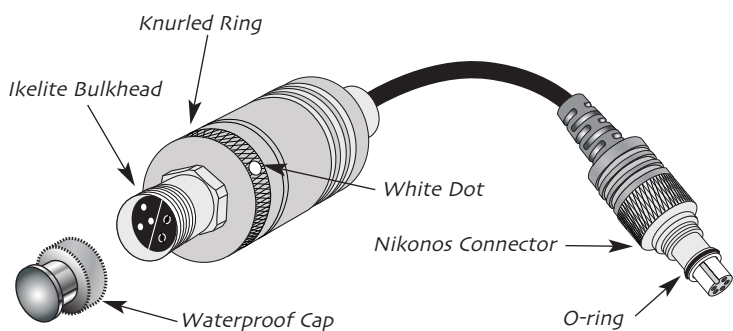


# Ikelite iTTL Adapter #4302

## instruction manual

For Nikon & Fuji Digital SLR Cameras in Non-Ikelite Housings



The Ikelite iTTL Adapter is for use with Non-Ikelite housings with a TTL hot-shoe & Nikonos-style bulkhead. The hot-shoe must have all 5 wires connected. Refer to housing specifications or contact housing manufacturer for connector style and wiring information.

The Adapter offers both TTL and Manual operation. Exposure compensation is not provided through the Adapter, but can be accessed via the camera's menus.

The Ikelite iTTL Adapter is compatible with the following Digital Cameras; Nikon D40, D50, D70, D70s, D80, D200, D300, D300s, D700, D3000, D5000, D60, D90, and Fuji S5 Pro.

The Ikelite iTTL Adapter is **NOT** compatible with the following Nikon Cameras; D-100, D-1X, D-2X, D-2H.

### Connecting DS Substrobes

Use ONLY with Ikelite DS Substrobes. If using an older DS50 or DS125 strobe, see strobe compatibility below.

- Make sure all components are dry.
- Remove the waterproof cap from the Ikelite bulkhead on the black delrin pod. Lightly lubricate bulkhead threads.
- Clean and lightly lubricate the o-ring on the male Ikelite connector. Check o-ring for cracks or nicks.
- Note the positioning of the receptacles and pins. Properly align the end of the Ikelite sync cord connector and insert it into the adapter's bulkhead (page 2).
- **Hold the adapter's knurled ring when tightening the sync cord.**
- Hand tighten the knurled ring on the sync cord until there is no in-out movement between sync cord connector and adapter bulkhead.

*Single or Dual Ikelite sync cords can be attached.*

*Dual strobe use requires dual sync cord.*

*Two strobes cannot be operated by independent adapters.*

### Strobe Compatibility

#### DS50 Substrobes

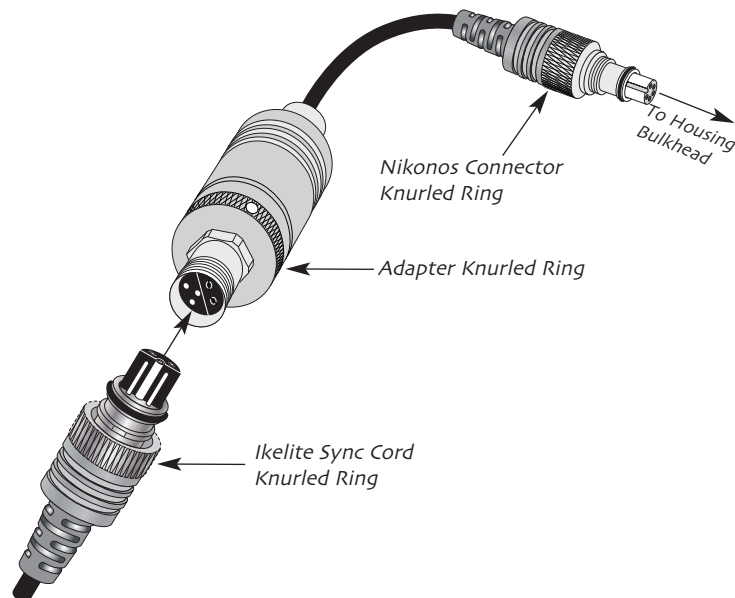
Substrobes with Serial Number below 63,850 can Not be updated to operate correctly with the latest TTL conversion circuitry. Substrobes with Serial Number between 63,850 and 69,999 require an update to operate with the latest TTL conversion circuitry.

#### DS125 Substrobes

Substrobes with Serial Number below 2,500 can Not be updated to operate correctly with the latest TTL conversion circuitry. Substrobes with Serial Number between 2,500 and 4,999 require an update to operate with the latest TTL conversion circuitry.

### Connecting Adapter to Housing Bulkhead

- Make sure all components are dry.
- Clean and lightly lubricate the threads and o-ring on the male Nikonos connector. Use ONLY Ikelite lube. Other brand lubricants can cause the o-ring to swell and not seat properly. Check o-ring for cracks or nicks.
- Properly align the Adapter's male Nikonos connector and insert it into the housing's Nikonos-style bulkhead.
- Hand tighten the knurled ring on the Nikonos connector until there is no in-out movement between connector and housing bulkhead.



### Switching between TTL and Manual

- The knurled ring on the iTTL Adapter's black delrin pod has a white dot (see illustration on front page).
- The knurled ring can be rotated clockwise or counter-clockwise to align the knurled ring's white dot with the white dot on the label next to TTL or Manual.
- **The DS Substrobe must be set to TTL mode for the iTTL adapter to provide TTL operation.**

### Housing Bulkhead Compatibility

Over the years various housing manufacturers have introduced a variety of "Nikonos-style" bulkheads with variations on the original contact design. The plug end on this iTTL Adapter has been designed to prevent damage by some European housings with rigid contacts in place of the traditional spring-loaded style.

This design may exhibit intermittency with some more traditional Nikonos-style bulkheads. Two gold plated pins have been provided to eliminate this intermittency. These pins should only be used in conjunction with bulkheads featuring two spring-loaded contacts.

To see if your housing has spring-loaded contacts, use an open-ended paper clip to gently push down on the contacts shown in Diagram A - page 5. Very little pressure is needed to check the contacts. If the contacts ARE spring-loaded, proceed to the directions on page 5 for inserting the included gold plated pins.

These pins are specifically recommended for use with the Nikonos-style bulkhead featured on Nauticam housings.

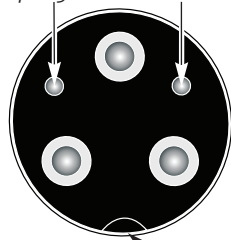
If your housing does NOT feature spring-loaded contacts, DO NOT insert the included pins into your plug end. Doing so may cause damage to your plug and/or bulkhead.

## Troubleshooting/Inserting Pins

- If intermittent or loss of TTL operation occurs, insert the 2 gold plated pins into the Nikonos Connector End corresponding receptacles as shown below. With the Index Groove at the bottom, the pins should be at the 10 and 2 o'clock positions. Once the pins are installed they should not be removed.
- Connect the Adapter to the housing bulkhead (See page 2).

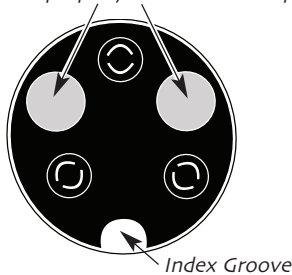
**Diagram A**

*Nikonos Housing Bulkhead*  
*Spring-loaded Contacts*



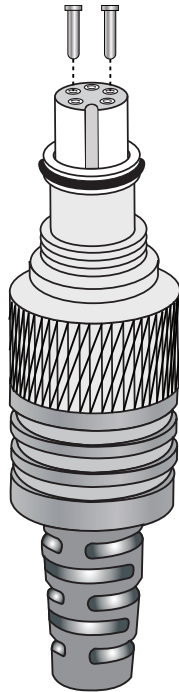
**Diagram B**

*Nikonos Connector End*  
*Gold-Plated Pins properly inserted in Receptacles*



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*Gold-Plated Pins*



## Ikelite Limited Warranty

All Ikelite products are 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. Housing is pressure tested and warranted to 200' (60m) maximum underwater depth. Except as mentioned above, no other warranty expressed or implied, applies to this Ikelite product.

## Returning Products for Service

Ikelite is most interested in performing any service to ensure that all products perform as intended. Evidence of purchase date must be provided to obtain warranty service.

No prior authorization is required. You may return directly to us or through your dealer. Please include a brief description of the problem, any relevant e-mail correspondence, and/or instructions on what you want us to do. Always include name, shipping address, e-mail address, and phone number inside of the package.

You may also want to insure the package.

Send Postage Pre-Paid to:

Ikelite Underwater Systems  
ATTN: Repair Dept.  
50 West 33 Street  
Indianapolis, IN 46208 USA

No reimbursements for return freight will be issued.

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## 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.

## How to contact Ikelite if necessary

E-mail: [ikelite@ikelite.com](mailto:ikelite@ikelite.com)  
Phone 317.923.4523  
Fax 317.924.7988



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