



USER GUIDE

ANGLERFISH TRIGGER V2.0



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Revision Sheet

REVISION NUMBER	DATE	DESCRIPTION
REV A	DEC 2016	DRAFT
REV 0	JAN 2017	ISSUED FOR PRINT
REV 1	MAY 2017	UPDATED FOR V2.0



Quick Start

Make sure you have all the items listed below:

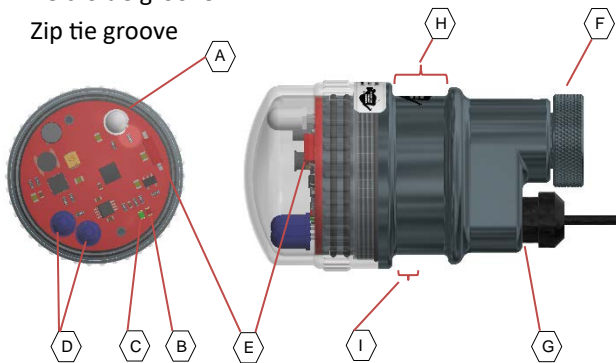
1. Anglerfish Trigger V2.0
2. Nikonos bulkhead cap
3. USB A male charge cable
4. 5V DC, 1A USB charger, with interchangeable AC pins
5. Operation manual, user guide
6. Optical or electrical sync cable (not included*)

*You will need an optical sync cable or an electronic flash sync cable with a Nikonos 5 pin connector to connect the Anglerfish Trigger to the remote strobe.



Features

- A. Menu LED (Red, Blue, Purple)
- B. Charging LED (Amber)
- C. Charge complete LED (Green)
- D. Flash sensors
- E. Magnetic switch (mode switch)
- F. Nikonos bulkhead c/w cap
- G. Sea & Sea type optical bulkhead
- H. Velcro tie groove
- I. Zip tie groove



Optical Sync Cable

The Anglerfish Trigger can trigger a remote strobe via an optical bulkhead. The optical bulkhead is located on the back of the trigger. This feature allows the trigger to connect to virtually any strobe including ones without electronic sync cable connectivity. Be sure to use high quality multi-core 613 fiber optic cable with Sea & Sea plug. Cheap, low quality single strand cables will result in high attenuation of light and reduction in the trigger's performance. Avoid bending the fiber optics cable. If possible, use the shortest cable available.



Electronic Sync Cable

Anglerfish Trigger is also equipped with a Nikonos™ cable bulkhead to trigger the remote strobe electronically. Only use genuine Sea & Sea brand Nikonos cables or similar cables with a Nikonos 5 pin connector. Flooding the Nikonos bulkhead will not damage the trigger since the connector is sealed from the rest of the housing. Furthermore, the connectors are hard gold plated to provide excellent corrosion free contact. However, to prolong the trigger's service life, prior to each use, make sure the o-rings are free of any sand or debris and that they are lubricated with the manufacturer's recommended silicon lubricant.

Turning On

The Anglerfish Trigger is equipped with an acceleration switch that is used to turn the unit on or off. To wake up the trigger from sleep mode simply hold the trigger in one hand and strike your wrist against your other hand. The impact will



wake up the trigger. The impact must be axial in the direction as shown in the figure below.



Once a large enough impact has occurred, the menu LED will then light up **purple** momentarily. Shortly after, the LED will blink twice (in **blue** or **red**) to indicate subsequent impacts are required to fully turn on the unit. By impacting the trigger twice more, the trigger turns on. For every impact the menu LED will light up **purple**. If the shock due to impact is



not strong enough the menu LED will not light up and the trigger will go back to sleep mode in 3 seconds to conserve power. This power up sequence prevents the trigger from turning on its own while subject to random shock. Once turned on, the trigger will automatically turn off after 2hrs of operation.



Turning Off

To turn off the trigger simply follow the same procedure as required for turning on the unit.



Switching Modes

The trigger has two modes: **red** and **blue**. The **red** mode is used only when the trigger is utilized with the electronic sync cable. The **blue** mode allows the user to utilize both the optical cable and the electronic sync cable. To switch between modes simply hold a small magnet against the magnetic switch area while the unit is powered up. The menu LED should turn **purple** until the magnet is released, after which the trigger mode changes.

The trigger sensor is very sensitive and in some situations the flash from the **red** LED will be detected by the trigger resulting in false trigger. In this situation, its recommended to use the **blue** mode.

Low Battery Indicator

If the trigger's battery power is low, the trigger's menu LED will blink **red** and **blue** for five cycles and the trigger will



enter the sleep mode. To operate the trigger, the trigger must be charged.

Care & Maintenance

After each salt water dive, your trigger should be soaked or rinsed in fresh water. The trigger should soak in fresh water for at least 30 minutes.

Charging

The Anglerfish Trigger can be charged by a standard USB A plug. Simply remove the Nikonos connector cap or the sync cable and plug in the provided power cable. If the trigger has recently been used in the water hold the trigger upright while unscrewing the end cap or the cable to expel any residual water from entering the connector cavity. The charger circuit can be powered via any mobile USB connection such as a laptop or a mobile phone. It can also be power with the provided charger adaptor. The charger comes with adaptors for US, EU, Australia and Asia.



While the trigger is charging the small **amber** chip LED will light up. When the charge is finished the **green** chip LED will light up. **Do not charge the trigger while powered on.**

Troubleshooting

Not Turning On

If upon impact the **purple** menu LED does not blink, it is likely that the unit's battery has been depleted and require a full charge.

Menu LED Blinking Red and Blue:

If the menu LED blinks **red** and **blue** upon start up or during operation this means that the battery voltage is low and that the unit requires to be fully charged.

Optical Trigger not Working:

If the optical trigger does not trigger the remote strobe, remove the fiber optic cable from the unit and inspect the small high power LED inside the optical bulkhead. Operate



the camera strobe several times and see if the LED blinks while the camera strobe fires.

If the LED does not flash bright white make sure the trigger is in the **blue** mode. The **red** mode disables the white LED to conserve power.

If the LED does flash bright, the fault could be in the optical cable or the strobe settings. Make sure you follow the strobe manufacturer's settings for operating the remote strobe via optical cable.

Inspect the optic cable for bends or damage. We recommend using only high quality multi-strand optical sync cables. Single core cables are prone to failure and will not function properly with the Anglerfish Trigger.

In some situations, salt and dirt accumulates on the surface of the remote strobe's optical bulkhead. Inspect the bulkhead for debris, salt or fouling. Cleaning the inside of both the remote strobe and the trigger optical bulkheads with rubbing alcohol and Q-Tips will ensure maximum light



transmission and optimal preperformance. Some strobes with weak light sensors may not fire while using the optical cable. In this situation please use the electrical cable.

Remote Strobe Triggering Randomly:

It is unlikely that the remote strobe fires randomly. However, if this happens it means that the Nikonos bulkhead or the sync cable connected to the strobe has been flooded. Turn off the strobe and assess the cable o-rings for damage or debris.

Specification

Parameters	Value
Operating Temperature	0 - 40°C
Battery Type, Capacity	Li-Po 3.7V, 300mAh
Charge Current	0.3C, 100mA max
Charger Rated Input Voltage	100-240Vac
Charger Rated Frequency	50-60Hz
Sleep Mode Operating Time	200 days (full charge)
On Mode Operating Time	~50 hrs (red mode), ~38 hrs (blue mode)
Weight, Dry (Submerged)	~125 grams (-65 grams)



Compliance

Anglerfish Trigger:



Anglerfish Trigger is constructed from electrical components and parts that are RoHS compliant.



Anglerfish is a lead-free product.



This electronic product should not be mixed with general household waste. The correct disposal of this product will help prevent any potential negative effect to the environment. For disposal please take this product to a designated electronic waste recycling or disposal area.

Charger:

The third-party USB charger provided with the Anglerfish Trigger is in compliance with the following regulations.





QA/QC Check List

- PCB Testing & Inspection
- Menu Function and Program Test
- Optical Trigger Circuit Test
- Electrical Trigger Circuit Test
- Hydrotest (980 kPa)

Serial No.

