

The introduction of the **UltraLight Control Systems' Camera Pivot** has revolutionized underwater photography. Our pivot allows the photographer to convert his camera set up from horizontal to vertical in less time than it takes for his/her strobes to recycle. The strobes never need repositioning whether you've switched to the vertical or horizontal format.

Ultralight has manufactured a new pivot for some of the consumer digital housings, which include the Tetra, the Olympus PT series, Sony, Sea and Sea.

UltraLight makes a light weight arm system, the lightest aluminum system on the market. All arms and adapters have an o-ring in the ball portion. This greatly increases the friction forces at the joint, therefore, keeping the arms where you put them. UltraLight Control Systems offers a full line of trays, arms, adapters, and accessories for both still, digital, and video camera systems. Feel free to call us at the numbers below to discuss your system's needs.

We think once you have tried our product you will agree it is the best, lightest weight, most convenient, and versatile on the market. It will be the last arm system you will have to buy.

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GETTING STARTED

DIGITAL

The first question we ask is what camera or housing are you using? If your camera is a digital in a housing, we make a digital tray (**TR-D**). This tray can take a handle (**TR-DH**) that is flat on top. You can add a spotting light to the top of it with our spotting light kit, see pg. 10. If you want to add a strobe, then our handle ball (**BA-HB**) will screw into the handle. Then you can take our arm system off the top of that handle. This tray can be made into a double tray (**TR-DUP**) (see pg. 4).

You have a housing and you want to mount our arms to it. **Aquatica, Sea and Sea and Nexus** have built in handles. We make adapters to fit on top of the handles. The most popular is the **BA-AQW**. We can supply it with metric or US threaded bolts. Please specify the housing you are using. If you have a **Sea and Sea** housing it may come with a plate (**BA-TP**) on top of the handle. We make an adapter to fit on it if you like (**BA-TG**) or you can replace the plate with our **BA-AQW**.

Subal housings come with a plate to mount Ultralight arms. You can mount a **BA-TG** on this plate or you can use a Ultralight Subal dovetail base or double dovetail base. (**BA-SU** or **BA-SUD**). Our **BA-SV** & **BA-SA** mount directly to the housing. (See pg. 5). Subal handles can be replaced with Ultralight handles and a bracket **TR-SC**. (See page 4).

An **Ikelite** housing with an older style Ikelite handle uses our **AD-3816** on top of the handle after removing the plastic knob. Our new **BA-IK** fits Ikelites latest SLR release handle and the taller version **BA-IKT** accomodates the TTL slave unit or the manual controler. (See pg. 5).

NIKONOS

If you are using a Nikonos, are you going to use your current tray? If so then our handle **AC-H** will fit on this tray so you can use Ultralight's arms. If you want a new tray, are you going to use one or two strobes? We have a single tray that can be upgraded to a double tray in the future. We also make the "**Pivot**" the ultimate in double trays for the **Nikonos** or **Sea and Sea**. (See pg. 3).

After you decide on the tray, then you need to decide which handle to use. Our handles come with a nice rubber grip. The handle works best on the left side of the system. The handle can be fixed (**AC-H**) or a quick disconnect (**AC-HQD**) type, allowing you to hand hold your strobe. Many customers have found that the flexibility of our system means they are doing much less hand holding then before. They get consistent results when they know where their strobe is at all times. (See pg. 4)

After the handle selection, then the arm selection comes next. Our system is based on two arm segments, (**DB-03, DB-05, DB-08, DB-12, DB-16**) three clamps (joint)(**AC-CS**), a base adapter and a strobe adapter. This gives you the greatest flexibility, with a joint at the strobe, one in the middle of two arms and one at the base. (See pg. 6&7). Our handle can be the base adapter.

ARMS & CLAMPS

The size of the arm segments is your next decision. You need to answer what type of photography are you going to do, macro, wide angle, or a little of both. Our most popular arm size is 8 inches. Two 8 inch segments with the three clamps, the base adapter, and the strobe adapter is 22 inches in total length. (See pg. 7).

Strobe adapter selection is easy. We make an adapter for every strobe or video light that is out there. If you have a strobe or light that we do not list just mention it to us and we probably have a solution. See pg. 8-9.

Pivots, are the ultimate in a double strobe tray. It can also be used for single strobe photography. The pivot is explained on page 1. We make pivots for the **Nikonos V**, the **RS, Tetra** housings, **Olympus PT** housings, and many other polycarbonate housings. Call to see if your housing will fit.

CAMERA & HOUSING PIVOTS: (photos below)

CP-OLY	Olympus housing pivot, please indicate which housing
CP-OLY80	Olympus housing pivot for 5060 & 8080 housings
CP-TD	Tetra Housing Pivot, for Olympus 3000-4000 series(see below)
CP-TDC	Tetra Housing Pivot, for Nikon & Olympus 5050(see below)
CP-NK	Nikonos 3, 4, 5, & Sea & Sea MXII camera pivot (see below)
CP-RS	RS Camera Pivot (photo below)

If you have a small housed camera and are looking for a pivot, one of the ones above may fit, please call to discuss.

PIVOT ACCESSORIES For Nikonos & RS pivots: (some photos below)

CP-BASE	Nikonos pivot base to use with an RS pivot back
AC-HB	Handle Base Adapter (Adjustable, mounts on bottom of pivot)
AC-H	Handle with Ball with rubber grip (photo pg. 4)
AC-HQD	Quick disconnect Handle with Ball with rubber grip (photo pg.4)
AC-WS	Wrist Support (Fits on RS pivots (photo below) and RS single tray)



CP-RS & CP-NK
RS PIVOT AND
NIKONOS V PIVOT
 The RS pivot has an optional wrist support on right side.



CP-NK & AC-H
& AC-HB
NIKONOS V PIVOT
 Has handle mounted on left side of pivot and a BA-AQ on the right side



CP-OLY
Olympus pivot
 for the Olympus housings may work with others, call. Handle included, base adapters extra



CP-TDC
TETRA COOLPIX
PIVOT
 For Light & Motion's Tetra housing for the Nikon Coolpix 5000 digital camera (handle is included) Pictured with base adapters (extra)

Three ways to mount base adapters to Nikonos or RS pivots



BA-DB with BA-AD



BA-DB with BA-DT



BA-AQN



AC-HB & AC-H
HANDLE BASE
ADAPTER & HANDLE
 (for Nikonos, RS, and Subal pivots)
 With 1/4-20 holes on bottom, is adjustable 3" left to right.



CP-TD
TETRA PIVOT
 For Light & Motion's Tetra housing for the Olympus 3000 & 4000 "C" series digital cameras (handle is included)

CAMERA TRAYS & ACCESSORIES: (photos below)

- TR-D Digital single tray for most Polycarbonate housings
- TR-DUP Upgrade your digital single tray to a double tray (for 2 strobes)
- TR-DH Digital handle for digital tray (has 1/4-20 threads in it)
- BA-HB Ball to fit on digital handle (has a 1/4-20 screw)(photo below)
- TR-DHB TR-DH handle with ball attached (BA-HB ball adapter)
- TR-NKS Nikonos 2, 3, 4, 5, Sea & Sea Camera Single Tray
(may be upgraded to a double tray) (Requires a handle or AD-3816)
- TR-UP Upgrade your Single tray to a double tray (requires a ball adapter)
- TR-NKD Nikonos 2, 3, 4, 5, Sea & Sea Camera Double Tray
(Requires one handle and a AD-3816 to mount your arm sets.)
- TR-SBLD Camera Housing Tray, double, (Subal, Sea & Sea housings)
14.5 inches long (requires one or two handles or AD-3816 to mount an arm set
- TR-RSS RS Camera Single Tray with Wrist Support
- TR-SC Bracket to mount Ultralight's handles to Sea Cam or Subal housings. (This is in place of the handle that comes with either housing)

TR-SC

This bracket and Ultralight's handle will replace the Sea Cam or Subal handle. Can be mounted up or down



CAMERA TRAYS

From top to bottom:

- TR-NKS** Nikonos single tray
- TR-NKD** Nikonos double tray
- TR-SBLD** Housing tray, 14.5" long
- TR-RSS** RS camera tray with wrist support.



TR-NKD

NIKONOS DOUBLE TRAY (TR-NKS & TR-UP)

With an optional AD-3816-2 adapter and an optional AC-HQD handle (left side). Right side is stepped down for comfort. This tray will also accept digital housings



AC-H

HANDLE WITH BALL

(left in photo)

To mount to Nikonos single or double trays, or camera housing tray and pivots.



AC-HQD QUICK DISCONNECT

HANDLE WITH BALL (right in photo)

To mount to Nikonos single or double trays, or camera housing tray and pivots. Disconnects by a push of the stainless button.

TR-D & TR-DH

Digital tray with handle for most digital housings, i.e. Olympus, canon, sony, monolta. A **BA-HB** (handle ball) can be added if arms are needed.



TR-D & TR-DUP

Digital tray with upgrade for use with two strobes



AC-SPL

Spotting Light adapter for UK MiniQ-40 light to attach to the top of new digital handle.



This is the digital tray, handle with ball adapter, mounting plate (pg. 10), and spotting light adapter.

BASE ADAPTERS: (most photos below)

- BA-AQW Base adapter - Wide - for housing handles, specify US or metric screws
- BA-AQN Base adapter - Narrow - for Ultralight pivots
- BA-DB Dovetail Plate (Dovetail Female Groove), specify US or Metric screws
- BA-DT Dovetail Adapter (Male) fits in the female plates
- BA-AD Angled Dovetail adapter (Male) fits in the female plates
- BA-SU Subal Dovetail Plate (Dovetail Female Groove)
- BA-SUD Subal Double Dovetail Plate (Dovetail Female Groove)
- BA-SV Fixed base adapter with ball for Subal housings
- BA-SA Fixed base adapter with ball, angled for Subal housings
- BA-TP "T" plate (for Sea & Sea housing handles & Ultralight's BA-TG)
- BA-TG Base "T"-Groove, slides over (Amphibico and Sony video housings, Sea & Sea, Subal housing plates, also Ultralight's BA-TP)
- BA-LM Light and Motion & Top Dawg video housing base adapter (pg 8)
- BA-IK Base adapter for Ikelite's SLR release handle
- BA-IKT Base adapter for Ikelite's SLR release handle, taller version to accept Ikelites TTL Sensor or manual controller
- BA-PR Port ring adapter for Nexus port ring (photo pg. 10)
- BA-HB Ball to mount with 1/4-20 thread pg. (photo pg. 4)
- New BA-SP Replacement plate for top of Subal Housing (6mm threaded hole)



BA-TP

T-Plate for use with T-Groove, see picture to the right. Same as Amphibico and Sony plates.

BA-TP and BA-TG

For Sea & Sea, Amphibico, and Sony.



BA-DB with BA-DT (left photo) **BA-DB with BA-AD** (right photo)

DOVETAIL BRACKET (FEMALE) & DOVETAIL ADAPTER (MALE) (left photo)
DOVETAIL BRACKET (FEMALE) & ANGLED DOVETAIL ADAPTER (right Photo)
 Bracket mounts with flat head screws. Both are interchangeable with other manufacturers parts. Used on pivots, trays or any housings. Will mount on holes 1" to 1 1/4" apart. Both mount with a t-knob enabling you to quickly take you arms off the bracket. **Specify housing to receive proper screws.**



BA-AQW & BA-AQN

Base adapter - wide, for use on housing handles.
 Base adapter - narrow, for use on pivots and lights.
 Holes are 1 1/8" - 1 1/4" apart.
 Can be used with metric or US threads, **please specify what you are attaching it to.**

BA-SU & BA-SUD

SUBAL DOVETAIL & SUBAL DOVETAIL DOUBLE

Used with Subal Housings. The double one used on housings with only one mount or to add a spotting light.



BA-SV & BA-SA
BASE ADAPTER, SUBAL VERTICAL, SUBAL ANGLED

Bolts directly to any Subal housing



BA-IK & BA-IKT

Base adapter for the new Ikelite SLR quick release handle. Taller version will accommodate Ikelites TTL slave or manual controller

BA-SP

Replacement part for top of Subal housings- 6mm thread



UNIVERSAL ADAPTERS FOR BASE OR STROBE USE

Comes with female threads or bolt or stud for your specific use. Please specify.

AD-3816	Use on Ikelite handles (old style), Ultralight trays, Nikonos trays
AD-1420	For use with that size hole (i.e. Sartek lights or Gates housings)
AD-6mm	With stud for use on Subal housings for spotting light
AD-8mm	European use for 8mm threads (housings & strobes)
AD-1032	With Stud for some Light & Motion housings and lights
BA-HB	Ball with 1/4" bolt through the center, shorter than AD-1420 Will also accept a 6mm bolt, please specify (See below)

If you don't see your application or size listed, we can likely supply it. Specify female threads or type of male threads you need. (i.e. bolt or stud and the length needed). These adapters can be used as base adapters on trays, strobe adapters or adapters for anything that needs a ball at the end. If you have a Nikonos tray that came with your Nikonos V, our AD-3816 with a bolt will work. The AD-3816 with a bolt will work as a base adapter for our Ultralight single or double trays. The AD-8mm is used for many strobes that are purchased in Europe.

AD-3816, AD-1420, 6MM, 8MM, AD-1032 UNIVERSAL THREADED ADAPTER

Ball adapter with female or male threads, for attaching to any place there is a need for an adapter with the above sizes.



Your choice of hardware

BA-HB Handle ball

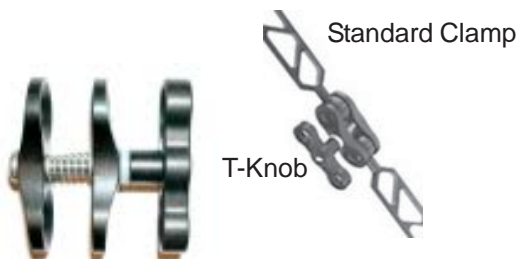
Ball with 1/4 bolt, for use with digital handle or as a universal 1/4" ball adapter



CLAMP PHOTOS

AC-CS CLAMP SET STANDARD

Shown with proper placement of two arms between clamp halves. T-Knob used to tighten or loosen clamp



AC-CSF NEW STYLE CLAMP

Allows 15 degree: to side movement



AC-TCS TRIPLE CLAMP

Used with the remote TTL Slave Adaptor, or any Spotting Light Adaptor. (Shown with a TTL adapter, a MS adapter & an arm.)

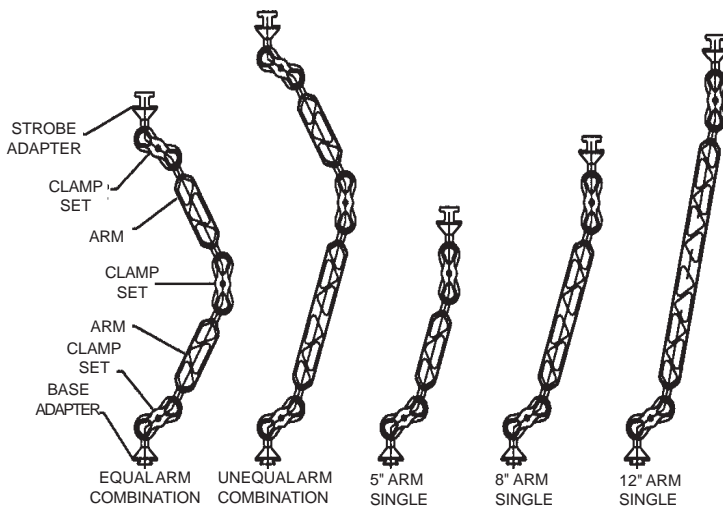


The clamps are what hold the ball ends together. They function much as your own arm joints function. Our system is designed for three clamps per arm side. This gives you the greatest flexibility of movement, i.e. you have a joint at your wrist, your elbow, and your shoulder. A regular or new style clamp holds two ball ends together, a triple clamp holds three ball ends together. When assembling your arms and clamps, place the ball ends in between **the identical parts** of the clamp and use the T-knob to tighten or loosen. It is easy to accidentally put the ball end between a clamp half and the T-knob. With our clamps you do not need to tighten them so tight that you have trouble loosening them underwater. The o-ring in the balls allows you to tighten the clamps much looser than other manufacturers clamps and the strobe will still be held in the position you want it in. Never put only two balls into a triple clamp as the bolt will bend.

ARM SEGMENTS: (drawings and photos below)

- DB-03 3" Double Ball Arm
- DB-05 5" Double Ball Arm
- DB-08 8" Double Ball Arm
- DB-12 12" Double Ball Arm
- DB-16 16" Double Ball Arm
- DB-B08 8" Double Ball Arm - Buoyancy
- DB-B12 12" Double Ball Arm - Buoyancy
- DB-B16 16" Double Ball Arm - Buoyancy
- SBSS-5 5" Single ball arm for Sea & Sea strobe
- SBSS-8 8" Single ball arm for Sea & Sea strobe
- SBDT-5 5" Single ball with dovetail (fits into BA-DB)
- SBNK-8 8" Single ball for Nikonos strobe

CAMERA & VIDEO ARM COMBINATIONS



**ARMS FROM 16 INCH
DOWN TO 3 INCH**

As illustrated above there are lots of combinations you can have for arms. The still photographer usually uses a double arm whether of equal lengths or unequal lengths. The videographer usually uses a single arm length (requires one less clamp)

Arm length is based on what type of photography you intend to do. If you only do macro then you want a small compact arm that will reach your subjects. If you do only wide angle then you want to get your strobes out away from the camera to lessen the backscatter that you get when your strobes light the water in front of the subject you are photographing. If you do both types of photography then you will need to figure the length that will give you the wide angle photography and not be in the way for macro work. The 8" arms are the most popular for both types of pictures.



**DB-B12, DB-B16, DB-B08
BUOYANCY ARMS**

A complete arm set of two 12" buoyancy arms weighs only 1/2 oz in water. (includes 3 clamps and strobe and base adapter)



**SBSS-5, SBSS-8,
SBNK-8, SBDT-5
SINGLE BALL
ARMS**

By using one or two of these, you have less clamps in your system; but you sacrifice flexibility

STROBE & VIDEO LIGHT ADAPTERS: (most photos below)

- AD-MS Ikelite 50, MS, MV, DS-50 Substrobes
- AD-Ai Ikelite 100, 100A, Ai Substrobes
- AD-150 Ikelite 150, 225, 300, 400 Substrobes
- AD-125 Ikelite DS-125 Substrobes
- AD-200 Ikelite 200 Substrobes
- AD-200A Alternative adapter for Ikelite 200 (photo below)
- AD-102 Nikonos 102 Strobes
- AD-103 Nikonos 103, 105 Strobes
- AD-104 Nikonos 104 Strobe
- AD-SS Sea and Sea Strobes, Olympus & Epoque strobes
- AD-SSL Sea and Sea Strobes, longer version
- AD-IN Inon strobes D-180, Z-220, Z-220s, Z-22, D-2000
- AD-LS For land strobes or Amphibico video lights (photo pg.9)
- AD-Mini-S For Light & Motion Sun Ray-S Mini video lights (6-32 thread)
- AD-SUN L&M Sun Ray-S Pro, Elite, Classic video lights, L&M Blue Fin & Mako housing base, or center of Titan housing
(short adapter with 10-32 bolt through the center of the ball)
- AD-HID L & M HID Light, larger base with 10-32 thread (same as AD-1032)
- AD-UK Underwater Kinetics (SunLight "D" or Light Canon) (photo pg.9)
- AD-NR NiteRider light adapter (photo pg. 9)



BA-LM
Light & Motion & Top Dawg
video housing adaptor



AD-SUN
Light & Motion
Sun Ray-S video light adaptor



AD-Mini-S
Light & Motion Sun Ray Mini-S video
light adaptor

AD-HID Light & Motion HID light



AD-102
Nikonos 102 Strobe,
AD-103
Nikonos 103, 105 Strobe,
Has a cut out to match the
strobe cut out

AD-104
Nikonos 104 strobe



AD-SS
Sea & Sea, Olympus &
Epoque Strobes
AD-SSL
Sea & Sea, Olympus &
Epoque Strobes, longer version



AD-IN
Inon Strobe adapter
for all their strobes



AD-MS
Ikelite MS, MV, 50, DS-50
Substrobes and flashlight brackets



AD-AI
Ikelite Ai or 100A Substrobes



AD-125
Ikelite DS-125 Substrobes



AD-150
Ikelite 150, 225, 300 or
400 strobe



AD-200
Ikelite 200 strobe



AD-200A
Alternate adapter for Ikelite 200.
Mounts without using the threaded
hole in strobe. Allows you to see
ready light and the switches when
mounted on an Ultralight arm.



AD-TTL
REMOTE TTL SLAVE ADAPTOR
Needs a triple clamp AC-TCS to
mount to Ultralight arms



AD-TTLd
TTL adapter to mount on the
top of new digital handle (TR-DH) or
on top of pivot for Olympus (CP-Oly)

MORE STROBE & VIDEO LIGHT ADAPTER PHOTOS



AD-LS LAND STROBE ADAPTER

Used for land strobes and some Amphibico video lights.



AD-UK UNDERWATER KINETICS

Sunlight D series or Light Canon HID lights



AD-NR NITERIDER LIGHT ADAPTER

Fits all NiteRider scuba/video lights



AD-SS

For Fisheye Fix modeling light

ACCESSORIES:

AC-CS	Clamp Set - Standard (holds two ball ends together)(photo pg. 6)
AC-CSF	New Style Clamp - Allows 15 degrees side to side movement of the arm. (holds two ball ends together) (photo pg. 6)
AC-TCS	Clamp Set - Triple (holds three ball ends together) (photo pg. 6)
AC-SEK	Sekonic Light Meter Clamp (fits in the arm set) (photo pg. 10)
AC-SEKB	Sekonic Light Meter Bracket (1/4-20 hole) (photo pg. 10)
AD-TTL	Remote Ikelite TTL Slave Adapter (requires AC-TCS-(photo pg. 6&8)
AD-TTLd	TTL adapter for digital handle (has a screw in the bot) (pg. 8)
AC-SLQ	Spotting Light Adapter (Designed for two UK Mini Q-40's)(photo pg. 10)
AC-USL	Universal Spotting Light Adapter (For most C-Cell flashlights) (pg.10)
AC-USLm	Universal Spotting Light Adapter mini (for most AA-cell lights (pg.10)
AC-SPL	For digital handle, mini light adapter with loc line (pg. 4)
AD-HS	Hot Shoe Adapter with Ball (photo pg. 10)
AC-H	Handle with ball (photo pg. 4)
AC-HQD	Quick Disconnect Handle with Ball (photo pg. 4)
AC-IK	Ikelite Mini-C flashlight holder with ball (photo pg. 10)
AC-FB	Mounting plates for top of housing handles, subal housings,
BA-FB	pivots, for mounting flashlights, sekonic meter brackets, etc.
BA-FBd	Plates with different size holes for mounting different adapters.Please specify (pg. 10)
AC-LR	Tool for depressing lens release button
AC-TRI	Tripod clamp for use our regular arms (photo pg. 10)
AC-IF	Ikelite Flash Meter bracket (need AD-1420 for a ball at the end)(pg.9)
O-rings	O-rings for ball (2-209 buna) Pack of 25
AC-ARM	Hardware to mount AD-1420 or AC-IK to the middle of an Ultralight arm for spotting lights or flash meters (photo below)

AC-IF IKELITE FLASH METER BRACKET

The bracket has a 1/4-20 threaded hole to attach a ball adapter to.It can be used in a triple clamp, or with a double clamp and another adapter. See photo to right, can be mounted to middle of arm



AC-ARM

Hardware to mount a ball to your Ultralight arm. Can be mounted in any of the triangle cut outs of the arm. AC-IF can be mounted to any place on the arm

MORE ACCESSORY PHOTOS



AC-TRI TRIPOD CLAMP

Shown Ultralight arms for legs. (Our triple clamp with cutouts for the arms. 1/4" bolt for attaching to a tripod socket.



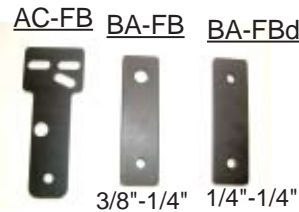
AC-FB Mounting plate

For use on housing handles, pictured here with a universal ball adapter, you then need a clamp and universal spotting light adapter



AC-SLQ SPOTTING LIGHT ADAPTER

For two Underwater Kinetics mini Q-40's

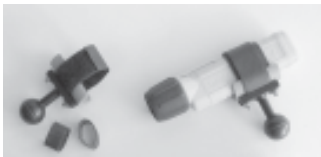


AC-FB Mounting plate

Numerous sizes with different size holes for mounting different adapters. (3/8 to 1/4 use on **Equinox** housings) (1/4 to 1/4 use on TR-DH digital handle)

AC-USLm UNIVERSAL SPOTTING LIGHT ADAPTER MINI SIZE

This adapters holds one "AA" flashlight like this mini-C. Comes with a piece of rubber to put on flashlight. Mounting instructions, see **USL** below



AC-USL UNIVERSAL SPOTTING LIGHT ADAPTER

For use with most 4 C-cell flashlights. Comes with two pieces of rubber to put on flashlight to keep light from rocking in base.



Mounting instructions:

Can be attached with a clamp and base adaptor to top of housing, to top of wrist support, to the hot shoe adaptor or in an arm set with a triple clamp, or in the middle of a Ultralight arm with a AC-ARM



AD-HS - HOT SHOE ADAPTER

Fits in the shoe of the Nikonos V, RS, Motor Marine and Sea and Sea housings for attachment of a clamp and a spotting light adaptor. *ULTRALIGHT is not responsible for any damage caused to camera's hot shoes as a result of using one of these adapters. No damage should occur under ordinary circumstances; but if camera is dropped or something heavy is dropped on light adaptor, damage could result to the camera hot shoe.*

AC-IK IKELITE MINI-C ADAPTER

For use with Mini-C flashlights for spotting. Can be attached with a clamp and base adaptor to top of a housing, to top of wrist support, to the hot shoe adaptor or in an arm set with a triple clamp



BA-PR - PORT RING ADAPTER

attaches to the Nexus port ring to allow strobes to be attached



AC-SEKB SEKONIC LIGHT METER BRACKET

Mounts with any 1/4" bolt to any tray or pivot



AC-SEK LIGHT METER CLAMP

Replaces a regular clamp on any length arm set



Mini-Battery Tester

Tests most batteries under "load" as if it was in your camera or strobe, so you know what power is really left in the battery.

PARTS CARE AND MAINTENANCE

Treat Ultralight parts just like your other underwater photo equipment. After every dive the best thing to do is thoroughly rinse everything in fresh water if possible. You can soak Ultralight products in hot soapy water or dilute vinegar water. There are a couple of products on the market that help remove salt build up. You can find these at your local dive store. If you use vinegar in the water, the finish may dull; but you have not hurt our products. Do not use it undiluted.

PERIODIC MAINTENANCE:

NUTS, BOLTS, AND SCREWS. Whenever you have two dissimilar metals in contact with each other you will have electrolysis. This is what happens in the case of aluminum and stainless steel. The aluminum becomes etched away and the nuts and bolts tend to freeze, making it difficult or impossible to remove them. We have found that wrapping the threads of screws and bolts with **Teflon plumber's tape**, found at your local hardware store, reduces electrolysis and removal of the screw, nut, or bolt a lot easier. If you are looking at the thread end make a couple of turns of Teflon tape in a clockwise direction, while stretching it slightly. Also it is best to remove all stainless steel nuts, bolts, screws, etc. periodically to clean the threads and keep them from freezing up. A good soaking is a good idea after a long dive trip, then a tooth brush for anodized parts and a wire brush for the stainless parts. Do not put teflon tape on the screws that are in the clamp.

PIVOTS. The only thing you need to do for pivot maintenance is keep it clean and occasionally lubricate it. To do this remove the two phillips screws that hold the camera pivot base to the back, remove the large white nylon washer. Clean out the inside and lubricate with silicone grease, wire brush the threads on the screws, grease the large washer and screw the pivot base back on.

CLAMPS. If you remove the clamp T-knob, clean the threads of the stainless bolt with a wire brush. You will not be able to remove the stainless bolt from the clamp half. It is glued in. Place a small amount of silicone grease on the ends of the threads before you put the T-knob back on.

Remember, if you keep Ultralight parts clean and lubricated they will give you years of service and happy picture taking.

The o-rings in the ball ends do not need to be replaced just because they are cracked. We suggest that you replace them when they start to lose pieces out of them or you feel your arms are not holding as well. Contact your local dealer for replacements or go to a store that sells o-rings and purchase Buna type # 2-209. Lowes, Home Depot carry them in one-packs from Danco # 95. (The size is 15/16 X 11/16 x 1/8). Take the o-ring and stretch it over the ball and into the groove. If you lose the o-ring while on a dive the clamp will still work; but you will have to tighten it since the o-ring is gone. We sell them in packs of 25 or 100.

WHAT OUR CUSTOMERS SAY

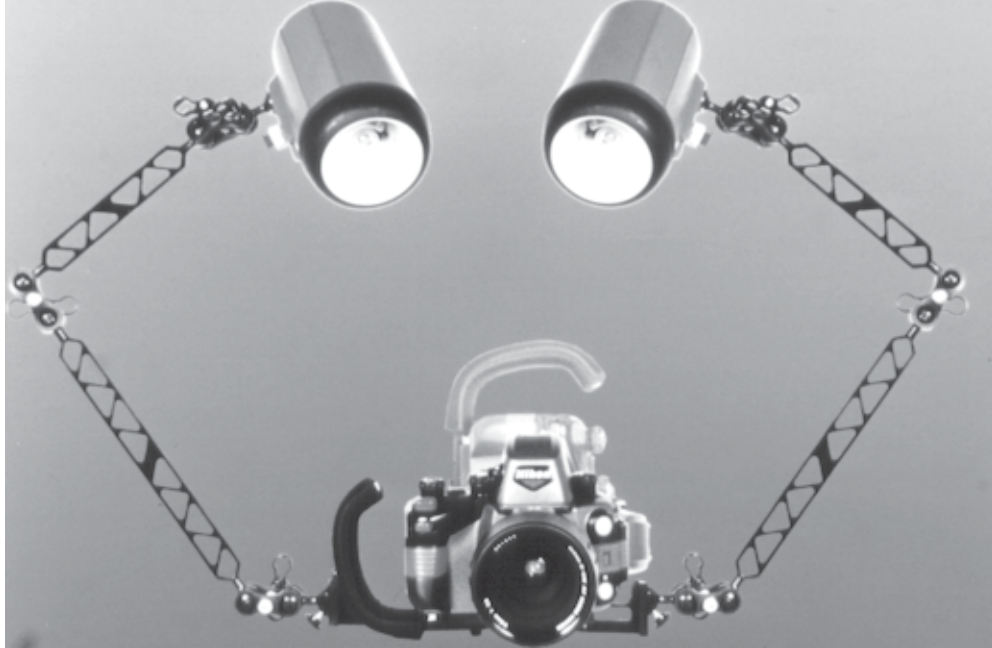
"Your wonderful arms have solved all of my strobe arm problems. They are easy to move for creative lighting, yet stay steady in the water. The large knobs are easy to adjust, and the buoyancy arms allow me to hold my heavy systems even with a sore shoulder. Nothing else comes close to what your arms accomplish." **CATHY CHURCH**

"I have tried many systems to carry my underwater strobes and only the one from **UltraLight** has performed reliably for me in all conditions. It has proven to be light, easy to control and provides me with a lock on the positioning of the strobes." **AMOS NACHOUM.**

"Most strobe arm systems are rigid and as a result permit almost no strobe repositioning. The solution is a modular strobe arm support system that allows you to reposition the strobes at will. The UltraLight strobe arms are light and my preference is for the buoyancy arms. The camera pivot allows me to switch INSTANTLY from a horizontal to a vertical composition. It seems strange to me that although there is no doubt that in photography "light" and "direction of light" are perhaps the most crucial parameters to a good photo, most underwater photographers seem to pay little attention to the versatility of their strobe arm positioning." **CONSTANTINOS PETRINOS**

ULTRALIGHT

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