

Fantasea Line  
**Nano Spotter**  
Operator's Manual



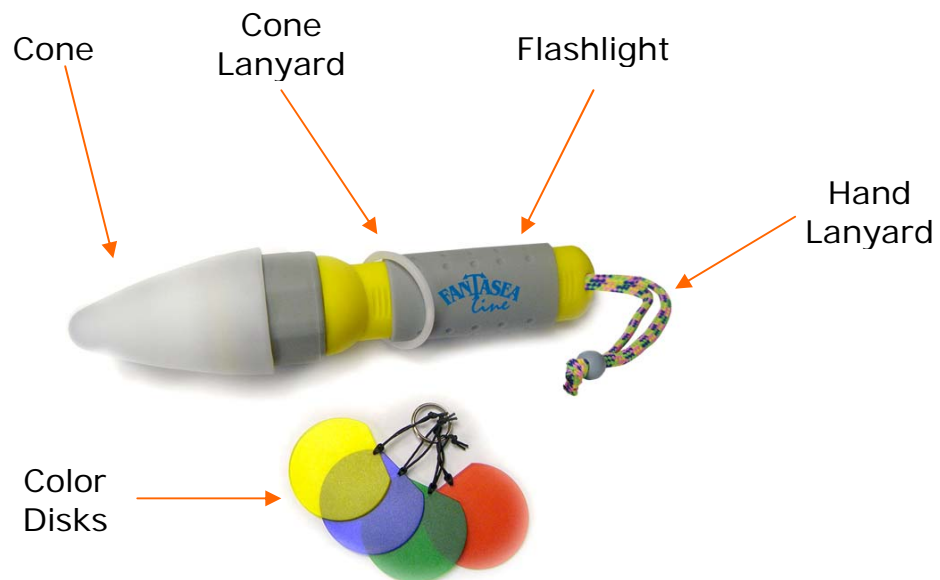
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## 1. Introduction

The Nano Spotter is a new LED light from Fantasea, similar to the old "Chemical Stick Lights", but reusable and much more environmentally friendly. It is a perfect light for signaling and messaging during night dives.

Included in the kit are the Nano Spotter light, hand lanyard, white plastic cone with a lanyard and 4 color disks.



## 2. Installing and Removing Batteries

A. Prior to installing batteries, the white cone should be removed. Simply detach the cone from the flashlight's head by gently pulling them away from each other. Make sure that when separating the cone from the flashlight, there is no tension exerted on the cone's lanyard, which is wrapped around the flashlight.

- B. To open the Nano Spotter, hold the hand grip firmly in one hand and turn the flashlight head counterclockwise until it separates. Pull the flashlight head off. Please make sure that the light is pointed in an upward position so contents do not fall out when opened. Take special care not to stare into the light beam which is very powerful and could damage your eyes.
- C. Gently remove the LED head (the white component with 5 LED bulbs) by pulling it out.
- D. Install or remove the 4 AAA Alkaline batteries carefully.  
**Please note that this light should not be used with rechargeable batteries.** Make sure that you follow the instructions diagram printed on the inside of the light. Note that there are two sets of two batteries, each set pointing in a different direction.
- E. Replace the LED head carefully, making sure that the two protrusions on the inside of the battery compartment correspond with the two niches on the LED head. This is the only way it will fit properly.
- F. Carefully place the flashlight head over the threads, and tighten evenly in a clockwise fashion. Do not use force and do not allow it to screw down unevenly. Take special care not to stare into the light beam which is very powerful and could damage your eyes.
- G. It is recommended to occasionally apply a slight amount of silicone grease to the black O-ring seal found on the flashlight after unscrewing the flashlight head counterclockwise.
- H. In order to attach the cone to the flashlight again, simply cover the flashlight's head with the open side of the cone, so it wraps around it. The cone is held by friction on the flashlight's head. There is no need to force the cone down

on the rubber light cover, but it should be attached firmly to assure that it is watertight and does not allow water to seep into the cone. The cone is what gives the necessary buoyancy to the Nano Spotter.

### 3. Turning the Nano Spotter On/Off

- A. It is recommended that you detach the cone from the flashlight's head prior to turning the Nano Spotter on/off in order to prevent tension from being exerted on the cone's lanyard.
- B. In order to switch the light on, carefully turn the flashlight head counterclockwise just enough for the light to turn on. **Once the light is turned on, do not keep turning the flashlight head counterclockwise, or else the watertight seal of the light will be damaged.**
- C. In order to switch the light back off, turn the flashlight head clockwise fashion all through the end. Please note that there is never a need to use force when closing or opening the light or turning it on or off.
- D. Please note: If you are turning the flashlight head more than half a turn and nothing happens, you are probably turning it the wrong way.

### 4. Assembling the Cone and Multi-Colored Plastic Disks

- A. Detach the cone from the flashlight's head by gently pulling them away from each other. Make sure that when separating the cone from the flashlight, there is no tension exerted on the cone's lanyard, which is wrapped around the flashlight.

- B. Choose one of the colorful plastic disks included with the kit.
- C. Push the chosen plastic disk into the white plastic cone, until it is positioned inside the dedicated track. Note that the shiny side of the disk should be positioned towards the bottom open part of the cone.
- D. Cover the flashlight head with the open side of the cone, so it wraps around it. The cone is held by friction on the flashlights head.
- E. When turned on, the light emits a diffused colorful light.
- F. In order to replace the colored plastic disk with a different colored disk, detach the cone from the flashlight head, and pull the disk out from the open side of the cone, by gently pulling the string attached to the disk. Follow steps A-D in order to insert the new colored disk into the cone.

## **5. Using the Nano Spotter as a Signaling Device**

- A. Once the Nano Spotter is turned on, it can be attached to a diver in order to use it as a signaling device.
- B. Tie the flashlight's hand lanyard to the diver's equipment. The best way to do this is to tie the hand lanyard around the tank valve, where the regulator's first stage is connected to the tank.
- C. Leave as little slack as possible to the hand lanyard, so the light is tied to the tank valve as closely as possible.
- D. Since the cone consists of positive buoyancy, the Nano Spotter will be pointing up during the dive.

- E. After the dive, detach the Nano Spotter from the tank valve and soak and rinse exterior components in fresh water.

## **6. Using the Nano Spotter as a Back-up Light**

- A. The Nano Spotter can also be used as a back-up light during night dives. Its compact size means that it can easily be stored inside a BCD's pocket and pulled out when necessary.
- B. Prior to the dive detach the cone from the flashlight's head by gently pulling them away from each other. Make sure that when separating the cone from the flashlight, there is no tension exerted on the cone's lanyard.
- C. To get maximum light you should pull off the cone from the end of the rubber LED cover and leave it free only attached to the light by its lanyard, or you can detach the cone's lanyard from the flashlight by gently pulling out the flashlight out of the plastic lanyard's ring.
- D. Make sure batteries are properly installed (see section 1: Installing and Removing Batteries).
- E. After the dive, carefully soak and rinse exterior components in fresh water.

## 7. Specifications

- Batteries: 4 x AAA batteries
- Burn time: Up to 60 hours per set of batteries
- Bulbs: 5 super bright LED bulbs
- Luminance: 500,000 mcd
- Color: Yellow
- Depth ratio: 30 meters/100 feet

- You must carefully soak and rinse exterior components in fresh water after each use.
- Store in a protected, dry and shaded area.
- Remove batteries when storing for an extended period of time.

For further information please contact us at [info@fantasea.com](mailto:info@fantasea.com) or visit our website at [www.fantasea.com](http://www.fantasea.com)