

3D PSU 5G

Unify Power, Communication and Synchronization

Power, Control and Data Integration Units Designed for Sonar, Rotator and GNSS Systems

The 3D PSU 5G serves as both a ruggedized power supply and an integrated communications hub for the Echoscope PIPE® real-time 3D sonar and Coda Octopus Rotator systems. By combining power distribution, network communications, and timing synchronization within a single unit, it simplifies system integration and reduces the complexity of survey and inspection mobilizations. This streamlined architecture minimizes cabling requirements and enables rapid deployment across a wide range of offshore and construction monitoring applications.

A key feature of the 3D PSU 5G is its advanced time synchronization capability. The unit allows connected sonar or rotator systems to synchronize to an external timing source using a standard 1PPS (Pulse Per Second) signal and NMEA ZDA connection. This delivers highly accurate timing across all collected data, providing synchronization accuracy of up to 1 millisecond throughout the entire survey duration. Precise time alignment is particularly important when integrating Echoscope® data with additional sensors such as GNSS units, external cameras, and pan & tilt units, ensuring everything remains accurately correlated.

The 3D PSU 5G also incorporates a built-in web-based user interface, providing operators with convenient access to system configuration and monitoring tools from any device connected to the network. Through this interface, users can configure synchronization settings, discover and manage connected devices, monitor system status, and remotely control power to the connected sonar or rotator. These capabilities reduce setup time, simplify troubleshooting, and improve overall operational efficiency both during mobilization and throughout project execution.



Some of the innovative 3D PSU 5G features available are:



Quick and Easy

Setup with full support in all Coda Octopus Software



Web Based App

Built-in Diagnostics, Monitoring and Configuration



4G USE® Support

Full Support for the 4G USE® Software



Synchronization

Synchronizes Echoscope PIPE® or Rotator to external time source with 1ms accuracy

Power Input	110 - 240 VAC Input
Power Output	29.5 V DC Max 300 W
Data Input/Output	RS-232 Serial Port x2 10 Mbps half-duplex Ethernet BNC 1PPS
Dimensions (L x W x H)	365 mm x 175 mm x 90 mm (14.8" x 6.9" x 3.6")
Weight in Air	4.3kg (9.5lbs)