

UV•Xchange is a subsea module that prevents biofouling during long-term, in-situ deployments. UV•Xchange inhibits marine growth by bathing critical surfaces in ultraviolet (UV) light. Comparative studies show UV•Xchange to be as effective as leading chemical protection methodologies, such as bis(tributyltin)oxide (TBT), at eliminating drift due to biofouling in CTDs and multi-parameter instruments.

UV•Xchange offers significant advantages over existing biofouling control technologies:

- No toxic chemicals. This simplifies deployment and maintenance while eliminating environmental damage.
- No moving parts and hence greater reliability compared to wipers and plungers.
- Protects complex and delicate surfaces, for which wipers are unsuitable.
- Adjustable LED sub-modules ensure effective coverage of all critical surfaces, regardless of geometry.

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 any sensors requiring protection. By eliminating biofouling induced drift, UV•Xchange allows sensors to perform to their full potential on in-situ instruments. Install UV•Xchange on an AML instrument for a high performance in-situ CTD.

UV•Xchange can also protect third party devices: cameras, lights, structures, sensors, etc. Simply install the UV•Xchange module onto a Micro•X instrument, point, and apply power to protect.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™






Turbidity•Xchange™

Key Benefits:

- Environmentally friendly: Does not use chemicals or reactive coatings.
- Reliable: No moving parts, thus no risk of mechanical failure.
- Effectiveness: Range of up to 10 cm.
- Low maintenance.
- Versatile: Attach to a Micro•X to protect any underwater device, including cameras, lights, non-AML sensors and instruments, and much more.
- Non-contact: Will not damage sensitive lenses or other fragile objects requiring protection.



	Product Code	Description	Typical Use	Dimensions Mounted (mm)	Depth Rating	Materials	Current Draw* (mA) at 12-26V	Effective Range**
	XCH-UV-V	Short Tube 1 Vertical LED	Stand Alone or CT Installed on: Micro•X Smart•X	73 x 26.8	500m	Quartz Titanium Acetal	100mA	Up to 10 cm
	XCH-UV-BBBV	Long Tube 3 Blanks 1 Vertical LED	CTD Installed on: Metrec•X	117 x 26.8	500m	Quartz Titanium Acetal	100mA	Up to 10 cm
	XCH-UV-LLL	Long Tube 3 Horizontal LEDs 1 Vertical LED	Multi-parameter Installed on: Micro•X Metrec•X	117 x 26.8	500m	Quartz Titanium Acetal	190mA	Up to 10 cm

*Incremental current draw when installed on AML instrument.

** Depends on environmental conditions.



Edificio Antalia
Albasanz, 16
28037 MADRID
Tel. 91 567 97 00
Fax: 91 570 26 61

www.alavaingenieros.com

Torre Mapfre-Vila Olimpica
Marina, 16 - Planta 11-C2
08005 BARCELONA
Tel. 93 459 42 50
Fax: 93 459 42 62

alava@alava-ing.es