

Emerald Diving H2Ov Video Light System Instructions

Congratulations on your purchase of the Sartek mini LED video lighting system. These lightweight, high output LED video lights are a great addition to the H2Ov underwater video system, as well as other video cameras. This light also makes an effective modeling light for digital cameras.

Included With Each Light (dual system include 2X of the following)

- Sartek mini-LED 500 lumen video light with collar and clamp
- Loc-line video arm (6") with adapter block and hardware (pre-assembled)
- Two 3.4V Li-Ion battery cells
- Li-ion battery charger

Video Light Specifications

- Output: 500 lumens per light
- Beam: 120 degree flood
- Light Temp: 6000K
- Burn Time: Approximately 1.5-2 hours at full output, 4-6 hours of usable light
- Battery Cell: Single 3.4V Li-ion
- Dimensions: 1" diameter x 4.5" length
- Weight: 0.25 lbs.
- Depth rating: 1000'
- Switch: Twist to activate/deactivate
- Body Material: Delrin
- Seal: Double O-ring
- Manufacturer: Sartek Industries
- Manufacturer's Warranty: Limited lifetime (except charger and battery)

Mounting Options

The mini LED light video arms are designed to be mounted to a flat surface using a ¼" 20 bolt. The arms may be mounted directly to the H2Ov housing (optional acrylic ¼" 20 mounting blocks required) or used in conjunction with the optional custom stay-base specifically designed for the H2Ov and other small video cameras. Please note the loc-line arms can be made longer or shorter to suit your needs by adding or subtracting segments. Please contact www.emeralddiving.com for further information.



Stay-base mount



Direct mount

Stay-base mounting: This is the preferred mounting method for the video lights if the H2Ov is intended to be hand-held. The stay-base allows for two hand-video operation and will produce more stable video for most divers. The stay-base also serves as a very efficient platform for not only the H2Ov, but also the video lights which mount to the top of the stay-base handles. The custom stay-base for the H2Ov can be purchased for \$49.99 from Emerald Diving or your local H2Ov dealer and features Delrin construction with contoured rubber grips and stainless steel hardware.

Direct Mounting: Direct mounting of the video light to the H2Ov housing is an alternative if the H2Ov is primarily used when mounted to another apparatus, such as an underwater scooter or DSLR camera housing. Although it is possible to use this lighting system with the H2Ov hand-strap, it is not recommended as the extended arms can be a bit cumbersome for some divers to dive with.

A ¼” 20 acrylic mounting block must be purchased for each light if you are mounting the lighting system directly to the H2Ov case. Mounting blocks are available for \$19.99 (each) from Emerald Diving or GMS Concepts. We recommend placement of the acrylic blocks immediately in front of the rear hatch clasps. Make certain to position the acrylic mounting blocks when the clasps are locked so you have enough room to release the clasps. There should be just enough room to place the acrylic mounting block and operate the clasp without having to reposition the front lens guard. It will be tight, however.



H2Ov pictures with two adhesive acrylic mounting blocks for video light arms. Placement of the block is key to assure proper operation of the latch and front guard.

As always, make certain the adhesion area on the H2Ov is warm, dry, and clean before adhering the acrylic mounting block.

Video Arm Drains

The loc-line video arms are hollow and do come apart and snap back together. The water pressures associated with scuba diving often result in water being forced into the arms. To facilitate quick draining of these arms after removal from the water, each arm has two drain holes.

Charger Operations

The included Li-ion battery charge typically charges batteries in approximately 4 hours. This charger is suitable for 110V to 240V power. The LED status light on the charger indicates the following conditions:

No Battery: **Green** LED

Battery Charging: **Red** LED

Battery Fully Charge: Alternating **red/green** LED

Video Tips

- Make certain the video lights are positioned so they do not shine directly into the lens of the camera.
- These video lines should start illuminating subjects about 6-8 feet away (depending on water clarity and ambient light). However, the intensity of the light will increase greatly as that distance is decreases. As the ContourHD cameras incorporate a wide-angle lens, get as close as you can to your subject (to within 18”) to get the most out of your video lights.
- Make certain your video lights are position to give you a wide field of view. Generally speaking, the light cast from the video lights should overlap by no more than 1/3 for best results.
- It is hard to compete with the sun! If you are shooting video in waters with bright ambient light, you will not see much benefit with video lights – especially if shooting video into the sun. Where video lights really excel is in situations where the subject is in a shaded area or when you get close to the subject.