

## Introduction

The following instructions provide an easy way for users to apply Turner Designs' Antifouling Copper Tape P/N 2600-506 to the Cyclops Integrator's Optical Head. The copper tape significantly reduces biofouling, allowing for increased accuracy and precision when making measurements during long term deployments.

## Preparation

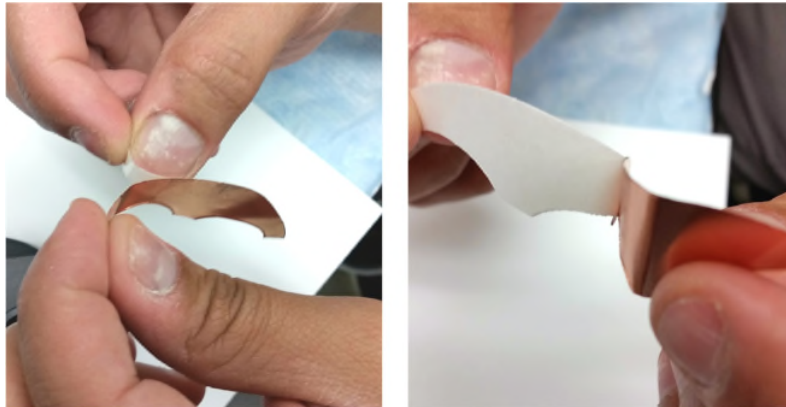
Before installing copper tape to your Cyclops Integrator Submersible Fluorometer's optical head, prepare the area where the copper tape will be installed by making sure to:

- Remove all existing copper tape (if any) by peeling it away from the optical head
- Clean the area using a soft cloth and warm soapy water. **CAUTION: Do not get water on the electronics of the Cyclops Integrator's Optical Head.**
- Dry the area completely

**Note: It is important to make sure the area is completely clean and dry before installing copper tape.**

## Installation

- 1) Remove the adhesive backing from one of the copper tape pieces.



- 2) With the adhesive side down, carefully align the copper tape piece on the outside of the sensor heads rings. Make sure the copper tape doesn't contact any of the sensor heads



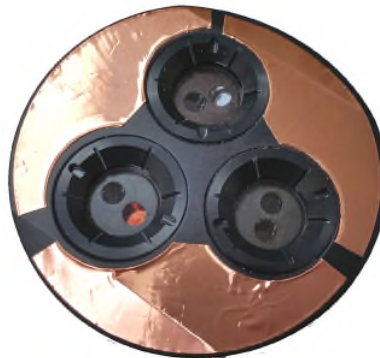
- 3) Press down on the copper tape allowing it to stick to the Cyclops Integrator's Optical Head and check the positioning of the copper tape piece.  
**Note: If the tape is contacting the sensors or is outside of the diameter of the optical head, remove the copper tape piece and re-apply.**



- 4) If the copper tape is not contacting any of the sensor heads and is within the inner diameter of the Cyclops Integrator's Optical Head, use your finger to apply pressure to all parts of the copper tape to smooth any bumps, rough parts, or detached edges



- 5) Repeat steps 1-4 to apply copper tape pieces to the Cyclops Integrator's Optical Head as pictured below



### Recommendation for Copper Tape Replacement

The degradation rate of copper tape is dependent on environmental parameters. Some environments will cause copper tape to degrade quicker than others. Turner Designs recommends these copper tape pieces to be replaced after 90 days of use. Depending on your environment, the copper tape pieces may need to be replaced more often.