

# Single Diver PSU

*Compact, Robust and Reliable Power and Data Communications*

## Reliable Data Link between Toplevel and Diver

Compact, robust and reliable, the Single Diver PSU facilitates all power and data communications between the diver-worn DPPmax and the topside supervisor's laptop. It offers AC and DC power protection, ensuring safe power handling as well as a current meter to allow the supervisor to monitor power consumption. A reliable data link for video, digital audio and 3D Sonar data is provided, with two standard Ethernet connectors allowing for simultaneous connectivity with the supervisor's laptop and ancillary sensors. The whole package is built into a small ruggedised flight case, which is lightweight and easy to handle, and can be made watertight when not in use by simply closing the lid. A Multi-Diver PSU Version available of the PSU is available for scenarios that require up to 3 divers.

The Single Diver PSU is a part of the wider, highly configurable **DAVDflex** solution, and is designed to be integrated with industry-leading solutions without sacrificing performance, reliability or ease of use. The **DAVDflex** integrates topside control, a Head-Up Display (HUD), and digital communications for divers, facilitating seamless real-time information exchange between divers and supervisors via augmented reality displays in the diver's helmet. Divers access critical technical data and support from surface teams to optimize mission outcomes and enhance underwater safety.



## Some of the innovative *Single Diver PSU* features available are:



### Reliable Power and Data Communications

The system provides reliable power and data communications, ensuring stable performance during operation.



### AC and DC Power Protection

Single Diver PSU supports both AC and DC power protection, safeguarding equipment against power fluctuations and interruptions.



### Contained in a Small Watertight Ruggedized Case

The Single Diver PSU is housed within a small, watertight, ruggedized case, making the system well-suited for use in harsh or demanding environments while remaining portable and durable.



### Simultaneous Connectivity with Laptop and Ancillary Sensors

Single Diver PSU enables simultaneous connectivity with a laptop and ancillary sensors, allowing for seamless integration, real-time data exchange, and efficient operation across multiple connected devices.

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption      | 100 - 240 V AC Input                                                                                                                           |
| Data Input/Output      | Ethernet/Power via SubConn MCIL6F to Lightweight Umbilical Cable (CA0000832)<br>2x RJ45 Ethernet (Laptop & 3D Sonar)<br>1x IEC Male (AC Input) |
| Dimensions (h x w x d) | 270 mm x 246 mm x 174 mm approx.<br>(10.62" x 9.68" x 6.85" approx.)                                                                           |
| Weight                 | 3.5 kg<br>(7.71 lbs approx.)                                                                                                                   |

