UV•Xchange™

Easy, Effective Biofouling Control

Biofouling is a significant hindrance to in-situ ocean monitoring and other long term deployments of underwater devices. AML offers a range of products to control biofouling on almost any subsea device by bathing the desired surfaces in UV light, inhibiting marine growth. UV biofouling control has significant advantages over other antifouling technologies:

- No toxic chemicals, which simplifies deployment and maintenance while eliminating environmental damage
- No moving parts, hence greater reliability compared to wipers and plungers
- Protects complex and delicate surfaces, for which wipers are unsuitable

UV•Xchange installed on Metrec•X endcap. Configured to protect conductivity, turbidity, and pressure sensors.

UV•Xchange

Install UV•Xchange on a Metrec•X or Smart•X for a high performance in-situ CTD. By eliminating biofouling-induced drift, UV•Xchange allows sensors to perform to their full potential for the duration of long-term, in-situ deployments. Like all other members of the Xchange™ suite of products, UV•Xchange is field-swappable and easily configured to fit the needs of any operation. Installed directly on the end cap of an X•Series instrument, the module can be set to various positions, enabling optimal coverage of all sensors requiring protection. UV•Xchange can also be installed on Micro•X as a standalone option for other instrumentation. When used in applications with limited power supply, UV•Xchange can be wired independently from the sensor load to optimize the power budget.

UV•Xchange with 3 horizontal LEDs and 1 vertical LED

UV•Xchange with 1 vertical LED

Metrec•X *Smart•X* *Micro•X*

Recommended on these instruments

Product Code	Description	Typical Use	Dimensions Mounted (mm)	Current Draw* at 12-26V (mA)	Depth Rating	Materials	Effective Range**
XCH-UV-V	Short Tube 1 Vertical LED	Stand Alone or CT Installed on: Smart•X Micro•X	73 x 25.8	100	500m	Quartz Titanium Acetal	Up to 10 cm
XCH-UV-BBBV	Long Tube 3 Blanks 1 Vertical LED	CTD Installed on: Metrec•X	117 x 25.8				
XCH-UV-LLLV	Long Tube 3 Horizontal LEDs 1 Vertical LED	Multi-parameter Installed on: Metrec•X Micro•X		190			

*Incremental current draw when installed on AML instrument.
** Depends on environmental conditions.

conductivity / sound velocity / pressure / temperature / turbidity / biofouling control

Cabled UV

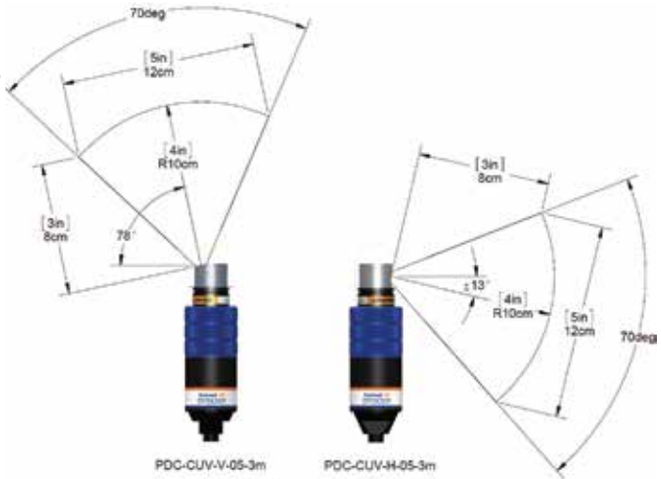
Easy, Effective Biofouling Control

Cabled UV

Cabled UV offers ultimate customization for each unique application. Providing the technology of UV•Xchange in a format that is compatible with almost any device, Cabled UV is biofouling control integrated into the end of a cable, ready to prevent growth on underwater equipment. It is ideal for protecting a broad spectrum of surfaces and devices, such as:

- third party sensors
- ADCPs
- camera lenses
- lights
- hydrophones
- sonar heads

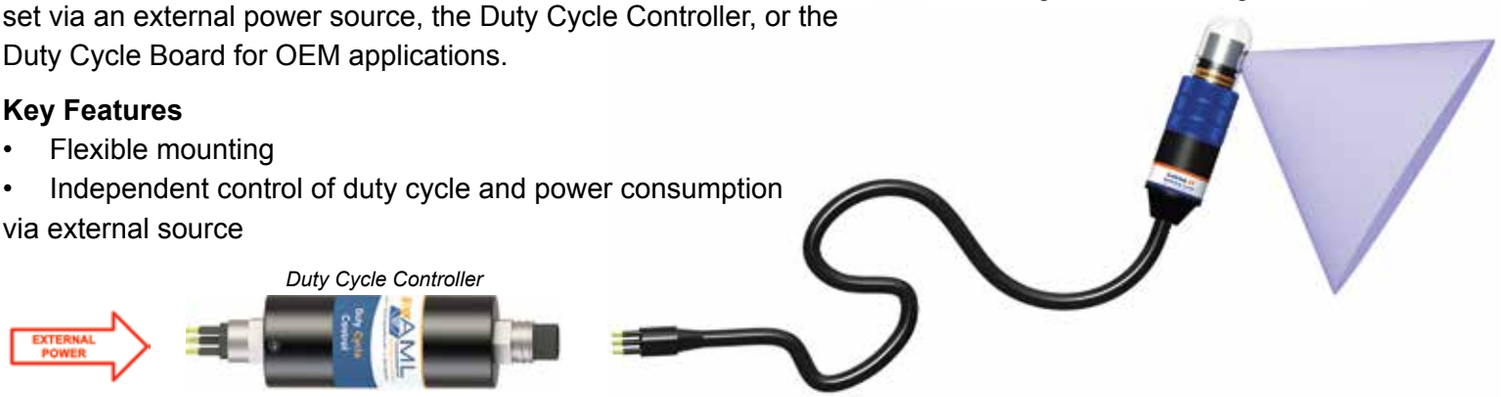
Cabled UV features increased flexibility to accommodate the individual requirements of each deployment. The duty cycle can be set via an external power source, the Duty Cycle Controller, or the Duty Cycle Board for OEM applications.



Beam angles and effective range in seawater

Key Features

- Flexible mounting
- Independent control of duty cycle and power consumption via external source



Product Code	Description	Typical Use	Dimensions (mm), excl. cable	Voltage Range	Current Draw at 12V (mA)	Energy Consumption (Ah/day)*	Electrical Connectors	Depth Rating	Effective Range**
PDC-CUV-V-05-3M	1 Vertical, 3mW HP LED, 3m Cable	Sensors Cameras Transducers	115 x 25.8	12-26V	120	Up to 1.5	MCIL6M	500m	Up to 10 cm
PDC-CUV-H-05-3M	1 Horizontal, 3mW HP LED, 3m Cable								
PDC-CUV-CUSTOM-05-3m	2-4 LEDs, custom to order, 3m cable	Multiple surfaces	159.7 x 25.8		32, plus 88 per LED	Consult factory			
PDC-DCC-05	Duty Cycle Controller (Optional)	Time-based power cycling	164.6 x 40.6	8-26V	0.08	0.01	I/O: MCBH6M/ MCBH6F		N/A
SUB-G0749	Duty Cycle Control Board Assembly	OEM time-based power cycling	57.9 x 29.2				N/A		

* Amp-hours per 24 hour period based on 50% duty cycle at 12V

** Depends on environmental conditions.

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