

10Bar Snoot with Red Laser



User Manual

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1. Introduction

Machined from marine grade aluminium, our snoot with red laser pointer is the ideal tool for underwater macro photography. A simple push will attach the snoot onto the flash. Sensor built into the red laser unit will cut out the laser beam when the flash is fired. The front sections of the snoot can be removed individually to suit lighting needs.

2. Specifications

Tested Pressure	Laser Housings Individually Tested to 10 Bar (90 m / 300 ft.) Recommended Working Pressure : 60 m
Closure Design	O-ring
Body Material	Marine Grade Aluminium
Overall Size (Length x Diameter)	209 x 168 mm for Inon Z240 209 x 78.5 mm for Inon S2000 209 x 79 mm for Sea&Sea YS-110 209 x 92 mm for Ultra Max
Total Weight	Approx. 0.30kg for Inon Z240 Approx. 0.28kg for Inon S2000 Approx. 0.28kg for Sea&Sea YS-110 Approx. 0.30kg for Ultra Max
Buoyancy (with Flash)	Slightly Negative in Salt Water
Laser Pointer Power Source	3 x LR44 Button Cell

3. Control Functions

- (1) On/Off Switch
- (2) Battery Compartment Cover
- (3) Laser Adjustment Knob
- (4) Laser Adjustment Screw



Control Details

- (1) On/Off Switch

Push to turn laser pointer On or Off

- (2) Battery Compartment Cover

Insert screw driver or coin into slot to open the battery compartment

- (3) Laser Adjustment Knob

Turning the knob will fine tune the red laser mark position

- (4) Laser Adjustment Screw

For coarse adjustment before diving, replace with longer screws for very close subject if necessary. Set the tip of tube to the required distance. Look through inside of the tube and adjust the screws until the red laser mark falls in the center.

4. Use & Care

Special Note on Responsibility for Watertight Integrity

Each laser housing is individually inspected and hydrostatically tested in the factory. However, the responsibility for ensuring the integrity of the watertight seal lies entirely with the user.

Maintaining the O-ring

The O-ring is the main seal in keeping sea water out of the laser housing. It is an effective barrier only if the O-ring is properly maintained. The O-ring should be inspected every time the battery compartment cover is opened. The following information is provided for your guidance in using and maintaining the O-ring.

- There is one O-ring on the battery compartment cover which requires regular maintenance.
- Remove the O-rings periodically for inspection.
- It is not necessary to remove, clean and re-install the O-ring every time the battery compartment cover is opened, provided the O-ring is not contaminated.
- If the laser housing is to be opened between dives for changing batteries, make sure the outside of the housing is thoroughly towel dried before opening.
- After battery replacement, replace the cover right away.
- Before replacing the cover, check the O-ring and make sure that no contaminants such as dust, hair, salt, sand, etc., has fallen onto the O-ring.
- The O-ring should be inspected every time the battery compartment cover is opened and maintenance carried out only if necessary.

Inspection, Cleaning and Re-installation of the O-ring

Tools

- Soft cotton buds that are free of chemicals or contaminants such as loose fibers.
- Silicone grease specifically for use with underwater camera equipment.

Procedure

The following procedure should be carried out on a clean, firm, level surface (e.g., on a table) to prevent slipping especially when diving from a boat.

- The O-ring can be extracted using an O-ring extractor tool.
- Clean the O-ring recess (the groove where the O-ring sits) with a cotton bud.
- Inspect the surface of the O-ring for contaminants and damages such as cuts or tears.
- **If the O-ring is damaged or suspected of being damaged, discard it immediately.**
- If the O-ring is contaminated, clean it with a clean cloth.
- Re-inspect the O-ring after cleaning.
- Once the O-ring has been inspected and verified good for use, apply and distribute evenly a **SMALL** amount of silicone grease to the surface of the O-ring.
- Replace the O-ring into the groove.
- Run a finger over the O-ring to make sure it is seated properly.

Pre Dive Function Check

- Check battery compartment cover is closed properly.
- Check laser pointer On/Off function.
- Check snoot is attached properly to flash.

General Operations

- The laser housing and snoot are made of marine grade aluminium known for its outstanding corrosion resistance, strength, and toughness.
- Although marine grade aluminium has good resistance to weathering, long-term exposure to sunlight should be avoided.

Avoid submerging the snoot in hot water for a prolonged period of time or in a cleansing tank which is directly under a hot sun where the water may get heated.

Cleaning & Storage

- It is good practice to rinse off your snoot with fresh water after every dive.
- Avoid exposure to fine sand.
- After a series of 10 or more dives, e.g., after a dive holiday, the snoot should be immersed in warm water for 2-3 hours to dissolve any salt deposits that may have built up.
- No chemical cleaners should ever be used.

Important!!! For long term storage please remove the O-rings from the snoot.

Transportation

The snoot should be wrapped in foam or bubble wrap for transportation.

Accidents

The impact resistance of our aluminium housing is excellent. In the event that your snoot encountered an impact force (e.g., being dropped) and stopped working properly, please send it back to 10Bar immediately for servicing. Put a note with the snoot stating the nature of the accident to assist our technicians in assessing the damage.

5. Service

To ensure the continued performance of your snoot, it should be sent in to us for servicing annually, or after every 200 dives, whichever is earlier. A full service will include:

- Inspect all components for wear or damage and report if repair is necessary.
- Clean all sealing surfaces.
- Replace all O-rings.
- Hydrostatic pressure test to 10 bar.

Note: Replacement of damaged components may require additional cost.

6. Warranty

The warranty is valid for two years from the date of purchase. The warranty applies only to the laser pointer itself. 10Bar does not accept any liability either implicit or otherwise for any equipment used together with the snoot. In the event of the laser housing flooded within the warranty period, 10Bar will repair or replace the laser housing. Disassembly of the laser housing will invalidate the warranty. To register a warranty, please complete the form below and return a copy by fax, email or mail to:

10Bar Underwater Housings
Unit D, 5/F., Wing Hin Factory Building
31-33 Ng Fong St., San Po Kong
Kowloon
Hong Kong

Tel.: (852) 2573 3228
Fax.: (852) 2811 9180
E-mail: service@10bar.com
Website: <http://www.10bar.com>

(Copy to be retained by user)

Housing Type :	Date of Purchase :
Serial Number : (Labeled Inside Housing)	Dealer :
Owner's Name :	E-mail :
Owner's Address :	Tel : Fax :

Please keep this manual for future reference

(Note: due to continuous improvements on our products, the latest model of the housing may differ slightly from those described in this document).

(Copy to be returned to 10 Bar Underwater Housings)

Housing Type :	Date of Purchase :
Serial Number : (Labeled Inside Housing)	Dealer :
Owner's Name :	E-mail :
Owner's Address :	Tel : Fax :