

# FLAME-DA-CUV-VIS-NIR

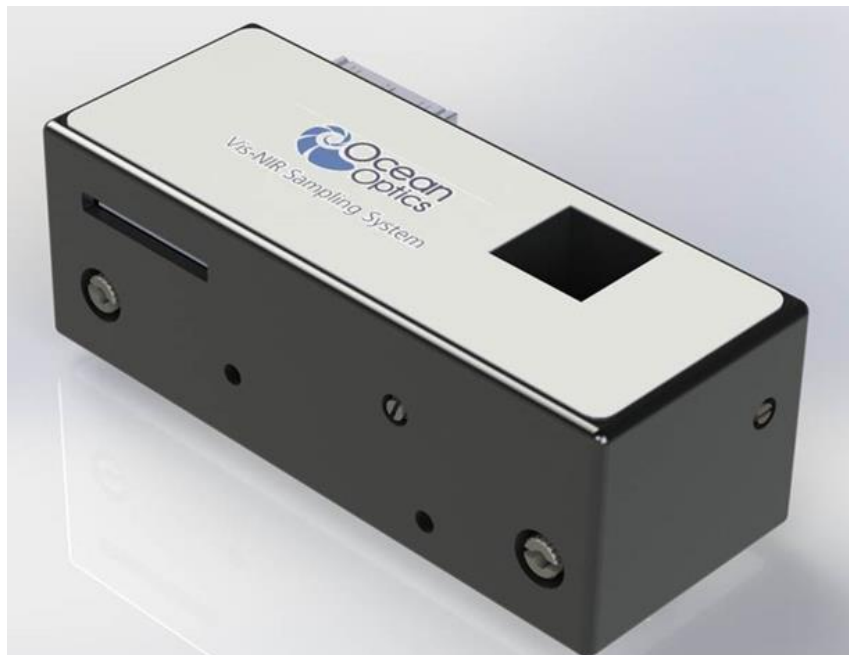
## Integrated Sampling System

### Installation and Operation Instructions

## Description

The FLAME-DA-CUV-VIS-NIR is a snap-on, direct-attach 1 cm, illuminated cuvette holder with tungsten bulb and violet LEDs (300 – 900 nm) created specifically for the Flame spectrometer models. This cost-effective accessory is well suited for color and simple environmental measurements such as PAR, water turbidity and chlorophyll absorbance.

Bulb replacement is available (FLAME-DA-CUV-VIS-NIR-B), but you must return your accessory to Ocean Optics to do so. Do not open the housing. Contact Ocean Optics to replace the bulb.



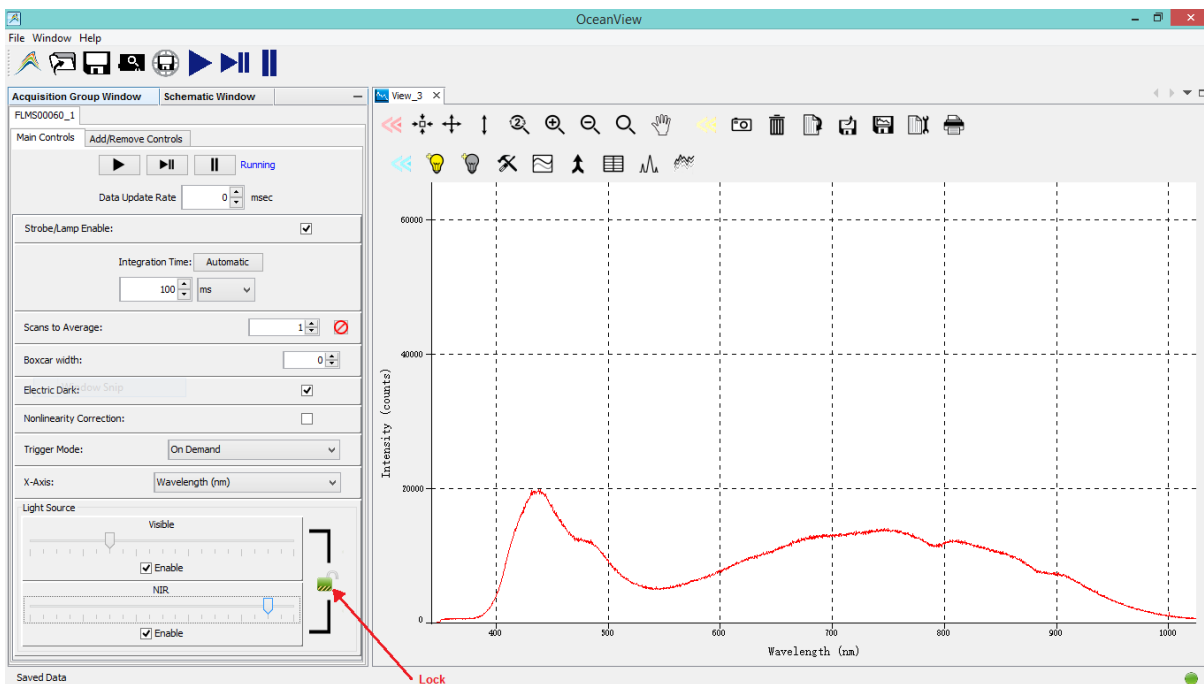
# Installing the FLAME-DA-CUV-VIS-NIR

The FLAME-DA-CUV-VIS-NIR attaches directly to the accessory connector on the Flame spectrometer. Place a cuvette with your sample into the cuvette holder slot.

## Using the Sampling System

### ► Procedure

1. Start the operating software.
2. Enable the light source. To do this,
  - For OceanView, check the **Strobe/Lamp Enable** check box on the Acquisition Group window.
  - For SpectraSuite software, check the **Strobe/Lamp Enable** check box on the Acquisition toolbar.
3. In OceanView, use the Light Source slide controls to adjust the voltage to the LEDs (0 to 100%) for the Visible and NIR ranges. The Lock control binds the two sliders so that they adjust together. The settings persist when you log out and then back in to OceanView.



# Specifications

Dimensions (L x W x H)	88.9 x 31.5 x 35.6 mm
Weight	180 g
Power Consumption	1.8 A @ 5 VDC
Wavelength Range (source)	390-900 nm
Path Length	1 cm
Cuvette Shape	Rectangle
Light Source	Tungsten lamp and violet LEDs
Bulb Life (hours)	2,000 (tungsten); 45,000 LEDs

## Product Upgrades, Repairs and Servicing

Occasionally, you may find that you need Ocean Optics to make a change or an upgrade to your system. To facilitate these changes, you must first contact Customer Support and obtain a Return Merchandise Authorization (RMA) number. Please contact Ocean Optics for specific instructions when returning a product.

### Repairs

Sometimes accidents happen! If you need to return your Ocean Optics product for repair, here is what to do:

► **Procedure**

1. Contact us to speak to an Ocean Optics representative about the problem. If it is determined that the product must be returned, the representative will issue an RMA number.
2. Package your product, ideally in the original packaging, and return it to Ocean Optics, along with the RMA number that you received.

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**Note**

For RMA returns under warranty we will organize and pay for shipping both ways. For accidental damage, you only pay to have the product delivered to your closest Ocean Optics or OOI Distributor Office.

Upon careful examination, we'll advise you with an estimate. When your product is ready, it will be returned to you.

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