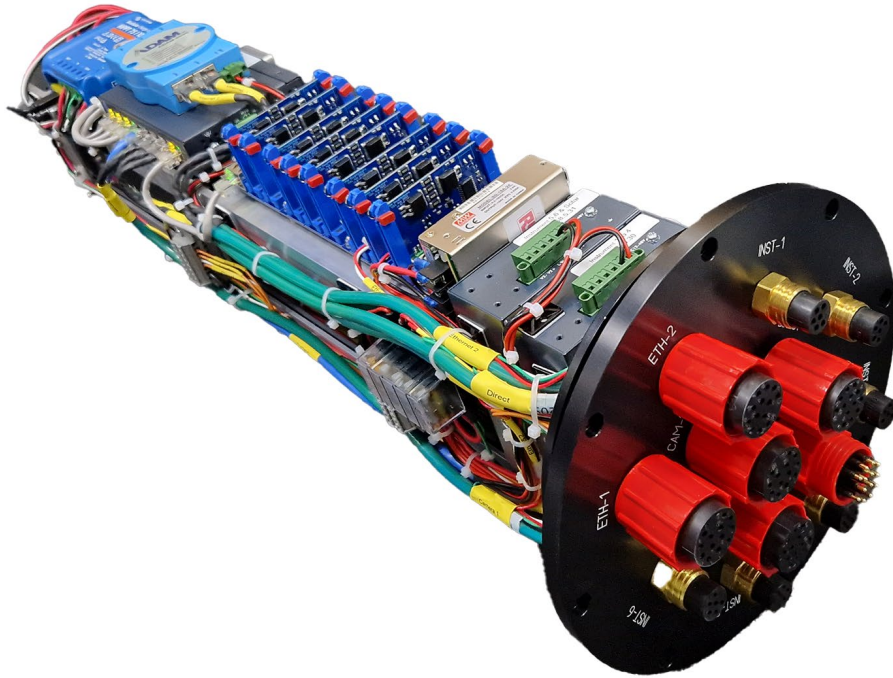


SEABED MULTIPLEXER



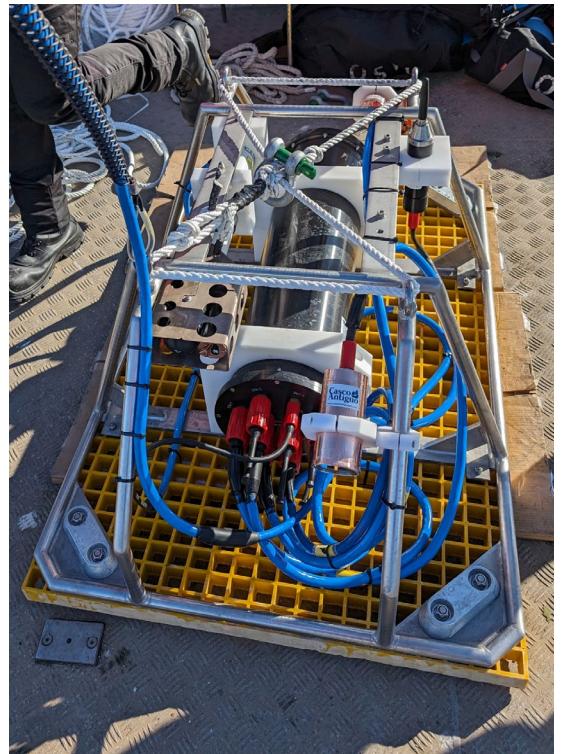
Managing multiple sensor inputs easily from the Seabed

The OSIL Multiplexer is an underwater Ethernet connected sensor hub, that can process and manage inputs from multiple sensors or other equipment using analogue or digital communications protocols, including Ethernet and serial comms (RS 232, 422 & 485), and convert these to a single output line. The multiplexer is equipped with its own 48Ah battery backup and integral charge controller for re-charging via a surface buoy platform's solar array, and has provision for user expansion and/or daisy chaining of multiple hubs.

The Multiplexer makes it possible for multiple complex inputs, such as HD video feeds to be combined into one single, easy to manage data stream

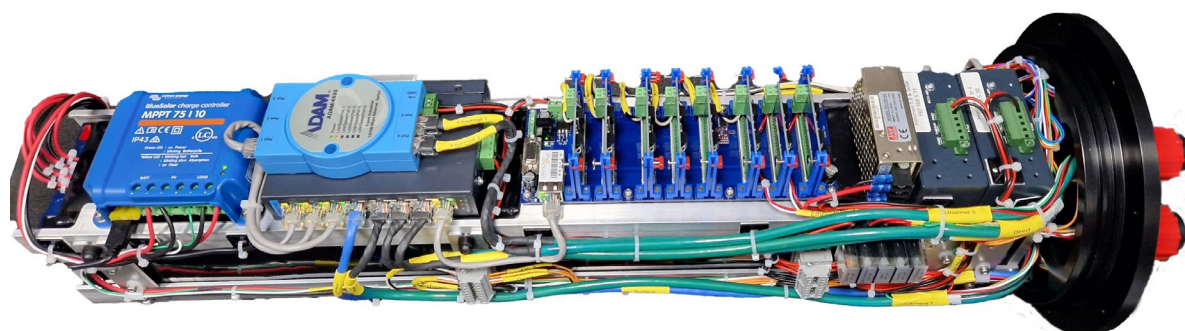
The standard pressure housing is designed to withstand 50dBar. Systems for use in deeper waters are available.

Each Multiplexer sensor hub comes complete with a seabed frame with PVC clamps which are made to suit any instrumentation that is to be mounted on the frame.



Specifications

| Mechanical | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Dimensions | OD 235 mm, total length including connectors 820 mm |
| Depth rating | 50m standard, increased depth ratings available on request |
| Material | Hard anodized marine grade aluminium |
| Weight in air | 22kg |
| Weight in water | 8.6kg |
| Multiplexer | |
| Serial | 6 x configurable (RS232, RS485 or RS422) - switched power |
| Ethernet | 4 x 10/100/1000BaseT comprising: 2 x Ethernet - switched power (12v) 2 x Camera - continual power (24v) |
| HD Video | 3 x HD-SDI (SMPTE-292M) per ethernet camera |
| Light Interfaces | LED Lights (RS485 controllable via instrument port) |
| System Expansion | Expansion port provided (48v DC pass through with ethernet) |
| Electrical | |
| Supply Voltage | Typ 48v DC - 20v to 75v DC |
| Output Voltage | 12v DC - Cameras (24v DC) |
| Backup Battery | 48Ah LiFePO4 |
| Control and monitoring | |
| Control | Software-programmable "Smart Fuses", Software-programmable current limit, Power switching |
| Monitoring | Battery voltage & charge current, Instrument power consumption (voltage & current), Instrument power switching |



FOR FURTHER INFORMATION PLEASE CONTACT:

Ocean Scientific International Ltd
 Culkin House, C7/8 Endeavour Business Park,
 Penner Road, Havant, Hampshire PO9 1QN, UK
 T: +44 (0) 2392 488240 E: osil@osil.com W: www.osil.com