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**

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.

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

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

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**conductivity / sound velocity / pressure / temperature / turbidity / 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.

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

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### Product Code | Description | Typical Use | Dimensions (mm), excluding 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 High Power LED, 3m Cable | Sensors Cameras Transducers | 115 x 25.8 | 12-26V | 120 | Up to 1.5 | MCIL6M | Up to 10 cm | 500m
PDC-CUV-H-05-3M | 1 Horizontal, 3mW High Power 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 | Input: MCBH6M Output: MCBH6F | N/A | N/A
SUB-G0749 | Duty Cycle Control Board Assembly | Timing control of power for OEM | 57.9 x 29.2 | | | | | | |

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