

## Introduction

The PhytoFlash Active Fluorometer Shade Cap (P/N 2500-510) was designed for use in both the Self-Contained and Integrated Modes. The Shade Cap allows the free passage of water past the sensor optics while shielding the optics from unwanted light. The Shade Cap is also useful whenever the active fluorometer is being deployed in shallow waters, is in contact with the bottom or other objects, or is in a fast moving current.

The Shade Cap will help prevent seaweed, leaves, and other debris from obstructing the optics. It is easily mounted on the PhytoFlash Active fluorometer and provides good long term mechanical protection.

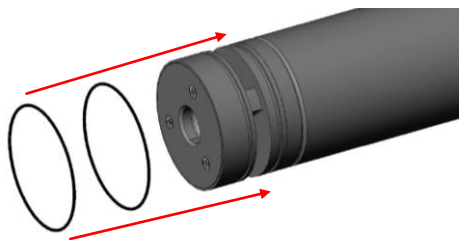
## Benefits

The three main benefits of using the Shade Cap are to:

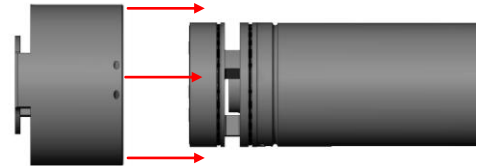
- Reduce sunlight effects on sensor readings in shallow water
- Maintain a clear optical path in the presence of leaves and other debris
- Protect the sensor's optical surface

## Installing the Shade Cap

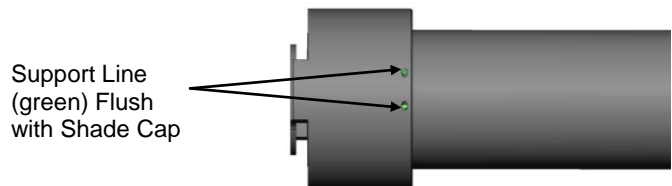
- 1) Lubricate provided O-rings using Parker O-ring Lubricant or equivalent.
- 2) Install the two rubber O-Rings into the grooves on the PhytoFlash's optical head.



- 3) Slide the Shade Cap over the PhytoFlash's optical head. The Shade Cap will come to a stop when it is fully mated with the unit.



- 4) Feed the provided Green Support Line through the support line holes until the support line ends are flush with the Shade Cap.



- 5) Shade cap installation is now complete.
- 6) To remove the Shade Cap, simply push out the installed green support line using the extra support line provided and pull the Shade Cap off of the PhytoFlash's optical head.

## Specifications

Material	Black Delrin
Diameter	10 cm (3.94 in.)
Weight	253 g (0.558 lbs.)