B&H

PHOTO - VIDEO - PRO AUDIO

The **DigitalPhotography** SourceBook

Section 8

Underwater Photography

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For Section 8, Underwater Photography use Quick Dial #: 73

BONICA

SNAPPER-XP S5

5-megapixel Digital Underwater Camera

Bonica's Snapper-XP S5 digital underwater camera features the innovative XP system (stands for eXtra Protection) that safeguards the camera against moisture by having a completely water-tight silicone skin around the camera, much like a dry suit. While inside the skin, the camera is an all-weather camera fit for all outdoor activities. The skin protects the camera from rain, snow, sand and scratches. Put the camera is inside the hard housing, and it is ready to be submerged to 180´. In case moisture gets inside the housing, the digital camera is fully protected. The Snapper-XP S5 has a 5-megapixel CMOS chip, and photos up to 12-megapixel can be stored with the cameras interpolation feature. The 2.5˝ LCD makes viewing easy. The camera also features a 8x digital zoom and video recording at 30 frames per second.

Snapper Skin

◆ Made of flexible silicone rubber

◆ Rated to 12-ft. (3.65 m) with skin

◆ Allows full control of the camera

◆ Replacement skins are available in different colors to personalize your camera

Housing

◆ Made of tough, almost indestructible polycarbonate - rated to 180-ft (55 meters)

◆ 14 buttons allow full control of the camera while underwater

◆ Tempered optical glass lens port   ◆ Maintenance-free silicone main seal

◆ Compatible with macro and close-up lens for the SeaKing II camera

◆ Replacement hand grips are available in different colors to personalize your housing

Snapper-XP S5 *(BOSS5DCSS)*
With Water Resistant Skin, Wrist Strap (for land use), Lithium-ion Battery Pack, Battery Charger, USB and A/V Cables..**179.95**

Snapper-XP S5 *(BOSS5DCH)*
With Water Resistant Skin, Underwater Housing, Wrist Strap (for land use), Lithium-ion Battery Pack, Battery Charger, USB and A/V Cables **314.00**

Neon-XP Strobe

Powerful underwater strobe light, the Neon-XP Strobe will fire with 4 different pre-flash setting as well as no pre-flash –allowing it work with any underwater digital camera that has a built-in flash. Designed to fit the Snapper-XP S5 perfectly, it will enhance the picture quality in poor lighting conditions. It also reduces the backscatter problem that normally will occur when using a camera with built-in flash.

Along with manual control a microprocessor controlled exposure sensor automatically regulates the intensity of the flash to provide proper exposure at apertures from f/2.0 to f/4.0. Say farewell to trial-and-error lighting adjustment, it puts point-and-shoot simplicity back into the hands of digital photographers.

The strobe also has a fully adjustable arm and flash head that swivels 360°. This will allow you to aim the flash in any direction. The strobe has dual sensors, this allows it to fire simultaneously when the camera flashes without the need for a sync cord. Double silicone seal rings give better protection from water leakage. A second strobe light can be attached on the support tray if additional lighting is needed. *(BONEONLITXP)*..............**299.95**

Optional Accessories

Maclens-XP
Macro and Close-up Lens with Bracket for Bonica Snapper-XP *(BOBMCULSXP)* ..**59.95**

SNAPXP-DFR
Snapper-XP Flash Diffuser / Deflector *(BOSNAPXPDFR)* **24.95**

Flipper
The Flipper allows easy rotation of the camera between horizontal and vertical for portrait or landscape composition in conjunction with the Neon Strobe *(BOFZ)* **49.95**

ECOSHOT

6-Megapixel Waterproof Digital Camera

Designed for the active outdoor and watersports enthusiast, the ECOshot is the world's first truly waterproof and shockproof digital sports camera. Compact and action-ready, it is depth tested waterproof to 75´, rubber armored for a sure grip, and shockproof tested up to 6´. Let your creativity shine with the new SPY mode. SPY mode lets the camera do all the work– it takes continuous pictures at set time intervals. Capture those impossible pictures when you can't get close to the subject. Ideal for boating, fishing, kayaking, surfing and snorkeling, the ECOshot also includes the popular Land & Sea modes for bright, colorful images on land or underwater.

ECOshot and ReefMaster Mini Both Feature

◆ Depth rated to 75-ft. (ECOshot) and 130-ft. (ReefMaster Mini) and shockproof tested to 6-ft.

◆ 2˝ LCD for easy viewing and aiming

◆ 4x digital zoom

◆ Land & Sea exposure modes for vivid colors on land or underwater

◆ Spy Mode lets you set the camera to automatically take photos every 3, 10, 30 seconds or 1, 5 minutes.

◆ 320 x 240 at 24 fps video mode with audio

◆ Fast start-up time and shutter response so you don't miss the action

◆ Run on 2 AA batteries (up to 100 pictures)

◆ Instant Focus - from 2-ft. to infinity

◆ Fully ribber armored for sure grip and extra shock protection

◆ Record to SD memory cards up to 1GB

◆ USB 2.0 and PictBridge compatible

Optional SL970 Wide-Angle Lens

Fit everything into the shot and stay within the shooting range of your flash. The 24mm W/A lens takes a full-frame picture of a 5' shark within 5-ft. shooting distance.

• Increases shooting angle about 50%

• Easily snaps on and off the camera even while underwater

• Fully-multi coated optical glass

• Sharp focus from 2' (60cm) to infinity without any adjustments.

• Mounts to SL972 Lens Dock (required)

SL321 ECOshot *(SEES)* **249.95**

SL970 0.65x Wide Angle Lens *(SELWA)* **99.95**

SL320 ReefMaster Mini *(SERMM)* **299.95**

SL972 Lens Dock for SL970 W/A lens **19.95**

REEFMASTER MINI

6-Megapixel Underwater Digital Camera

The ultimate dive companion. Compact, rugged, easy to-use-the ReefMaster Mini will accompany you on any dive or adventure you have in mind. The Land & Sea exposure modes ensure great pictures on land or underwater. The Ext Flash mode allows for easy expansion with one or two SeaLife external flashes and results in bright, colorful underwater images. The Sea mode color booster corrects for the underwater blue color effect. For breathtaking panoramic shots, add the optional wide angle lens which allows close up pictures to within 12˝ and increases the shooting angle to 50° so you can fit everything in the picture. The rubber armored, shockproof body is depth tested to 130´ and drop tested to 6´.

SL325 ReefMaster Mini Pro Set *(SERMMPS)*

The ReefMaster Mini ProSet is specifically designed for divers to take brighter, colorful pictures underwater. The set includes the ReefMaster Mini, the popular SeaLife SL960 external underwater flash and deluxe soft case. By adding the flash, even brighter more colorful images can be captured at greater depths and under adverse conditions **479.95**

DC600

6.1-Megapixel Underwater Digital Camera

Take photographs as you explore the ocean world both above and below the water. The easy-to-use DC600 is good to depths of up to 200´. Of course it is also ideal for taking worry-free pictures in the rain, at the beach, or on the ski slopes. 2.5˝ LCD screen allows easier viewing underwater and reviewing of images. When shooting underwater without flash the camera has two Sea Mode underwater white balance settings. One is for above 25´ and one for below 25´. With the Spy mode feature you could set the camera to automatically take photos every 3, 10, 30 seconds or 1, 5 minutes. By setting this up on a tripod and swimming away you could photograph very shy creatures. The camera housing allows access to power, shutter, zoom, LCD, menu, mode, 4 navigation buttons, OK and delete functions underwater. The sure fire flash connection system holds your fiber optic cable in the prefect position so the flash will fire every time.

FEATURES

- ◆ Bright 2.5˝ LCD makes it easy to see while diving; great for reviewing pictures
- ◆ 3x optical zoom plus 4x digital zoom
- ◆ Land Modes include: Auto, Sports, Sunset, Sunrise, Splashwater, Night, Macro, Portrait, Landscape, Panorama, Candlelight, Text, Backlit. Underwater Modes include External Flash, Sea and Spy
- ◆ Sea Mode - "Color Booster" provides optimum underwater white balance when shooting without flash; Two Sea Mode underwater settings provided; One for above 25' (7.62 m) and one for below 25' (7.62 m)
- ◆ Spy Mode lets you set the camera to automatically take photos every 3, 10, 30 seconds or 1, 5 minutes.
- ◆ The sure fire flash connection system holds your fiber optic cable in the prefect position so the flash will fire every time
- ◆ Brightness Control; One-touch switch toggles through Far - Normal and Macro Flash
- ◆ Pocket-size removable inner camera
- ◆ Fully rubber armored for extra durability sure grip
- ◆ Rechargeable lithium battery for extra long battery life
- ◆ Depth tested to 200-ft. (60 m)
- ◆ Expandable with all ReefMaster lenses, flashes and accessories
- ◆ Record VGA (640x480) quality at 30fps with audio

SL160 DC600 Camera (SEDC600)

Includes Lithium-Ion rechargeable battery, Docking/Charging Cradle, A/C Adapter and international plug adapters, USB and Video cables, Padded Case for inner camera, Wrist lanyards for both inner camera and housing, Flash Deflector, Photo Express and Photo Explorer software, Care Kit with Anti-Fog Desiccant Cartridges **499.95**

SL165 DC600 Pro Kit (SEDC600PS)

Includes the DC600 camera, dedicated SL960 external flash with optical cable connection to the DC600 (SL962 Flash Link), flexible, rubberized arm for easy aiming and sure grip, deluxe soft case **679.95**

SL168 DC600 Elite Kit (SEDC600EK)

Includes the DC600 camera, SL960D external digital flash with optical cable connection to the DC600 (SL962 Flash Link), flexible, rubberized arm for easy aiming and sure grip, camera mount tray, 24mm Wide Angle lens *(SL970)*, Lens Dock *(SL972)* and custom travel case with special die cut foam for all components *(SL948)* **899.95**

SL169 DC600 Maxx Kit (SEDC600MK)

The DC600 MAXX Set is the ultimate flash system. It avoids shadows and creates light effects by directing each flash at or behind the subject. Brightness can be individually controlled. This MAXX Set is all packed out in an indestructible waterproof hard case.

Includes the DC600 camera, two (2) SL960D external digital flashes with optical cable connection to the DC600 (SL962 Flash Link), two flexible, rubberized arms for easy aiming and sure grip, camera mount tray, 24mm Wide Angle lens *(SL970)*, Lens Dock *(SL972)*, two NiMH Charger sets and hard travel case *(SL939)* **1299.95**

SEA & SEA

DX-750G

5.2-Megapixel Digital Camera with Underwater Housing

The DX-750G consists of the DX-750G digital camera and a housing rated to a depth of 150´ (45m) that allows access to all camera functions underwater. The camera features a 5.19-megapixel CCD chip (images can be interpolated up to 7-megapixels, producing files for large detailed prints), and a bright 2˝ LCD monitor that makes composition, replay, and adjustment easy. It has a 3x (35mm equivalent of a 35-105mm) optical zoom that is ideal for a range of subjects and distances, and lets you get as close as 4˝ in macro mode. For a wider angle that is better for underwater, an optional wide angle lens is also available. The camera is also ideal for snorkeling, surfing, skiing, fishing, sailing, or even certain industrial situations. The housing provides a fiber optic connector socket for flash connection and has a built-in flash diffuser that spreads and softens the camera's built-in flash when normal flash is too much light. A grip protector is designed for a comfortable fit in your hand underwater.

FEATURES

750G Camera Features

◆ Very fine 1/2.5-inch primary-color CCD with effective image quality of 5.19 megapixels (recordable up to 7-megapixels).

◆ Equipped with bright and contrasty 2˝ LCD monitor.

◆ Versatile 3x optical zoom plus 5x digital zoom provides a wide range of focal lengths.

◆ In macro mode you can position your lens as close as 4˝ from the subject for highly magnified and vivid images.

◆ Built-in flash with 10-ft. range (recycle time is 7 sec.) and Auto, Slow Synchro, Off, Red-Eye reduction, Fill-in, Off, Wide mode.

◆ Automatic white balance mode, as well as five preset modes (Daylight, Cloudy, Sunset, Tungsten and Fluorescent light), and a Custom mode.

◆ 750G menu offers nine decorative photo frames. This unique feature lets you capture images within the frame of your choice, already fancy-framed and ready to print.

◆ The 750G can record video with audio, at 640x480 resolution, 24 frames per second.

◆ Powered by alkaline or NiMH AA batteries.

◆ PictBridge compatible, you can print directly from the camera with any printer that supports the PictBridge interface.

◆ Records to SD memory cards.

DX-750G Housing Features

◆ Ruggedly constructed with a depth rating of 45m / 150-ft. All functions of the 750G camera are available underwater.

◆ Exterior bayonet mount accepts the wide-angle conversion lens, which can be attached or detached underwater.

◆ Inner hood and external LCD monitor hood allows high visibility of the LCD screen in bright light

◆ Equipped with a fiber-optic cable socket for accessory off-camera strobes.

◆ Built with a solid grip protector for a secure hold underwater.

◆ Built-in flash diffuser slides easily into place using housing controls. The diffuser spreads and softens the camera's built-in flash when normal flash is too much light.

Optional 0.7x Wide Angle Conversion Lens

The optional wide angle conversion lens will increase the field of view to an equivalent of a 24mm lens on a 35mm camera. This allows you to get closer to large subjects. When you are closer to your subject there is less water between your lens and subject; this increases contrast and color saturation. This lens can be added or removed underwater.

DX-750G Underwater Digital Camera:
Includes 2AA alkaline batteries, USB and A/V cables, Handstrap, Camera pouch, LCD monitor hood, O-ring and Desiccant pack *(SEDX750GH)* **485.95**

DX-750G Underwater Digital Camera Sport Kit with YS-27 Underwater External Flash with Single Sea Arm and Fiber Optic Cable *(SEDX750GYS27)* **769.95**

DX-750G Underwater Digital Camera Sport Plus Kit with YS-27 Underwater External Flash with Single Sea Arm, Fiber Optic Cable, Wide Angle Lens and Soft Case - *(SEDX750GYS2Q)*...**964.95**

Ballast Weight: Used to adjust the buoyancy of the DX-750G so it is neutrally buoyant. The weight is not needed when using the camera with a strobe *(SEBWDX750)* **44.95**

DX-860G

6.2-Megapixel Digital Camera with Underwater Housing

The DX-860G consists of the DX-860G digital camera and a housing rated to a depth of 150´ (45m) that allows access to all camera functions underwater. Stepping up from the DX-750G (previous page), the camera features a 6.2-megapixel CCD chip (images can be interpolated up to 8-megapixels, producing files for large detailed prints), and a bright 2.5˝ LCD monitor that makes composition, replay, and adjustment easy. The camera also adds exposure correction function, continuous shooting and automatic bracketing function, adjustable sensitivity, and special image effects settings.

FEATURES

- Ultra-fine 1/2.5-inch CCD with an effective pixel count of 6.2 megapixels (maximum recordable pixel count of 8 megapixels) provides high-resolution image capture.
- Large 2.5-inch TFT liquid crystal monitor in a compact, light-weight, thin aluminum camera body provides vivid image display.
- A macro mode on the zoom lens lets the camera focus as close as 2˝ from a subject for close-up photography of small subjects.
- An exposure correction function (2EV, in steps of 0.5EV) shifts auto-exposure settings to compensate for tricky lighting situations.
- A continuous shooting function and auto-bracket function (-0.5EV, 0EV, +0.5EV) allow capturing quick bursts of images and automatic exposure variation.
- Adjustable ISO sensitivity (Auto, 100, 200, 400) sets CCD capture sensitivity for added exposure control.
- Special image effect settings (Black-White, Normal, Sepia, RGB) produce unique images, and sharpness settings (Soft, Normal, Vivid) control image clarity.
- Powered by supplied lithium-ion battery (includes battery charger as well).
- The housing's exclusive bayonet mount accepts the included close-up lens or optional wide-angle conversion lens designed for the DX-860G. You can attach or detach each lens underwater.
- A lever-type shutter release makes tripping the shutter easy and responsive.
- Housing comes with an accessory shoe for attaching accessories.

YS-27DX Strobe

The YS-27DX is a compact and affordable manual strobe for most digital cameras in the market. Designed for multipurpose underwater photography, the strobe has a beam angle of 105° x 84° and a guide number of up to 20 (ISO 100 / m) / 66 (ISO 100 /feet), providing spread and power for subjects that range from wide-angle to macro.

The light level control dial is precisely adjustable, allowing you to get just the right amount of light for the subject at hand. The light level control dial has nine different light level controls, which increments from a minimum power of GN 1.7 to a maximum power of GN 20 (1EV step).

An optional fiber optic cable accurately synchronizes the strobe with your digital camera's built-in flash. Pre-flash cancel mode ensures the strobe won't fire prematurely when used with digital cameras that emit a small pre-flash burst before the main flash. Powered by 4 AA batteries, which provide strength and endurance for a full day's shooting without changing batteries. Recycle time using 2700mAh NiMH batteries is only two seconds, providing speedy recovery for a rapid series of images.

The YS-27DX is also an ideal slave sub-strobe for a digital SLR camera housing. It detects light from the main strobe's flash and immediately fires in sync with the main strobe.

SEA & SEA

DX-8000G

The DX-8000G is a set consisting of the DX-8000G housing and 8000G digital camera with 8.24-megapixels of resolution and a wide-angle-to-telephoto zoom lens to capture crystal-clear images. Featuring higher speed, higher image quality and higher functions, the DX-8000G/8000G housing and digital camera set brings the best in underwater photography to divers around the world, so they can capture and share their joy in diving. Shutter response is the fastest in its class. Shutter lag for a single press is a mere 0.10 seconds, time to activate the camera after power on is only 1.3 seconds, and for continuous image capture, the interval between shutter releases remains constant at only 1.7 seconds until the memory fills up.

FEATURES

◆ The 8000G captures razor-sharp images using 8.24 million effective pixels that clearly record the details in every frame. It processes the image data at high speed and simultaneously reduces image noise.

◆ The 8000G's zoom lens contains nine lens elements in seven groups and employs an optical 3x zoom that expands to 28mm at full wide angle and captures ample light around its edges.

◆ The 8000G camera has a stylish aluminum alloy body that fits comfortably in your hand. The platinum-silver-coated grip makes the camera easy to hold and shoot.

◆ Records high-quality moving images (320x240 at 30 fps) underwater, and can shoot until the camera's memory is filled.

◆ ADJ button takes you straight to preferred parameter settings. Can be customized to display parameter settings that you use most often: exposure compensation, white balance, ISO, and other functions.

◆ For real-time exposure data, you can display a real-time histogram on the LCD monitor while you' re shooting so you can see the light levels in your image, or display the histogram for images you' ve already captured.

◆ Offers six white-balance modes: Auto, Daylight, Overcast, Tungsten Light, Fluorescent Light, and One-Push (Manual Setting) that manually sets the white balance.

◆ Exposure compensation ranges from ±2.0 EV in 1/3 EV increments for fine adjustment let you capture images in tricky lighting.

Aperture Prioritized Mode and Manual Exposure Mode

The aperture prioritized exposure mode lets you set the size of the iris opening in the camera's lens. You can use it to control the depth of field.

The 8000G supports three types of power supply: a high-capacity rechargeable battery, AA batteries, and an AC adapter. The rechargeable battery lets you work for extended periods without battery change, and captures about 400 images when it's fully charged. AA batteries are a convenient backup if you find yourself unexpectedly without a charged rechargeable battery; they will capture about 80 images when fresh. And if you're shooting indoors, the optional AC adapter captures an unlimited number of images.Manual Focus/AF Target MoveManual focus allows you to manually set the focus in conditions where automatic focus can't get a lock on your subject.

Three types of power supply

The 8000G supports three types of power supply: a high-capacity rechargeable battery, AA batteries, and an AC adapter. The rechargeable battery lets you work for extended periods without battery change, and captures about 400 images when it's fully charged.

◆ Supports PictBridge that allow direct connection between the 8000G and a printer for printing.

◆ 1.8inch highly fine LCD monitor (approx. 130,000 pixels).

◆ White balance bracket and automatic bracket. Based on the white balance value, the camera records three photos; a more red photo, a standard photo and a more blue photo. The automatic bracket allows you to continuously take three photos respectively having white balance values of -0.5EV, ± 0EV and +0.5EV with one releasing action.

◆ Proximity flash that highlights the object softly in a short distance of 15cm.

◆ Six scene modes for selection of the optimum program.

◆ Three photometrical methods; "TTL-CCD Photometry Multiple", "Center" and "Spot".

◆ Non image compression mode. You can choose the NC (Non Compression) mode as well as the N (Normal) mode and the F (Fine) mode. • Camera Memo function.

◆ Three continuous shooting functions: "S-Continuous" allows you to continuously take 16 photos in about two seconds from the moment when you fully press the shutter button. These photos are recorded as one image file. "M-Continuous" continuously take 16 photos in about two seconds before you release your finger from the shutter button in a retrograde manner. These photos are recorded as one image file. "S/M-Continuous" is helpful when you check a continuous movement. It enlarges the frames and displays one after another like an animation movie.

SEA & SEA

DX-8000G

YS-25 AUTO

An integrated automatic light adjustment to offer the a compact auto-strobe for digital underwater cameras. By adjusting the aperture of the digital camera and matching it on the YS-25 AUTO, the amount of light is automatically adjusted depending on the filming distance. The pre-flash controller prevents the strobe from accidentally firing as a result of red-eye reduction pre-flash. An optional fiber-optic cable is available to ensure strobe synchronization. The optional DX STAY and flexible DX ARM and Sea Arm Light allows you to move the strobe to any position, giving you full control of how and where your subject is lit. Not only is the YS-25AUTO great for underwater photography, but it can also be used topside to expand the limited capability of the digital camera's built-in flash.

YS-110 Strobe

The YS-110 strobe is packed with ground-breaking features designed for the new age of digital photography. When it's connected via a fiber-optic cable to a compact digital camera with TTL metering, the YS-110 strobe offers DS-TTL (Digital Slave Through-The-Lens) light adjustment. DS-TTL follows the camera's TTL-adjusted flash for automatically accurate flash photography. You can use two YS-110 strobes for creative effects with subtle light balance. For example, you can set one strobe to DS-TTL mode and the second strobe to manual mode. The YS-110's mode compensation function provides a light level control dial for just the right balance of light.

The YS-110 also provides full manual control that sets flash intensity that is independent of the camera. The 12-step manual control provides a finely graded variety of light settings up to a powerful maximum setting of guide number 22. Three xenon tubes positioned in the strobe provide a flat balance all the way across a circular beam angle of 105° (with diffuser), with even and consistent light that will satisfy even finicky professionals.

The YS-110 contains a high-luminosity white LED target light located in the center of its front face. The target light turns on with a convenient button press on the strobe's rear panel, and turns off automatically when the YS-110 flashes. You can connect the strobe to digital SLR cameras and film cameras using the same cables that connect conventional YS-series strobes. You can also connect the strobe to compact digital cameras using a fiber-optic cable.

The YS-110 is a versatile strobe designed for almost any use.

	750G Camera	860G Camera	8000G Camera
Depth Rating	150´ (45m)	150´ (45m)	180´ (55m)
Accessory Lens/Filter Mount	Sea & Sea specially designed bayonet mount	Sea & Sea specially designed bayonet mount	Sea & Sea specially designed bayonet mount
Effective Resolution	5.19 million pixels	6.2 million pixels	8.24 million pixels
Motion AVI Video with audio	320x240 @ 25 fps	640 x 480 and 320 x 240 @ 24 fps	320x240 @ 30 fps
Audio Annotation	No	Yes with digital music player	WAV (Exif ver. 2.2)
Lens	3x Optical zoom f/2.9-4.8	3x Optical zoom f/2.8-4.9	3x Optical zoom lens (9 glass elements in 7 groups) with 4x digital zoom
Optical / Digital Zoom	3x / 5x	3x / 5x	3x / 3.4x (640x480 only)
Focal Length	6.2mm - 17.4mm (35mm - 105mm equiv.)	5.8 - 17.4 mm (35 - 105 mm equiv.)	5.8mm - 17.4mm (28mm - 85mm equiv)
Minimum Focus Distance	Normal: 19.6˝ Macro: 4˝ (wide)	Normal: 31.5˝ Macro: 2˝ (Wide)	Normal: 11.8˝ Macro: 1/3˝ (Wide)
Focus Type	Auto focus with 3.0x optical zoom	Auto focus with 3.0x optical zoom	Normal
Focusing Range Normal	19.69˝ - infinity	31.5˝ - infinity	11.8˝ - infinity
Focusing Range Macro	1/3˝ - 4˝ (wide)	2˝ - 31.5˝	1/3˝ - 23.6˝
Sensitivity	AUTO, Selectable ISO (100, 200, 400)	AUTO, Selectable ISO (100, 200, 400)	AUTO, Selectable ISO (64, 100, 200, 400, 800, 1600)
Exposure Modes	Programmed AE, Exposure compensation (±2.0 EV in 1/5EV steps)	Programmed AE, Exposure compensation (± 2.0 EV in 1/5EV steps)	Programmed AE, Exposure compensation (± 2.0 EV in 1/5EV steps), Aperture priority and Manual
Aperture	f/2.9-4.8 (max.)	f/2.9-4.8 (max.)	f/2.5 - 4.3 (max.)
White Balance	Auto, Daylight, Cloudy, Sunset, Tungsten light, Fluorescent light, Custom	Auto, Daylight, Cloudy, Sunset, Tungsten light, Fluorescent light, Custom	Auto, Daylight, Overcast, Tungsten Light, Fluorescent Light, Manual (One Push)
Effective Built-in Flash Distance	0.66 to 9.84´	0.66 to 9.84´	Less Than 10´
LCD Display	2.0˝ color TFT LCD	2.5˝ color TFT LCD	1.8˝ TFT LCD
Viewfinder	Real-image optical viewfinder	–	Real-image optical viewfinder
Memory Card	Secure Digital (SD)	Secure Digital (SD)	Secure Digital (SD)
Power Source	2x AA Batteries	NP-40 Li-lon Battery	2x AA Batteries
Computer Interface	USB 1.1	USB 2.0	USB 2.0

SEA & SEA

DX-350D/DX-400D

Underwater Housings for the Canon EOS Digital Rebel XT and Rebel XTi

The DX-350D (for XT) and DX-400D (for XTi) are constructed of a tried-and-true combination of durable aluminum alloy and lightweight polycarbonate for comfort and easy handling underwater. They support all of the Digital Rebel XT/XTi's functions critical for underwater imaging, and the modified shutter release lever is hyper-sensitive and responsive. The viewfinder offers corner-to-corner viewing and clear readouts of camera data. Equipped with circuitry for a shutter-activated focus light, the housing excels at macro photography. They are also equipped with N-connectors for dual strobe imaging and are compatible with the full range of NX ports. The DX-400D also has a built-in TTL converter.

X-350D for **Underwater Housing** Canon Rebel XT (SEDX350DH).....**1,749.95**   **X-400D** for Canon Rebel XT (SEDX350DH) **1,749.95**

DX-D50 for Nikon D50 (SEDX50H)

Super compact housing for the Nikon D50, the DX-D50 is sturdy, stable and simple to maneuver. The front housing is constructed out of rugged corrosion-resistant aluminum alloy, while the rear is made of polycarbonate. Uncomplicated controls at easy-to-access positions permit fluent operation even in the most challenging underwater environments. Three locking latches provide triple protection against accidental opening of the cases. The DX-D50 is equipped with two 5-pin N-connectors, compatible with Sea & Seas YS strobes. Also compatible with a full range of NX ports for a variety of Nikkor lenses. Built-in leak sensor signals a water leakage problem, while the semi-transparent rear case provides a visual check **1,499.95**

DX-D80 for Nikon D80 (SEDXD80)

The easy-to-use DX-D80 housing is packed with sophisticated features that include a shutter lever that detects halfway presses, and an ergonomic grip. It accepts an interchangeable pickup viewfinder (optional) for vision correction, and its carefully designed controls make it easy for anyone to use the camera intuitively underwater. Comes standard with 2-pin connector compatible with Sea & Sea YS-series strobes, and a 5-pin connector that accepts the optional TTL converter II for Nikon that enables automatic TTL strobe photography. Works with NX ports designed for the NX-series housing to provide maximum flexibility for the lenses you choose to shoot **2,195.95**

DX-D200 for Nikon D200 (SEDXD200H)

Built of a corrosion-resistant aluminum alloy coated with hard alumite, the DX-D200 housing is designed to fit the camera snugly so it's compact and lightweight. Its high-quality leather-toned outer surface offers improved resistance to corrosion and abrasion A newly designed pickup viewfinder brings every corner of the camera frame into clear view. You can easily sense when the shutter is pressed halfway to activate features without tripping the shutter. The DX-D200 comes standard with a 2-pin and 5-pin type-N strobe connector that is compatible with the Sea & Sea Series-YS strobes. The 5-pin connector accepts the optional TTL converter for Nikon cameras that enables automatic TTL flash adjustment for accurately lit flash photography....................**2,495.95**

DX-5D for Canon EOS 55 (SEDX5DH)

The DX-5D is made of a tough corrosion-resistant aluminum alloy with a hard alumite coating, and a leather-toned outer surface. It has the ability to sense when the shutter is pressed halfway to activate features without tripping the shutter. Inside, a leak sensor keeps watch for water inside the housing. Comes standard with 2-pin and 6-pin type-N strobe connectors that are compatible with the Sea & Sea Series-YS strobes. The 6-pin connector accepts the optional TTL converter for Canon cameras that enables TTL flash adjustment for accurately lit flash photography. Also compatible with NX ports used by the NX housing series...**2,595.95**

Required Ports for 35mm& Digital SLR Housings

NX Standard Flat Port (SEPFNX90)..**265.95**	**Compact Macro Port S (35)** (SECMPS) **251.95**
NX Compact Dome Port for Wide Angle Lenses (SECDP) **456.95**	**Compact Macro Port 52** (SEMP52NX90) **226.95**
NX Custom Flat Port (SEPFNX90Q)..**456.95**	**Compact Macro Port 79** (SEMP79NX90) **229.95**
NX Fisheye Dome Port (SEPDFENX90)..**584.95**	**Compact Macro Port 111** (SECMP111)...**242.95**
NX Zoom Flat Port (SENXZP) **327.95**	**CompactWide Port L** (SEWPDX70)..**365.95**

DIGITAL SLR CAMERA HOUSINGS

Fantasea Digital SLR underwater housings feature an interchangeable port system to accommodate a wide variety of SLR lenses allowing photographers to capture the widest variety of superior underwater images. Available for Canon, Nikon and Olympus digital SLR cameras, each offer full functionality, allowing access to all essential control options. They also have a depth rating to 200 feet (60 meters). Unique visible O-ring seal and stainless steel latches to ensure a watertight seal. Ergonomically designed handles are included with Ball and Joint connection for arms. All housings include a standard zoom port, and have a one-year free D.E.P.P flood insurance policy. A complete line of specially designed accessories are also available including a wide variety of lens ports, flex arms, Ball and Joint arms, digital flashes, flash housings, lights, port brackets, protective bags and more.

DSLR Camera Housings

For Canon Rebel XT with 18-55mm zoom port *(FAF350D)* **799.95**

For Canon Rebel XTi with 18-55mm zoom port *(FAF400D)* **924.95**

For Olympus E330 with 14-45mm standard zoom port..................**CALL**

For Nikon D-50 with 18-55mm zoom port *(FAFD50)*........................**799.95**

For Nikon D-70 18-70 mm zoom port *(FAFD70)*.............................**749.95**

For Nikon D-40/40x with 18-55mm zoom *(CALL)*..........................**879.95**

For Nikon D-80 with 18-70mm port *(FAFD80)* **924.95**

Interchangeable Ports

5″ Dome Port for Wide Angle Lenses *(FA5IDP)* **299.95**

For Canon / Nikon 60mm Macro Lenses *(FA105MMMP)*....................**149.95**

For Canon / Nikon 100mm Macro Lenses *(FA60MMMP)* **185.95**

FSB-800 Flash Housing

For the Nikon SB-800, offers full controls for all flash functions including TTL when used with Fantasea Nikon housings. Depth rated to 200′. Includes Sync Cord and Ball Joint Arm *(FAFSBK)*...............................**349.95**

F-580 EX Flash Housing

For the Canon 580EX Speedlight, features full controls for all flash functions including E-TTL when used with the Fantasea Canon housings. Depth rated to 200′. Includes 6-pin sync cord *(FAF580FH)* **414.95**

FFL-50 Flash Housing

For the Olympus FL50 flash, offers full controls for all flash functions including TTL when used with the Fantasea Olympus housings. Depth rated to 200-ft. Includes sync cord *(FAFFL50FH)*.................................**414.95**
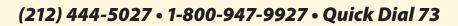
LIGHT & MOTION

Titan D200 Housing for Nikon D200

The Titan D200 is a professional grade housing controlled by USB Advanced Technology to enable fingertip control over aperture, shutter speed, as well as bracketing, exposure compensation and white balance. The electro-mechanical shutter release provides control with a tactile feel between half and full shutter. The ROC (Remote Optical Controller) Strobe Control gives you up to 12 manual power levels on most TTL compatible strobes directly from the housing. Accessory lenses include a Macro Port as well as a Wide Angle Dome to support most Nikon lenses. Additional conversion rings let you use domes from other manufacturers such as Aquatica and Sea & Sea. Conveniently located LED panel that informs the user of current strobe power level.

Titan D200 Housing *(LIHD200)* **4,498.50**

8″ Dome Port for Wide Lenses *(LITDPD20014)* **899.95**

Fisheye Dome Port for 10.5mm Lens *(LI10.5TFDP)*........................**1,198.95**

Standard Flat Port for Macro Lenses *(LIFPD200)* **599.95**

VR Flat Port for Nikkor 105mm f/2.8G VR Lens *(LIVRFPD105)*......**699.95**

Port Conversion Ring for Aquatica Bayonet Style Ports *(LIAPCR)* **299.95**

Port Conversion Ring for Sea & Sea Ports *(LISSPCR)* **299.95**

Port Conversion Ring for Subal Ports *(LITSPCR)* **299.95**

IKELITE

UNDERWATER HOUSINGS

For Compact Point-and-Shoot Digital Cameras

Ikelite's "clearly" superior housing design provides an unobstructed view of all things contained beneath its protective shell. Dive knowing your system is safe while having complete visual access to the camera, LCD, monitor, and control functions. The clear polycarbonate molding insures seamless construction and performance without fear of corrosion. Most housings have a working depth of 200´. Ikelite offers housings for more than 50 different digital still camera models.

FEATURES

◆ Many Ikelite housings come with a handy aluminum mounting tray that offsets the buoyancy of the housing. For other Ikelite housings, the tray is optional. This creates a neutrally buoyant system ideal for handling underwater. The easy-to-grip handles provide a quick-release point for arms and external strobes.

◆ There's a range of Ikelite Substrobes and sensors available to meet your individual exposure preferences and lighting needs. Ikelite Substrobes offer TTL compatibility with some models of Nikon and Olympus digital cameras. Other cameras may use the manual exposure EV-Controller with the DS51 or DS125 Substrobes.

◆ Tired of losing clarity while shooting photos underwater? Try adding a wide-angle lens to your camera system. The resulting increased angle of coverage will allow you to get closer to your subject to ensure you don't miss that "once in a lifetime" shot. Most of Ikelite's compact digital housings allow for easy installation of external wide -angle lenses.

◆ Ikelite provides a full line of optional accessories for Ikelite digital housing systems. Choose from our selection of filters, wide-angle lenses, arm systems and DS Substrobes to build a system tailored specifically to your photographic needs.

◆ Ikelite has never built a product to be "disposable". All of the housings are completely factory serviceable and designed to stand the test of time. All housings include a one-year warranty and are backed by the best service in the scuba industry.

◆ Due to the rapid and numerous introduction of digital still cameras please visit our web to find a housing for your camera.

Digital Strobe Packages

The following Digital Substrobe packages are compatible with Ikelite Digital Housings and other manufacturers of digital underwater housings such as Canon, Olympus, and Sony. Housings must have an Ikelite Tray with Release Handle to mount the strobe and arm system to the housing.

Manual Exposure EV-Controller Packages

Bundled with the Ikelite EV-Controller you get ten (10) manual power settings in half-stop increments for maximum exposure control of the Ikelite DS51 or DS125 strobe. The EV-Controller can be triggered using the built-in slave sensor or the optional sync cord #4103.50 or #4103.51 on housings that have a flash connector.

3944.47 DS51 Substrobe & EV-Controller Package: Includes: DS51 Strobe, EV-Controller and Strobe Arm Is *(IK3944.47)* **424.95**

3944.54 DS51 Substrobe & EV-Controller Package: Includes: DS51 Strobe, EV-Controller and SA-100R Arm *(IK3944.54)* **559.95**

3944.77 DS125 Substrobe & EV-Controller Package: Includes: DS125 Strobe, EV-Controller, SA-100R Arm and 1.5-hour Smart Charger *(IK3944.77)*............. **899.95**

TTL or Manual Exposure Sync Cord Packages

Certain Ikelite housings feature the flash connector allowing the Ikelite Substrobe to be triggered via a sync cord. Some housings are compatible for TTL exposure, others are limited to manual exposure.

3944.45 DS51 Substrobe & Sync Cord Package: Includes: DS51 Strobe, Ikelite Sync Cord and Strobe Arm Is *(IK3944.45)*...**Call**

3944.51 DS51 Substrobe & Sync Cord Package: Includes: DS51 Strobe, Ikelite Sync Cord and SA-100R Arm *(IK3944.51)* **429.95**

3944.60 DS200 Substrobe & Sync Cord Package: Includes: DS200 Strobe, Ikelite Sync Cord#4103.51, SA-100R Arm and 1.5-hour Smart Charger *(IK394460)* **1349.95**

UNDERWATER HOUSINGS

For Digital SLR Cameras

Ikelite provides a complete line of under housings to accommodate today's new high-resolution, digital SLR cameras. The housings are designed to take full advantage of digital SLR cameras' cutting-edge features. Get great results consistently with special Ikelite conversion circuitry that provides real TTL flash control. When used with current Ikelite DS Substrobes, most housings allow you to switch between TTL/auto and manual exposure and control your flash intensity effortlessly through the back of the housing.

FEATURES

◆ Each housing is an injection mold of clear, lightweight polycarbonate. This material is the ideal merger between durability and visibility. The camera is safely encased within the strong housing walls and offers complete visual access to the LCD, controls, and camera itself. Shoot with confidence that the camera is safe; see the o-ring seal that keeps your housing airtight and waterproof. Every housing is depth rated to 200´.

◆ Housing controls are kept water tight with Ikelite pioneered Quad-Ring seal glands, proven to be the most reliable method for sealing controls. Creative control of your pictures continues to rest at your fingertips; the ergonomic housing design maintains camera functionality, even beneath the surface. The majority of the camera's features can be accessed underwater. The housing tray makes camera mounting and removal a snap. The Ikelite Super-Eye viewfinder behind the camera eyepiece enhances viewing through a dive mask.

◆ Interchangeable port system allows the camera to use a wide variety of lenses, from macro to wideangle to zoom. Lens ports are available in two styles (flat and dome) and an assortment of sizes. All can be changed quickly and easily with a port lock system that prevents accidental opening.

◆ The rubber handles offer excellent grip and a quick release system for Ikelite's SA-100 and SA-125 arm systems. Housing latches have spring-loaded locks to prevent accidental opening of the housing. The dependable right-angle Ikelite bulkhead accepts single or dual Ikelite sync cords for the use of external strobes.

Real TTL Flash Exposure

Ikelite's digital SLR camera housings come standard with TTL Conversion Circuitry that allows the camera's TTL flash system to control current Ikelite DS Substrobes. Most housings also include a Flash Compensation Module for both TTL and manual exposure. Easily switch from TTL to the Manual Exposure Mode, which provides seven or eight power settings. All exposure compensation is done on the back of the housing - no messing with complicated camera menus. The flash compensation module is either built into the housing's camera tray or into the back of the housing. When built into the housing's camera tray, compensation is achieved with two push buttons, and a series of LED's provide feedback on exposure mode and compensation. When built into the housing back, a compensation knob indicates exposure mode and compensation. Other manufacturers' strobes can be used with Ikelite's housings, but they will neither provide TTL functions nor interact with the compensation module.

Digital SLR Camera Housings

Housings have controls for all camera functions except flash button (or others where noted). Two push buttons provide TTL and manual exposure compensation. For..........

Canon Digital Rebel *(IK6870.1)* 1149.95

Canon Digital Rebel XT *(IK6871.35)*...1234.95

Canon Digital Rebel XTi *(IK6870.1)*

Canon EOS 5D *(IK6871.05)*: No controls for multi-controller, print button...........1279.95

Canon EOS 10D *(IK6871.11)* 1234.95

Canon EOS 20D *(IK6871.20)* 1234.95

Canon EOS 30D *(IK6871.30)*: No controls for multi-controller, print button...........1269.95

Nikon D-50 *(IK6805.1)* 1129.95

Nikon D-70 / D-70s *(IK6805.1)*: No controls for depth-of-field preview button and lock switch focus area 1129.95

Nikon D-80 *(IK6808.1)*: No controls for depth-of-field preview button. A knob on the housing back provides TTL and manual exposure compensation....................1259.95

Nikon D-100 *(IK6810)*: Controls for all camera functions except depth-of-field preview button, shooting mode dial lock, release/shooting mode dial, metering selector, speedlight lock release, focus mode selector, and lock switch focus area. No TTL circuitry is provided. Any Ikelite Substrobe can be used in the manual mode ....**Call**

Nikon D-200 *(IK6812)*: Controls for all camera functions except focus point selector lock, meter selector, speedlight lock release, and shooting mode dial and lock. A knob on the housing back provides TTL and manual exposure compensation....................**1379.95**

Olympus E-330 *(IK6853.30)*.................**1189.95**

Olympus E-500 *(IK6855)*: Provides TTL conversion circuitry that works with Ikelite DS Substrobes. Doesn't include Ikelite exposure compensation module.........**999.95**

IKELITE

SUBSTROBES

The underwater environment presents unique lighting challenges. Only a portion of the sun's rays penetrate the water. As they lose intensity with depth, the colors lose vibrancy and blend together. After reds fade, followed by oranges and yellows, photographic images are left with a blue-green cast. Illuminate the colors in your subjects with an Ikelite Substrobe so your camera can perceive and record the full beauty and spectrum of marine life.

Substrobe DS51

The compact, lightweight and affordable Substrobe DS51 is ideal for a wide range of applications. Sophisticated digital electronics make it fully compatible with the latest digital cameras. Rivaling strobes twice its size, the DS51 recycles in a quick 3.5 seconds and provides 200+ full-power flashes on a set of AA batteries. Even shorter recycle times and more flashes will be experienced during TTL operation.

The DS51's compact size is ideal when positioning the strobe for macro photography, while its 50 w/s intensity makes it equally suited for wide-angle shots. A convenient rotating switch controls flash output with TTL/auto position and six manual power settings. Use of the removable wide-angle diffuser (included) softens the DS51's light and helps reduce backscatter in photos. With the diffuser in place, the DS51's angle of coverage widens to 80º while light output is reduced by one f-stop.

The DS51's electronics are sealed separately from the battery compartment, which accepts four AA alkaline, NiMH, or Nicad batteries. The DS51 is compatible with Ikelite sync cords and the EV Controller.

Substrobe DS51 *(IK4044.1)* 349.95

Substrobe DS125

Enhance your wide-angle underwater photography with the DS125. Fully compatible with digital cameras, the DS125 combines high intensity 110 watt-sec. output, wide 100° coverage angle (with diffuser) and quick 1 second recycle time. Use of the diffuser softens the light and helps reduce backscatter. The diffuser reduces the light output by one f-stop. A special coated soft-lite reflector produces more natural colors with rich reds, oranges, and warmer flesh tones.

The DS125 features TTL auto exposure plus four manual power settings; full, 1/2, 1/4 and 1/8 power. The main strobe electronics are safely sealed separately from the easily interchangeable NiMH battery module. An LED fuel gauge references remaining battery capacity. Use the DS125's built-in modeling light / night diving light to assist in aiming and to illuminate your subject's colors.

The DS125 uses Ikelite's unique Flip-Lock Design for opening and resealing. Simply flip the locking lever up, rotate, and the battery pack is released for easy replacement and/or charging. Optional Smart Charger provides a 1.5 hour recharge time.

Substrobe DS51 *(IK4065)*..679.95

Substrobe DS200

The DS200 features sophisticated electronics that includes the newest IC chips and IGBT circuitry providing compatibility with the TTL circuitry included in the housings. Industrial grade NiMH batteries provide 200w/s of power, recycling in an incredible 1.6 seconds and delivering 160 full power flashes per full charge. The control panel and ready light are always visible, regardless of which side of the housing the strobe is mounted on. The DS200 features an fuel gauge that shows the remaining battery power, eliminating guesswork.

The DS200 delivers an even 100° beam. A removable diffuser increases coverage angle to an even wider 110°. Ikelite's special soft-light reflector produces softer, warmer, natural colors. Built-in aiming light illuminates your subjects with sufficient intensity to also function as a night diving light. Electronics are sealed separately from the battery compartment for added protection. The "easy clean" battery door features a built-in exposure guide and allows for effortless removal and replacement of the battery module. Optional Smart Charger provides a 2.5-hour recharge time.

Substrobe DS200 *(IK4062.2)* 874.95

	DS-51	DS-125	DS-200
Weight	1.3 lbs	2.75 lbs	3.9 lbs
Diameter x Length	3.2 x 4.7″	3.75 x 7″	4.5 x 7.5″
Energy Rating watt-sec.	50	110	200
Coverage Angle (w/o diffuser) *Diffuser adds 10°*	70°	90°	100°
Widest Lens w/o diffuser Nikonos SLR	28mm 28mm	15mm 18mm	15mm 18mm
Guide # ISO 100 Surface-feet Underwater-feet Surface-meters Underwater-meters	56 28 17 9	64 32 20 1	76 38 24 12
Firing Modes T = TTL M = Manual	T M (6 powers)	T M (4 powers)	T M (4 powers)
Color Temperature	5700°K	4800°K	4800°K
Power Source	4 "AA" Alkaline Ni-Cad Ni-MH	NiMH Module	NiMH Module
Flashes (full power)	200 flashes	250 flashes	160 flashes
Recycle Time	3.5 sec.	1.0 sec.	1.6 sec.
Modeling Light Optional	Mini C-Lite	Built-in	Built-in

IKELITE

DOME PORTS

The Ikelite dome is injection-molded specifically for underwater photography, and represents the finest optics in the industry. Molded by one of the world's leading optical lens manufacturers, the dome corrects for water refraction to maintain the same coverage angle underwater. The dome functions as an optical lens underwater to create an image of the subject that appears much closer than the actual subject. The camera lens focuses on this apparent image of the subject. Recommended for wide angle lenses from 17mm to 28mm, and short zoom lenses. Zoom lenses require a +4 diopter close-up lens. Wide angle lenses will focus at 12˝ and do not require the addition of any close-up lens when used in a dome port. (Note: Maximum lens diameter is limited to 3.3˝. The diameter for attachment of zoom or focus clamps is limited to 2.8˝. Only zoom lenses with rotating barrel control for zoom can be used. Push-pull zoom control can not be operated. Manual focus zoom lenses are not recommended.)

Dome Port

Lens length less than 3˝ *(IK5503)*............**159.95**
Lens length less than 4˝ *(IK5503.50)* **159.95**
Lens length less than 4.5˝ *(IK5503.55)* **159.95**
Lens length less than 5˝ *(IK5503.80)* **159.95**
Lens length less than 6˝ *(IK5503.85)* **159.95**
For Nikon 20mm
f/2.8D lens *(IK5503.20)* **157.95**
For Nikon 28-105mm
f/3.5-4.5D lens *(IK5503.81)* **159.95**

Super-Wide Dome Port

For lenses with a length less than 2.5˝, and 110 to 170° angle of coverage. This port does not allow use of a port shade, and is not compatible with the SLR-MD housing due to vignetting *(IK5503.15)*.............................**159.95**

Flat Ports

Due to refraction, flat ports reduce the angle-of-coverage of a lens and at the same time enlarge the image. This makes the flat port ideal when using standard, macro and telephoto lenses to shoot small objects.

Lens length less than 2.5˝ *(IK5501)*...........**99.95**
Lens length less than 3.5˝ *(IK5502)*...........**99.95**
Lens length less than 4.1˝ *(IK5502.41)* **106.50**

Lens length less than 4.5˝ *(IK5505)*.........**119.95**
Lens length less than 5.1˝ *(IK5505.45)* **119.95**
Lens length less than 5.5˝ *(IK5505.5)* **119.95**
Lens length less than 6.1˝ *(IK5505.58)* **119.95**

Flat Ports with Focus

For long lenses whose focus collar extends beyond the housing focus. Telephoto lenses longer than 135mm are not recommended.

Lens length less than 4.5˝ *(IK5506)*.........**159.95**   Lens length less than 6.5˝ *(IK5507)*.........**159.95**
Lens length less than 5.5˝ *(IK5506.5)* ......**159.95**   Lens length less than 7.5˝ *(IK5508)*.........**159.95**
For the Nikon 105mm Micro-Nikkor lens only *(IK5508.05)* **148.95**
For the Canon 100mm f2.8 EF USM Macro lens only *(IK5508.45)*..**148.95**

8" Dome Port

Ikelite's 8˝ diameter dome port system offers several benefits to the discerning underwater photographer: Save luggage space. A series of interchangeable bodies allows one dome assembly to accommodate a variety of wide-angle and zoom lenses. Reduce edge distortion on photos taken with certain fisheye and super wide-angle lenses. Larger radius makes shooting over-under (half above water, half underwater) pictures easier. (Requires purchase the of the Dome Assembly #5510.45 and one or more port bodies to accommodate your wide angle lenses).

Dome Assembly

Accepts any Ikelite port body listed. Includes dome shade and neoprene port cover. (No port body extension included.)
8˝ Dome Assembly with Shade and Cover *(IK5510.45)* **359.956**

Port Bodies

Superwide Body *(IK5510.10)*: For exceptionally wide lenses like the Nikon 10.5mm and Sigma 15mm fisheye. Low-profile port locks included. (Not compatible with film camera housings) **124.95**

Standard Body *(IK5510.16)*: For use with most lenses that utilize the #5503.50 and #5503.55 dome ports...**119.95**

24mm Nikon/10-22mm Canon Extension *(IK5510.22)*: For Nikon 12-24mm or Canon 10-22mm lens..**139.95**

Extended Body *(IK5510.24)*: For longer zoom lenses. Used with most lenses that use #5503.80 dome ports...**149.95**

EWA MARINE

UNDERWATER HOUSINGS

Ultimate Protection for Digital Cameras

With an Ewa-Marine housing you can take almost any point -and-shoot digital or small DSLR camera underwater– often with zoom lens and flash – to capture truly world class photos. Lightweight, yet very robust for long and dependable service life, the housings let you shoot at depths of 30, 60 or even 150´ (depending on the model), plus allow you to take your camera into the most hostile environments (humidity, seawater, spray, sand, dust) without fear for the safety of your camera and lens. The special sheeting used for the housings is molded and welded by an elaborate process. They are fitted with a front port made of neutral, high quality optical glass. These and a number of other features (depending on the model) let you shoot pictures that will be the envy of your friends. Ewa-Marine SLR cameras housings are flexible, allowing easy control of the camera, while an adapter system holds the camera's lens securely to the front optical glass port. "Finger ports" allows you to access many of your camera's most important controls, such as program modes, shutter release mechanism, and tele/wide buttons.

FEATURES

◆ Unlike hard housings which are sealed with sensitive O-rings that require careful maintenance and can leak without warning, Ewa Marine's housings require no such rings.

◆ The housings are hydro-static welded, UV resistant and feature their own carry strap All underwater housings are sealed via a triple stainless steel, non-corrosive screw closing rail.

◆ Perfect for snorkeling, shallow diving, sandy, dusty, humidity or foul weather conditions. The housings will give your camera the best possible protection while being fully operable.

◆ They have a pair of non-corrosive and seawater resistant clamping rails which fit together for perfect sealing. They tighten by means of two or three screw knobs.

◆ Ewa Marine flexible housing are extremely easy to maintain. There are no "O"-rings to maintain as found in hard housing that may contain as many as 12-18 rings (a hard housing is only as good as its "O"-ring seals).

◆ These rings must be constantly inspected, greased, and many times - replaced. Ewa Marine housings only require a quick rinse in fresh water, towel dry, keep then away from sharp objects, and do not allow then to bake in the sun.

◆ Many housings weigh less than two pounds compared to housings weighing 10-20 lbs.

◆ Although they have a practical operating depth of 165´, these flexible housing can be successfully taken to hundreds of feet with absolutely no damage to the housing (although damage to your camera may occur at exteme depths). The depth limitation is due to the design of the actual camera. For example, water pressure exerted on a flexible housing causes the housing to compress, which affects various protruding camera controls such as a shutter button, on/off switch, or zoom button. Those designed with greater protruding controls will be even more adversely affected with "sticking" control buttons in less depths of water. Depth operation is dependent upon the construction of the camera and not the housing.

◆ Ewa Marine housings also serve as durable protection in rain and snow conditions. Housings fold flat for easy storage in a camera bag.

Camera Dry Munchers *(EWCD5)*
No more lost photos — stop condensation before it starts. Reusable, the "Munchers" fit most Ewa housings perfectly. Built-in color indicators let you know at a glance their condition. (Pink for saturated, Blue for okay). They can be recharged up to 5 times. Set of 5............................**14.50**

Digital Camera Housings

U-AM Compact Camera Housing *(EWUAM)*: For cameras with fixed or short zoom lens. Fits lens diameters (less than 2″). The housing measures 3.5 x 6 x 2.75″ (HxLxD) **84.95**

U-MM Mini Compact Camera Housing *(EWUMM)*: Large rectangular lens port fits a large variety of cameras as lens placement is not critical. Measures 3.5 x 5 x 3.3″ (HxLxD) **99.95**

U-AMZ Compact Point & Shoot Camera Housing *(EWUAMZ)*: For cameras with zoom lens. Fits cameras with zoom lens up to 5″ long, 2″ wide. Measures 3.5 x 6 x 5″ (HxLxD)...**84.95**
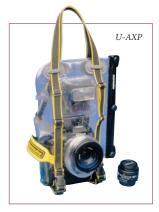
EWA MARINE

UNDERWATER HOUSINGS

Photo Camera Rain Capes

Sport capes are for popular digital and 35mm cameras, and offer complete protection against rain, snow, moisture and dust. (They are not for underwater use). Ideal for use on boats and on the beach. Most feature oversized optical glass ports for clear, brilliant photography.

C-AF Hurricane Photo Cape *(EWC9)*: Optical glass port 80mm with 49-62mm adapter ring included. Holds lens up 8″ long..**94.95**

C-AFX Hurricane Photo Cape (with flash) *(EWCAFX)*: Same as the C-AF, however its larger rectangular shape allows use with top mounted flash **153.95**

C-AF100 Hurricane Photo Cape *(EWCAF100)*: For SLR cameras with up to 8″ lens with 77mm adapter **159.95**

C-AFX100 Hurricane Photo Cape *(EWCAFX100)*: Same as above , plus will accept shoe mount flash **159.95**

C-500 Pro Hurricane Hood *(EWC500)*: Designed for use with most 500mm/600mm lenses. Velcro lens opening fits various diameters and lengths up to 16″ long...........**159.95**

CZ-100 Pro Hurricane Hood *(EWZ100)*: Longer and larger shape allows use of oversized zoom lens..**199.95**

U-AXP

Housings For Digital SLR Cameras

UA *(EWUA)*: For DSLR cameras with or without a built-in flash....................................**259.95**

U-AX *(EWUAX)*: For DSLR cameras with a top mounted flash **284.95**

U-AXP *(EWUAXP)*: For DSLR cameras with a top mounted flash...**329.95**

U-AXP100 *(EWUAXP100)*: A special version of the U-AXP which allows the use of lenses with a 77mm or 82mm filter diameter and internal focus.......................**379.95**

U-BXP *(EWUBXP)*: Same as U-AXP except it is extra robust for over-sized DSLR bodies...**389.95**

U-BXP100 *(EWUBXP100)*: Same as U-AXP100 except it is extra robust for over-sized DSLR bodies **439.95**

U-AZ *(EWUAZ)*: For SLR cameras with a long zoom lens **284.95**

Model	Length	Width	Height	Position of Viewfinder	Front Port Diameter	Weight	Works to a Depth of
UA	4¾″ - 6⅔″	6⅔″	5⅛″	2¹⁵⁄₁₆″	72mm max. filter thread	.85 lbs.	60′
U-AX	4¾″ - 6⅔″	6⅔″	9½″	2¹⁵⁄₁₆″	72mm max. filter thread	.95 lbs.	60′
U-AXP	4¾″ - 6⅔″	7½″	10¾″	2¹⁵⁄₁₆″	72mm max. filter thread	1.5 lbs.	150′
U-AXP100	4¾″ - 6⅔″	7½″	10¾″	3¾″	77/82mm filter thread	1.55 lbs.	150′
U-BXP	4″ - 8″	8⅔″	14½″	2¹⁵⁄₁₆″	72mm max. filter thread	1.9 lbs.	150′
U-BXP100	4″ - 8″	8⅔″	14½″	3¾″	77/82mm filter thread	1.9 lbs.	150′
U-AZ	6⅔″ - 9″	6⅔″	5⅓″		72mm max. filter thread	0.9 lbs.	60′

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