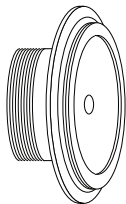


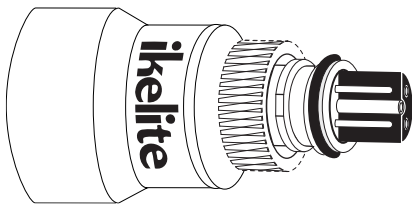


# Optical Slave Converter #4403

## instruction manual



Fiber Optic Port



Optical Slave Converter

Congratulations on your purchase of the Ikelite Optical Slave Converter. Ikelite has decades of experience in the underwater photographic, video, and lighting market. Our products are designed and built in the USA by Ikelite for both the professional and amateurs alike. Please read this instruction manual completely before using this product.

### Included in Box

- Optical Slave Converter
- Fiber Optic Port (attached to converter)
- Connector Protector
- Silicone Lubricant

### Specifications

Length without connector protector.....2.7 in (6.9cm)

Maximum Diameter.....1.3 in (3.3cm)

Weight.....1.6 oz (45 g)

Depth Rating.....300 ft. (90m)

## Information

- Trigger your Ikelite DS-series strobe off any camera or strobe flash. The Optical Slave Converter simply attaches to the strobe's electrical bulk head in place of a sync cord connector. The enlarged slave window provides approximately 90 degrees field of view for remote triggering. Or thread on the included Fiber Optic Port for the attachment of and triggering via a fiber optic cord.
- The Optical Slave Converter automatically configures itself for compatibility with both pre-flash and non pre-flash camera modes. No setting of small switches or confusion over number of pre-flashes. Simply turn on your strobe and take one picture to configure.
- The Optical Slave Converter can be extended using the optional 3-foot Extension Cord for creative backlighting in wrecks, caves, and pool studio set-ups. It can also be used above water for studio photography work.
- The Optical Slave Converter supports manual exposure modes as set on the attached DS strobe. TTL exposure mode is not supported. An individual Optical Slave Converter is needed for each strobe. Use of multiple strobes requires one Optical Slave Converter per strobe. DS50 and DS125 strobes may also be used with the Optical Slave Converter.

## Attaching the Optical Slave Converter Directly to a DS-series Strobe or Ikelite Extension Cord

1. Unscrew the Plug Lock Retainer on the converter and remove the black Connector Protector.
2. Using the included Silicone Lubricant, lightly coat the converter's o-ring using your finger tip. This step reduces friction and keeps the o-ring from rolling so only apply enough to make the o-ring wet/shiny.
  - Excess lubricant can collect sand and dirt which may interfere with proper sealing and can be wiped away using a clean lint-free cloth.

## Attaching (continued)

- Only use Ikelite branded Silicone Lubricant. Other brands may cause the o-ring to swell and not seal properly.
  - Never use spray lubricants as the propellant ingredient can cause cracking of plastic and swelling of the o-ring.
3. Align the pins and receptacles to insert the converter and hand tighten Plug Lock Retainer, see diagram **A**.

## Removing/attaching the Fiber Optic Port

1. Unscrew the Port counterclockwise to remove it from the Converter and expose the window/sensor.
2. Screw the Port clockwise onto the Converter to shield the sensor and provide an attachment point for fiber optic sync cords.

### Fiber Optic Compatibility

- IKELITE Fiber Optic Coiled Cord 4501
- SEA&SEA Fiber Optic Cable (L-type) Product No. 50107
- Olympus UW Fiber Optic Cable PTCB-E02
- INON Optical D Cable "Non-wireless type" L-Connector \*
- Nauticam Optical Fiber Cable No. 26211 Nauticam to INON
- Nauticam Optical Fiber Cable No. 26212 Nauticam to SEA&SEA

\* INON Optical D Cable "Wireless type" L-Connectors may be converted to "Non-wireless type." Contact INON for details. Components needed for modification are provided by INON and not available through Ikelite.

## Usage

1. Turn on the DS-series strobe that the Converter will be triggering.
2. Set the origin flash to a "force flash" setting. Use of an "auto" or "red-eye reduction" camera setting may result in intermittent flash operation. Refer to your camera instruction manual for more information on this.

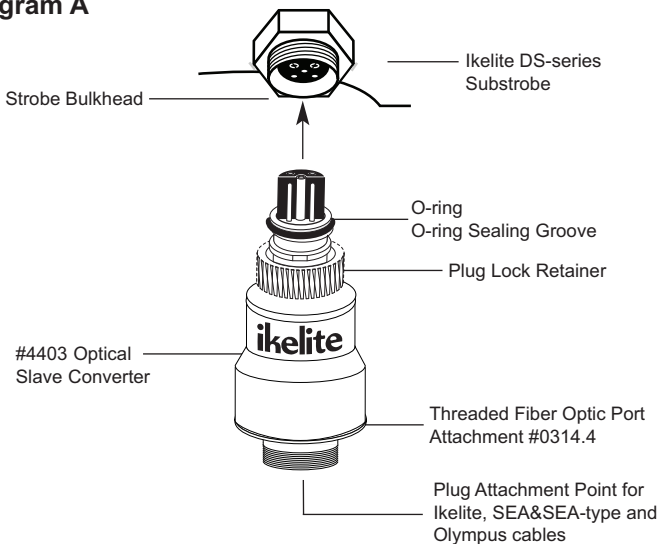
## Usage (continued)

3. Take one picture with the origin flash to configure the Converter. The first picture may be dark if your camera does not fire a pre-flash. This is normal. The Converter must be configured by taking one picture each time the strobe is turned off or back on. The Converter does not need to be configured if the camera turns off or enters a power-saving mode.

Canon users: Some Canon cameras (G series and S series) cancel the pre-flash when used in manual mode. When switching these cameras from an automatic mode to manual mode or back, the strobe will need to be turned off and back on again to reconfigure the adapter.

4. Adjust exposure using the manual power settings on your DS-series strobe. Do not use "TTL" mode on the DS-series strobe. The Optical Slave Converter does not provide TTL operation.

## Diagram A



## Maintenance and Tips

- Before using the Converter, always check tightness of the plug lock retainer that secures the adapter to your Ikelite DS-series strobe or Ikelite Extension Cord.
- Keep the adapter o-ring clean and lightly lubricated. Apply only enough lubricant to make the o-ring feel slick. The light coating of lubricant will help to keep the o-ring from drying out and will help adapter insertion into the strobe bulkhead. It is not necessary to remove the o-ring from the o-ring sealing groove unless debris is present in the groove. Be careful not to gouge the o-ring or the o-ring groove during removal. The o-ring should only be removed with a toothpick or other non-metallic item. Always keep the o-ring groove and the sealing surface of the strobe bulkhead clean.
- BEFORE disconnecting the adapter from the strobe, rinse the adapter exterior and strobe thoroughly in freshwater after each saltwater use. Dry with a soft cloth. Remove adapter, replace the connector protector, and store safely.
- DO NOT immerse the adapter in water unless it is properly connected to a DS-series strobe or Ikelite Extension Cord.
- Loosen the Connector Protector during long periods of storage.
- The Connector Protector is not a waterproof cap. The Converter should not be submerged with the Connector Protector in place.

# Troubleshooting

<b>Problem</b>	<b>Solution</b>
Strobe does not fire	<ul style="list-style-type: none"><li>- Check to see that the strobe is turned on and the battery is charged.</li><li>- Check to see that the camera flash is firing.</li><li>- Double check connections between the strobe, connector, and cable.</li><li>- Make sure the fiber optic cable is not damaged or broken and is pointed directly at the camera flash. Some fiber optic cables are very fragile. Too sharp of a bend can result in a break inside the cable.</li><li>- Contact Ikelite Customer Support, see page 7.</li></ul>

<b>Problem</b>	<b>Solution</b>
Strobe fires at the wrong time or intermittently	<ul style="list-style-type: none"><li>- Converter is configured improperly. Turn strobe off and back on, and take a flash photo to re-configure the converter. The first flash may be timed improperly as the converter configures itself. Subsequent strobe flashes should be timed correctly.</li><li>- Check connection points.</li><li>- Make sure one end of the fiber optic cable is pointed directly at the camera's flash.</li><li>- Check camera flash settings. Do not use "auto" or "red-eye reduction" flash modes.</li><li>- Contact Ikelite Customer Support, see page 7.</li></ul>

## Troubleshooting (continued)

Problem	Solution
Image is over- or under-exposed	<ul style="list-style-type: none"><li>- Check that strobe is turned on and battery is charged.</li><li>- Check connection points. Switch to higher or lower manual power setting on strobe (if available).</li><li>- Change camera shutter speed or aperture.</li><li>- Move closer to or further away from the subject.</li><li>- Strobe is in the "TTL" setting. Switch to a manual power setting.</li></ul>

## Replacement and Spare Parts

- #5020 Lube (contains 4 - 1cc tubes)
- #0301.12 Connector Protector
- #0136.13 O-ring
- #0314.4 Fiber Optic Port

## Ikelite Limited Warranty

This product is warranted against any manufacturing defects for a period of one year from the original date of purchase. Defective products should be returned prepaid to Ikelite. Ikelite will, at its discretion, repair or replace such products, and will return to customer prepaid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied, applies to this Ikelite product.

## Ikelite Customer Support

Email: [ikelite@ikelite.com](mailto:ikelite@ikelite.com)

Phone 317-923-4523

Fax 317-924-7988

## **Returning Products for Service**

Please refer to the Troubleshooting section (pages 6-7) before returning the Fiber Optic Adapter for service. Ikelite products may be returned directly to the factory for service. No advance notice or return authorization is required to obtain service. All shipments must include a brief cover letter stating your name, shipping address, email address, telephone phone number, and brief description of the work request. Please also include a copy of the original purchase receipt to obtain warranty service.

Send Postage Pre-paid to:

**Ikelite Underwater Systems**  
**Attn: Service Department**  
**50 West 33 Street**  
**Indianapolis, IN 46208 USA**

No reimbursements for return freight will be issued.

## **Returning Products for Service (outside the United States)**

For the separate international customs documentation form that you complete to accompany the shipment, please state or designate that the enclosed products were originally manufactured in the USA and are being returned to the manufacturer for repair service. Value of the equipment listed for customs purposes should be zero.



**Ikelite Underwater Systems**  
**50 West 33rd Street**  
**Indianapolis, IN 46208 USA**