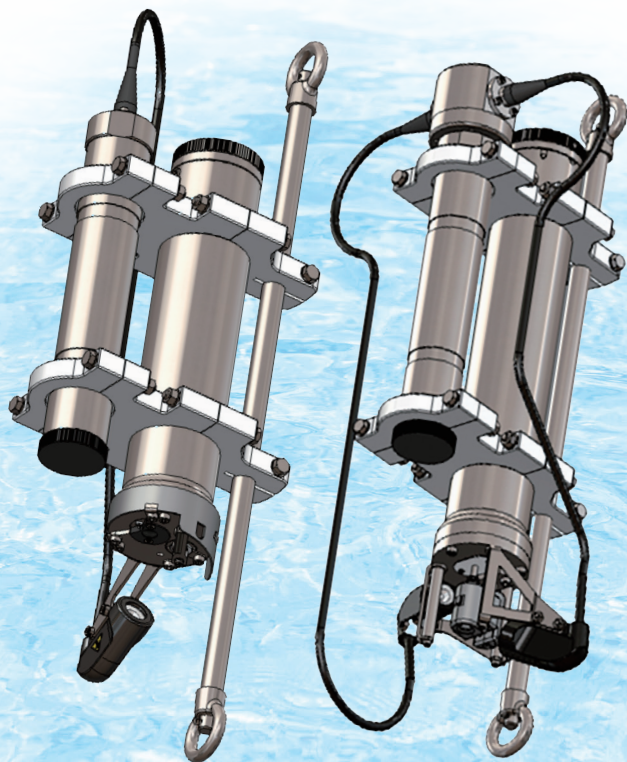


# UV Anti-Biofouling UV-C LED

AUL-BAT / CA



Only wiper

Wiper+UV-C



After 1 month



After 3 months



After 1 month



After 3 months

## Overview

The UV-C LED is ultraviolet light (UV-C) irradiation equipment that can be attached to INFINITY-EPISA and INFINITY series (cable type). One of the major drawbacks of sensors in natural water is occurrence of biofouling – a phenomenon consisting of aggregation and adherence of organisms onto the sensing parts. This can negatively affect measurement accuracy.

UV-C is a non-toxic biofouling control for oceanographic sensors which is very effective to eliminate biofouling. Application of UV-C together with a mechanical wiper will not only keep sensors free of biofouling for a longer time, but it will also protect sensors from being covered by inorganics during long term observations.

### Important Note

- 1) The UV-C LEDs can be only used with sensors that are treated against UV light degradation. If you wish to add UV-C LEDs to your existing instruments, please contact us in advance.
- 2) Do not look at the UV-C lighting part directly. Also, do not light the irradiated UV-C to your skin.

## UV-C light Specifications

Peak wavelength	265 nm
Current consumption	Approx. 2 W (when irradiating)
Dimension	φ28 mm × 66 mm
Risk group	3 (IEC62471)
Depth rating	Equivalent to 200 m depth
Irradiation duty <sup>*1</sup>	Approx. 2 % (standard setting)

<sup>\*1</sup> Pulsed light is irradiated continuously at regular intervals. The irradiation interval is set at 2 % as default. However, the setting can be changed at our factory if requested.

## Battery unit Specifications

Dimension	φ45 mm × 250 mm
Weight	Approx. 0.58 kg (excluding batteries)
Battery	3 D-cell lithium batteries (SAFT: LS33600STD)
Battery life <sup>*2</sup>	Approx. 6 months
Depth rating	Equivalent to 200 m depth

<sup>\*2</sup> Irradiation duty 2 % (at 25 °C at 1 atm in air)

## Compatible Models and Attachment Examples

**Compatible models**

- ACLW-WFU/WFUX
- ACLW-WFU/WFUX-L
- AROW-WFU/WFUX
- AROW-WFU/WFUX-L

**UV-C light**  
+  
**Battery unit**

**Compatible models**

- ACTW-WF/WFX
- ACTW-WF/WFX-L

**2×UV-C lights**  
+  
**Battery unit**  
+  
**Junction box**

**Compatible models**

- ACTW-WF/WFX
- ACTW-WF/WFX-L

**2×UV-C lights**  
+  
**2×Battery units**

**Compatible models**

- ACLW2-CARU/CADU
- AROW2-CARU/CADU

**UV-C light**  
+  
**Junction box**

**Compatible models**

- ACLW2-CARU/CADU
- AROW2-CARU/CADU

**UV-C light**  
+  
**20 m pigtailed cable**

**Compatible models**

- ACTW-CAR/CAD

**2×UV-C lights**  
+  
**Junction box**

**Compatible models**

- ACTW-CAR/CAD

**2×UV-C lights**  
+  
**2×20 m pigtailed cables**

Note: The actual connector type and cable length may differ from the illustrations.