camera39.95

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-3549.95

QR-C Kit - Tripod Quick-Release (CUQRCK): The QR-C Kit includes the QR-C Camera Quick Release and C-SP Subplate. This system will allow you to quickly mount different camera makes and models (with different heights) to your bracket. The C-SP camera quick release subplate attaches a C35 camera plate to the QR-C Camera Quick-Release.58.95

CBP (CUCBP): Camera to Tripod Quick Release Bottom Plate for CMP Plate, when Used with QR-C and QR29.95

TCP Quick Release Plate (CUTCP): Compatible with the QR quick release system. This makes it possible to slip the camera easily into a QR clamp mounted on a tripod or monopod. The plate comes with an adjustable 1/4"-20 camera screw and features large anti-twist pins. 44.95

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-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



CB Series Brackets & Accessories



- Professional looking design
- Easy to rotate from horizontal to vertical
- Anodized black aluminum for lightweight and strength
- No adjustments needed—designed maintenance free
- Adjustable flash height for eliminating red-eye and shadows (CB Junior)
- Comfortable foam grip
- Balances camera using a fold out leg (CB Junior)
- Reversible for preference—left or right hand grip (CB Digital -T)
- They include camera mounting screw, cork base pads, flash mounting knob for flash and flash cords

CB Series Flash Rotating Bracket :

- CB Junior 7-1/8" High (CUCBJ)89.95
- CB Digital -T 9-1/2" High (CUCBDT)59.95
- CB Digital -S 8-1/8" High (CUCBDS)49.95

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 Series flash rotation bracket.....16.95

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	41.95	QUXi5 Module Type i5	41.95
QUXB2 Locking Module	41.95	QUXCX Power Cord f/Contax 645....	31.95
QUXB5 Module Type B5	41.95	QUXKZ3 Locking Module.....	52.95
QUXK6 Module for Nikon SB-600 ...	44.95	QUXVI Module Type VI.....	52.95
QUXE Module Type E.....	41.95	QUXZ2 Locking Module	52.95
QUXE3 Module f/Metz 32Z series....	52.95	QUQBO Offset Multi-Bracket.....	25.95
QUXE4 Module for Metz 40MZ2	52.95	QUQBC Pole Mounting Clamp.....	37.50
QUXF2 Locking Module.....	41.95	QUQB26 115v AC Charger (repl.)	39.95
QUXF3 Module Type F.....	41.95	QUQB35 Car Charger.....	99.95
QUXG2 Locking Module.....	41.95		

BATTERIES

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 belt-pack 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 & ACCESSORIES FOR THE QB1+

QUMA2 Locking Module52.95	QUMH Module Type H.....57.95
QUMB2 Locking Module52.95	QUMi5 Module Type i5.....59.95
QUMB5 Module Type B552.95	QUMKZ3 Locking Module.....54.95
QUMC Module Type C.....82.95	QUML Module Type L.....54.95
QUMCX Power Cord f/Contax 645 ...31.95	QUMVI Module Type VI.....59.95
QUME Module Type E.....54.95	QUMZ2 Locking Module57.95
QUME3 Module for Metz 32Z series .54.95	QUQB22 10' ext. for QB1+ modules ...34.95
QUME4 Module for Metz 40MZ2.....54.95	QUQBC Mounting Clamp41.95
QUMF2 Locking Module.....54.95	QUQB26 115v AC Charger (repl.).....39.95
QUMF3 Module Type F.....54.95	QUQB35 Car Charger.....99.95
QUMG2 Locking Module.....54.95	



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....33.95	QUMP Module for Pentax AF400T69.95	QUQBC Mounting Clamp37.50
QUMDC5 Power cable for Kodak digital ...33.95	QUMS Module for Sunpak (see chart)59.95	QUQB27 115v AC Charger (repl.)35.95
QUMM Module for Metz 45CT/45CL.....59.95	QUMY Power Cable for	QUQB28 115v AC Charger (repl.)34.95
QUMN Module for Nissin (see chart)69.95	Mamiya RZ-67 and 645 Pro Cameras41.95	QUQB37 115v AC Fast Charger.....119.95
QUMN2 Module for Nissin (see chart)69.95	QUQB23 10' ext. for QB2 modules46.95	QUQB36 Car Charger87.95

TURBO COMPACT

Power Your Camera and Flash

Turbo Compact is the ideal portable power solution. A heavy-duty power source for shoe and handle mount flashes, or digital cameras, it is the compact version of the top-of-the-line Turbo 2x2. This pack only has one battery cell, but still has a powerful capacity of 500 flashes and an extremely fast 1.5-second recycling time (full power, shoe mount flash). With dual outputs (one Turbo, one Bantam-type), the Turbo Compact can power a digital camera and flash together. Provides programmable low voltage for your camera and high voltage for your flash at the same time, so your flash keeps up with your camera, and camera with flash.



- ◆ The proper voltage for each camera model is automatically adjusted. To power a different camera or flash, change only the cable. Energy comes from NiMH technology, providing concentrated power, quick flash recycling, no memory, and long life.
- ◆ 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).
- ◆ Weighs just 16 oz. yet packs almost the same power of a Turbo. A self-contained thread screws into the socket on the bottom of a camera, and Turbo Compact itself accepts tripod threads for mounting.
- ◆ Makes a perfectly balanced platform for the Qflash (screws 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 picture.

CABLES & ACCESSORIES FOR THE TURBO COMPACT

YDC30 Cable for Canon D30, D60, D10D (QUYDC30)	49.95
YDC100 Cable for Nikon D70, D100 (QUYDC100)	49.95
YDC1 Cable for Nikon D1/D1x/D1H (QUYDC1)	49.95
YDC6 Cable for Canon 1D/1Ds (QUYDC6)	82.95
YDC10 Cable for Nikon D2H D2x (QUYDC10)	82.95
CCK Nikon short cable (see CK cable) (QUCCCK)	42.95
CCKE Nikon short cable (see chart) (QUCCKE).....	42.95
CCM4 Metz short cable (see CM4 cable) (QUCCM4)	49.95
CCM5P Metz short cable (see CM5+ cable) (QUCCM5P).....	49.95
CCS4 Sunpak short cable (see chart) (QUCCS4)	49.95
CCS5 Sunpak short cable (see chart) (QUCCS5)	49.95
CCZ Canon short cable (see chart) (QUCCZ)	42.95
QT48 Dual Connector for powering two flashes (QUQT48)	78.95
QT49 10' extension cord for Turbo cables (QUQT49)	57.95
ES1 Energy Saver for Vivitar 285HV, Metz 45CL-1/3/4, 45CT-3/4 (QUES1)	8.95
ES2 Energy Saver for Canon 430EZ, 540EZ, 550EX, Nikon SB-24/SB-26 (QUES2)	8.95

"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.

TURBO SC

Super Compact Flash Power

The Turbo SC ('S' for Slim and 'C' for Compact) provides typical all-day flash shooting capacity like the standard Turbo, yet weighs less than a pound and fits easily in a shirt pocket. State-of-the-art NiMH batteries power the Turbo SC for lightning-fast recycling times and high capacity. Despite its mini proportions, it provides up to 225 full-power flashes with Quantum's Qflash units, or 400 shoe mount flashes, on a single 1.5-hour charge. And, like all Quantum batteries, the Turbo SC features a computerized "fuel gauge" that clearly displays the amount of power remaining and monitors charging progress. Compatible with standard Turbo flash cables. Includes a removable belt clip and a 100 - 240v charger. (QUTSC)



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)	99.95	CM5+ Cable (QUCM5P)	54.95	QT49 10' Extension Cord (QUQT49)	
CD100 Cable (QUCD100).....	87.95	CN3 Cable (QUCN3).....	47.50	For Turbo cables	57.95
CD1 Cable (QUCD1).....	59.95	CO3 Cable (QUCO3).....	51.95	QMC Multi Clip (QUQMC).....	9.95
CD3 Cable (QUCD3).....	74.50	CS4 Cable (QUCS4)	47.50	ES1 Energy Saver (QUES1).....	8.95
CD5 Cable (QUCD5).....	69.95	CS5 Cable (QUCS5)	53.50	ES2 Energy Saver (QUES2).....	8.95
CK Cable (QUCK).....	59.95	CS6 Cable (QUCS6)	76.95		
CKE Cable (QUCKE).....	43.95	CV Cable (QUCV).....	51.95		
CL3 Cable (QUCL3)	59.95	CZ Cable (QUCZ)	44.95		
CL4 Cable (QUCL4)	54.95	QT46 Car Charger (QUQT46)	99.95		
CL5 Cable (QUCL5)	59.95	QT47 Fast Charger (QUQT47)	124.95		
CM1 Cable (QUCM1).....	59.95	QT48 Dual Connector (QUQT48)			
CM4 Cable (QUCM4).....	59.95	For powering two flashes.....	78.50		
				Dedicated 2x2 Cables	
				To connect Turbo 2x2 to digital cameras and other electronic devices.	
				See the B&H website for details.	
				SD2, SD4	51.95
				SD6, SD8, SD10	51.95
				SD12, SD14, SD16	51.95

FLASH CABLES

Flash	Batteries							
	Bantam	QB1C	QB1+	QB2	Turbo Z	Turbo C	Turbo/SC	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							

FLASH CABLES

Flash	Batteries							
	Bantam	QB1C	QB1+	QB2	Turbo Z	Turbo C	Turbo/SC	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					

QFLASH T5D-R & X5D-R

Studio Quality, High Power Automatic/TTL Portable Flashes

The T5d-R and X5d-R are the latest evolution of Quantum's proven portable Qflash units. Used with FreeXwire, they support wireless control of all dedicated camera-flash functions – including Manual, TTL, Auto, Auto-fill and TTL-Ratio – up to 500 feet away. They blend seamlessly with Canon, Nikon and other professional digital camera systems, using proprietary QTTL adapters. In some cases, they even provides capabilities a camera system may not support—such as wireless remote Fill-Flash!

The Qflash T5d-R is powered by a Turbo or Turbo 2x2 to produce powerful GN 160 auto-flash power, while the Qflash X5d-R is powered by Quantum's Qpaq-X, as well as Lumedyne or Norman power packs. At 400 watt-seconds

X5d-R produces GN 220 flash power. Both flashes 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 locking function. Flash control is either automatic, TTL (with optional adapters), manual, or stroboscopic. Qflashes can be ganged together to produce flexible lighting setups with thousands of watt-seconds of auto or manual flash power. Qflashes mounts 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 T5d-R / X5d-R 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 is great automatic exposures in all situations.

QFLASH T5D-R & X5D-R



Qflash T5d-R (QUQT5DR)

Includes 6' coiled power cord, reflector, diffuser, removable flashtube, earphone and 1/4-20 mounting thumbscrew. Requires Turbo, Turbo 2x2 for power.....CALL

Qflash X5d-R (QUQFX5DR)

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 T5d-R Accessories

Flashtube (QUQF30): Replacement49.95

Flashtube (QUQF30UV)
Optional UV-coated flashtube.....57.95

200w/S Remote Flash Head (QUQF36T)
With 8' extension cord.....155.95

Dual Connector (QUQT48)
For powering two Qflashes with a Turbo
Battery.....78.50

10' Extension Cord (QUQT49)
For Turbo cables.....52.50



Flashtube



Dual
Connector

Qflash X5d-R Accessories

Flashtube (QUQF32): Replacement66.95

Flashtube (QUQF32UV)
Optional UV-Coated Flashtube.....78.95

35w Model Lamp for Qflash (QUQF33).....19.95

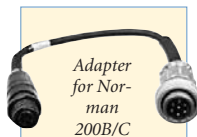
400w/S Remote Flash Head (QUQ36X)
With 8' extension cord.....144.95

Adapter for QFX Flash Head (QUQF40)
Adapts QFX to Norman 200B/C67.95

Adapter for QFX Flash Head (QUQF41)
Adapts QFX to Norman 400B.....67.95

Adapter for QFX Flash Head (QUQF42)
Adapts QFX to Lumedyne packs67.95

Straight 16.5' Extension Cord (QUQF43).....67.95



Adapter
for Nor-
man
200B/C



Adapter for
Norman 400B



Adapter for
Lumedyne Packs

Dedicated QTTL Adapters for T5d-R/X5d-R

D10w Adapter (QUD10W)
For Olympus E1, E20 &
E300129.50

D12wR Adapter (QUD12WR)
For Nikon D, D1x/D2x, D2H,
D80, D200, Fuji S3119.95

D13wR Adapter (QUD13WR)
For Canon EOS-D30, D60 10D,
20D, 1D, 1Ds, 1Ds
Mark II,119.95

D19w Adapter (QUD19W)
For Hasselblad H1/H2119.95

Accessories for all Qflashes

Spare Reflector (QUQF60B).....31.95

Snoot (QUQF61B)
For pinpoint lighting. Provides a hair light or
accent for subjects27.50

Bare Bulb Enhancer (QUQF62BS)
Polished satin silver reflector36.50

Bare Bulb Enhancer (QUQF62BG)
Polished satin gold reflector.....36.50

Telephoto Reflector (QUQF63B)
With QF63S Flashtube Spacer76.95

Flashtube Spacer (QUQF63S)
For use with the Telephoto Reflector.....34.95

Diffusing UV Filter Kit (QUQF64)
Replacement diffuser panel and cover....19.95

Clear UV Filter Kit (QUQF65)17.95

Color Gel Pack (QUQF66)29.95

Wide Angle Diffuser (QUQF67A)
Emits a very soft light with minimal shadows
and 2 stop lower Guide Number34.95

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.64.95

Quick Release "L" Bracket (QUQF70E) ..129.95

Camera/Flash Flip Bracket (QUQF70US)
A lightweight aluminum flash bracket ..129.95

QF72 Qflash Multi Bracket (QUQF72)
Includes umbrella swivel and "L" bar49.95

"L" Bar For QF72 (QUQF73)26.95



Telephoto Reflector



Wide
Angle
Diffuser



12 x 12
Softbox

Bare Bulb En-
hancer



QFLASH ACCESSORIES

Control Cables for Qflashes

QF50 (QUQF50): 20' cable for slaving two Qflashes together.....**39.95**

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**39.95**

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**54.95**

QF53 (QUQF53): Hot shoe sync adapter ..**54.95**

536 (QUSCCP18RS4T): PC to household male 18" coiled sync cord.....**32.95**

537 (QUSCCP5RS4T): PC to household male 5' coiled sync cord.....**29.95**



Remote Flash Heads for Qflash

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. 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 Qflashes.

Qflash 400 w/s Remote Flash Head for X5d-R (QUQ36X)144.95

Qflash 400 w/s Remote Flash Head for T5d-R (QUQ36T).....155.95

QNEXUS

Now your Canon or Nikon TTL master flash commands the power of Qflash on air!

Qnexus links your Qflash to the wireless TTL systems of Canon and Nikon. Qnexus "reads" the Canon or Nikon wireless IR code to command Qflash in manual, automatic, TTL, and TTL-Ratio, when mounted to a Qflash 5d-R or x5d-R. Use any number of dedicated, full-function Qflashes as remotes controlled totally from your camera's master flash menu. Qnexus supports all Canon and Nikon wireless flash functions from up to 100-200 feet!



Qflash T5d-R/x5d-r equipped with Qnexus gives you an additional 150 to 400 watt-seconds of beautiful, studio-quality lighting to dramatically expand your creative options. For example: make a great portable portrait set-up by using a Qflash in a softbox, or with an umbrella as your key light, and use your Canon or Nikon flash for fill. For those tricky large group photos, use multiple Qflashes for more lighting power, all controlled by a Canon or Nikon on-camera master flash. You can even mix remote Canon/Nikon flashes with remote Qflashes. You are not limited to the power of shoe-mount flashes. Get Qflash power, light quality and seamless integration with your Canon or Nikon wireless flash systems.

- ◆ A multi-function LED provides visual confirmation when Qnexus receives a wireless TTL signal. It blinks red for Canon, green for Nikon.
- ◆ Channel Dial works with the Canon or Nikon master flash channel selection.
- ◆ Remote group ID indicators allows Qflashes to be set up in multiple groups for Ratio-TTL, or combined in the same group for extraordinary flash power.

Qnexus TTL Wireless Adapter for Qflash and Canon or Nikon Flash Systems (QUNX) 154.00

QPAQ-X

Modular Power Pack for Qflash X4D/X5d-R

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-X 400 watt-second heads and shoot manual, automatic, TTL or Strobo mode!

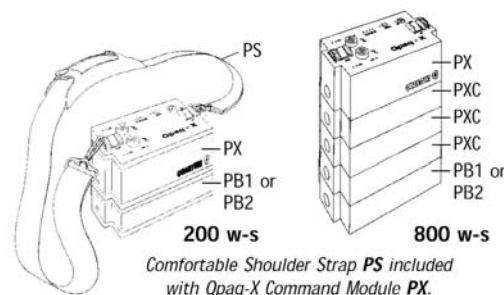
Qpaq-X has a removable battery that is user replaceable. Select from either small or large battery modules to fit the needs of your assignment. Then add or remove "PXC" modules to create a compact 200 watt-second pack or a two head, studio system up to 800 watt-seconds.



FEATURES

- ◆ Aim two Qflash X'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, automatic, 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.



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 & 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)**Call**

PB1 High-performance battery (QUPB1)**Call**

PB2 Compact battery (QUPB2)**Call**

PAC AC Module w/o charger (QUPAC)**Call**

PPM Pole mount for lightstand (QUPPM) ...**45.95**

PDC Dual Charge Adapter (QUPDC): (charges one or two batteries using PR1, PR2, PR3 or PRV)**192.95**

PCL Lumedyne adapter cable**66.50**

PR1US 115v Charger (QUPRIUS) ...**41.95**

PR2 Universal Charger (QUPR2) ..**114.95**

PR3US Fast Charger (QUPR3)**54.95**

PRV Car Charger (QUPRV)**84.50**

PR4 AC Module (QUPR4)**339.95**

RADIO SLAVE 4i

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

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 manualCall

Uni-Mod Universal Connector Module (QUFW11):
With hot shoe and female household connector. Use with standard household to PC sync cord\$4.95



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	29.95
435	4' coiled sync-in cord (QUSC4RS2T)	Yes	—	—	Yes	29.95
470	Special Sync-in Cord for Hasselblad "C" lens (QUSCHCRS2T)	Yes	—	—	Yes	36.50
534	1.5' Coiled Sync Cord - PC male household male (QUSC18RS4T)	—	Yes	Yes	Yes	32.95
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	32.95
537	5' coiled sync cord - PC male to household male (twin prong with center pin) for 505S/Si (QUSCCP5RS4T)	—	Yes	Yes	Yes	29.95
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	31.95
541	Sync-Out - Qflash sync household to mini phono (QUSCHHHHQF)	Yes	—	—	Yes	31.95
570	Special Sync Cord for Hasselblad "C" lens (QUSCHCRS4T)	—	Yes	Yes	Yes	36.50
QF53	Hot Shoe Sync Adapter for 505S via hot shoe of camera (QUQF53)	—	Yes	Yes	Yes	54.95
FW20	Sync-in Cord 18", PC to FreeWire accessory connector (QUFW20)	—	—	—	Yes	36.50
FW21	Hot Shoe Sync 18", to FreeWire accessory connector (QUFW21)	—	—	—	Yes	44.95
FW22	Hot Shoe Sync 18", hot shoe to FreeWire sync-in (QUFW22)	—	—	—	Yes	52.95
FW31	Ext Cable 18", FreeWire accessory connector to Qflash or Uni-mod accy connector (QUFW31)	—	—	—	Yes	34.95

FreeWire Wireless TTL Adapters and Miscellaneous Cables

FW52 (QUFW52): Wireless TTL adapter for Nikon.....	94.50
FW53N (QUFW53N): Wireless TTL adapter for Canon.....	94.50
FW57 (QUFW57): Wireless TTL adapter for Pentax.....	94.50
FW59 (QUFW59): Wireless TTL adapter for Hasselblad.....	94.50
FW60 (QUFW60): Wireless TTL adapter for Bronica.....	94.50
FW64 (QUFW64): Wireless TTL adapter for Contax 645.....	94.50
FW65 (QUFW65): Wireless TTL adapter for Mamiya 645AF.....	94.50
XDC2 (QUXDC2): External power connection from Bantam or QB1c to FreeWire.....	33.95
MDC2 (QUMDC2): External power connection from QB1, 1+, or QB1c to FreeWire.....	37.95
FW26 (QUFW26): Multi Clip, enables FreeWire to be clipped to belt or accessory bracket.....	10.95
FW29 (QUFW29): 115v external AC adapter.....	33.95
FW33 (QUFW33): Y connector for FreeWire TX to connect a TTL adapter plus a local Qflash and FW31 cable.....	52.95



FreeWire mounts to the camera shoe with either the Uni-Mod or TTL Adapters.

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	54.95
452	Hasselblad ELM, ELX (QUMDC452)	Yes	Yes	Yes	Yes	54.95
453	Canon, Olympus, Bronica SQAM, ETR Motor Drive (QUMDC453)	Yes	Yes	Yes	Yes	52.95
454	Mamiya RZ67, RZ67 II, 645 Super, 645 Pro (QUMDC454)	Yes	Yes	Yes	Yes	89.95
456	Leica R3, R5, R6, R6-2, R7, RE (QUMDC456)	Yes	Yes	Yes	Yes	89.95
458	Minolta 5000, 7000, 9000, 5000i, 7000i, 8000i, 5Xi, 7Xi, 9Xi, 700si, Maxxum 7,9 (QUMDC458)	Yes	Yes	Yes	Yes	89.95
459	Canon EOS A5, A2E, A2, 1, 1N, 620, T90 (QUMDC459)	Yes	Yes	Yes	Yes	92.95
463	Bronica SQAI (QUMDC463)	Yes	Yes	Yes	Yes	52.95
464	Rollei 6008, 6006, 6003, 6002, SLX (QUMDC464)	Yes	Yes	Yes	Yes	54.95
465	Hasselblad 503CW /CXI Motor Drive Cord (QUMDC465)	Yes	Yes	Yes	Yes	39.50
466	Canon EOS-3, 1V, D30, D60, 10D, 1D, 1Ds (QUMDC466)	Yes	Yes	Yes	Yes	99.95
467	Mamiya 645AF (QUMDC467)	Yes	Yes	Yes	Yes	66.95
FW41	Two step MD cord for Contax 645, Canon Elan 2, 2E, 7, 7E, Rebel 2000, XI Lite, Hasselblad HI (QUFW41)	—	—	—	Yes	36.95
FW42	Two step MD cord for Maxxum 7, 9 (QUFW42)	—	—	—	Yes	98.50
FW43	Two step MD cord for Canon EOS-1v, 3, 10D, 1D, 1Ds (QUFW43)	—	—	—	Yes	94.95
FW44	Two step MD cord for Nikon D1, D1H, D1X, F5, N90/s, F90x, F100 / Kodak DCS 760 (QUFW44)	—	—	—	Yes	98.95
FW45	Two step MD cord for Mamiya 645AF (QUFW45)	—	—	—	Yes	94.95
FW46	Two step MD cord for Canon EOS-1, A2/A2E, T90 (QUFW46)	—	—	—	Yes	94.95
FW47	Two step MD cord for Pentax 645N and all autofocus SLR Cameras except Z-1p (QUFW47)	—	—	—	Yes	94.95

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	—	—	34.95
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	22.50
515	115v AC adapter (US) for 505Ri (QUACA505RI)	—	—	Yes	—	29.95
516	220v AC adapter (overseas) for 505Ri (QUACA505RIX)	—	—	Yes	—	29.50
538	Replacement belt clip for 505Si Sender (QUBC505SI)	—	—	Yes	—	5.95