



# DL5 DS Link Canon TTL Converter Ikelite CT1 Hotshoe B1A Bulkhead Kit

Product # 46076

## Video Tutorial

<https://www.ikelite.com/watch-46075>

Visit the link above or scan the QR code to see how to program your DS Link TTL Converter.



## Included in the Box

- DL5 DS Link Canon TTL Converter # 46074
- CT1 Canon TTL Hotshoe # 46073
- B1A Bulkhead # 46002

## Important Notices

- » **Use of this product with a nickel plated brass (silver colored) sync cord or bulkhead may cause connectors to permanently seize together. Separate and lubricate connectors after each day of diving to prevent seizure.**
- » **Use of two strobes requires a dual sync cord. Two strobes cannot be controlled by individual converters even if the housing is equipped with two bulkheads.**

## Compatible Strobes

- Ikelite DS160, DS161
- Ikelite DS125 above serial number 5000
- Ikelite DS51
- Ikelite DS50 above serial number 70000
- Ikelite DS200 above serial number 7163
- » **SEA&SEA, INON, Nikonos, and other Ikelite non-DS strobes are not capable of powering the DL5 DS Link TTL Converter and are not compatible with this product.**

## Programming & Settings

Camera	Program
100D Rebel SL1	6
200D Rebel SL2	6
250D Rebel SL3	1
5D II	2
5D III	2
5D IV, 5DS, 5DS R	1
6D	3
6D II	1
70D	5
750D Rebel T6i	5
77D	5
7D	6
7D II	3
800D Rebel T7i	5
80D	5
850D Rebel T8i	5
90D	7
M6 II	5
M50 I, M50 II	8
R	4
R5	4 w/ mech. shutter 8 w/ electr 1st curtain
R6, R6 II	4
R7	5
R8	5
R10	5
R100	8
RP	7

## Programming the Converter

1. Refer to the chart above to find the correct program number for your camera model.
2. Attach a compatible Ikelite DS strobe via sync cord. If using a dual sync cord, attach a strobe to the coiled cord without a red band on it.
3. Press and hold the pushbutton on the DL5 converter. While holding the button, turn the strobe on. The LED indicator on the DL5 will blink a blue light. The number of blinks will indicate the program number currently set. Factory default is program # 1 (one blink).
4. Continue to hold the button until the indicator LED blinks red three times. Keep holding the button as the DL5 cycles through the program settings.

5. Each program 1-8 will be indicated by the same number of blinks in blue. One blink for Program # 1, pause, two blinks for Program # 2, pause, three blinks for Program # 3, pause, and so on.
  6. Release the button when the indicator blinks the number of times corresponding to the desired program.
- » **The DL5 remembers the program setting after the strobe is turned off and back on. It is not necessary to reprogram the DL5 unless a different camera model is being used.**
- » **To check the program setting, repeat steps 2-3.**

## Setting Your Camera

Refer to your camera and housing instruction manuals for recommendations on flash settings for external strobes. In general:

- **External Speedlight control** must be set to Flash firing - Enable.
- **Auto Lighting Optimizer** must be set to Disable.

If you are having trouble getting your strobe(s) to fire or expose properly we recommend restoring your camera to factory default settings and making sure the hotshoe is pushed all of the way forward.

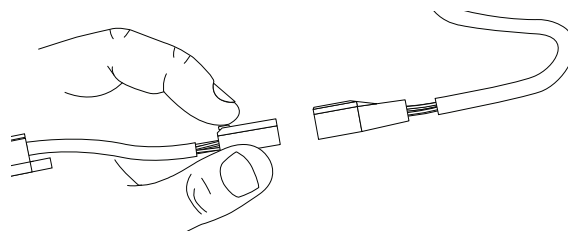
## Installation and Use

### Installing the B1A Bulkhead

7. Carefully remove the accessory port plug using an 11/16" wrench.
8. Remove the nut from the end of the bulkhead with the cord coming out. Check that the sealing surface and o-ring on the bulkhead are clean. No lubricant is necessary.
9. Thread the bulkhead into the 1/2-20 hole in the top of the housing being careful not to cross-thread.
10. Use an 11/16" wrench to carefully tighten down the bulkhead just until it touches the case. Do not over-tighten.
11. Re-attach the nut on the inside of the case. Tighten snug with a 5/8" wrench.

### Installing the CT1 TTL Hotshoe

1. Depress the tab on the manual hotshoe connector and gently pull connector ends apart to remove the housing's manual hotshoe.

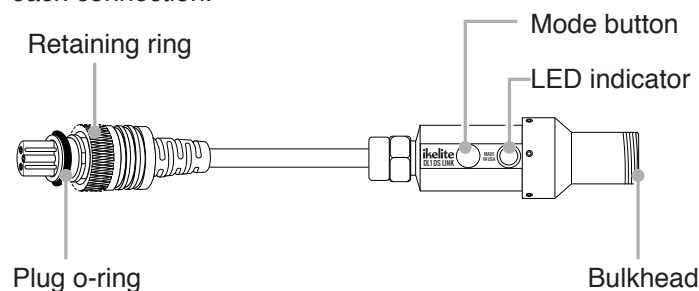


2. Align TTL hotshoe and bulkhead connector ends and push together until tab clicks into place.
3. Push hotshoe forward into camera's hotshoe mount. Make sure that the hotshoe is all the way forward to ensure proper connection.

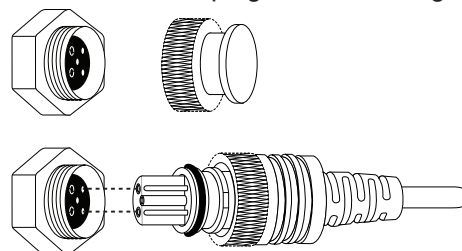
» **The CT1 TTL Hotshoe is only intended for use with compatible Ikelite brand housings.**

### Attaching the Converter

1. Remove connector protectors and bulkhead caps from each connection.



2. Apply a very thin, even layer of lubricant on all threads, sealing surfaces, and the exposed portion of the plug o-ring. Do not allow lubricant to get into the pins and receptacles of the plug or bulkheads.
3. Align plug and insert into the housing bulkhead. Each male pin mates with a female receptacle. Failing to line up the contacts properly before tightening may result in damage to the converter plug and/or housing bulkhead.



4. Hand-tighten the retaining ring.

5. Attach a compatible sync cord to the converter using the same method. Hold the converter while tightening the sync cord retaining ring.
6. Attach a compatible strobe(s) to the sync cord.

## Shooting with TTL Strobe Exposure

1. Turn strobe on. When turned on the DL5 DS Link will be in TTL mode. The LED indicator glows blue in TTL mode.
  2. Set the strobe to TTL.
  3. Exposure compensation may be added or subtracted through the camera's menus. Refer to your camera instruction manual for more information.
- » **It is only possible to toggle between TTL (blue LED) and Manual (red LED) when a camera is connected.**
- » **An incorrectly mounted hotshoe may prevent toggling between TTL and Manual.**

## Shooting with Manual Strobe Exposure

1. Push the mode button on the side of the converter. The LED indicator light will change from blue to red.
2. Set the strobe to full or a fractional power setting.
3. Adjust strobe power settings as necessary for each photo.
4. To revert to TTL operation push the mode button and set your strobe to TTL.

## Maintenance and Storage

### Post-Dive

1. Submerge the fully assembled system in clean, fresh water after each use. Press the mode button several times while submerged.
2. Remove the system from the rinse tank and flush with running fresh water.
3. Dry the system with a clean, lint-free cloth.
4. Separate the components and lubricate the threads and o-ring(s) every 2-3 days during continuous use.

### Travel and Storage

1. Separate the converter from the sync cord and housing.

2. Wipe off the threads of each bulkhead and retaining ring using a clean, lint-free cloth.
3. Lightly lubricate all o-rings, threads, and sealing surfaces.
4. Attach the connector protector and waterproof bulkhead cap to converter ends.

## Troubleshooting

<https://www.ikelite.com/blogs/faq/ttl-testing-and-troubleshooting>

## Limited Warranty

This Ikelite product is warranted against any manufacturing defects for a period of one (1) year from the original date of purchase. To obtain warranty service, the product must be returned to Ikelite postage paid. Ikelite will, at its sole discretion, repair or replace such products, and will return to customer postage paid. All other claims of any nature are not covered. Except as mentioned above, no other warranty expressed or implied applies to this Ikelite product.