Coda Octopus
Sound Underwater Intelligence

/3DPS 5G

Benefits

Support for all Echoscope® series sonars and F180®/F280® motion sensors*

Gigabit data support for all compatible systems

Ruggedized PC platform for harsh environments

Approved solution with proven performance

Powerful 3D graphics processing for Echoscope® real-time 3D sonars

Direct connection and dual-output power supply for sonar and rotator

Integrated time lock function for IPT/ISAR rotators and Echoscope® real-time 3D sonars

Optional external VDSL module

*External power supply needed for F280® and Echoscope® AIR LiDAR

Coda Octopus 3D Productivity Station 5G

The 3D Productivity Station 5G (3DPS 5G) is a ruggedized, industrial PC platform designed for use with Coda Octopus's 3D real-time sonar, rotator, and motion sensor.

The 3U form-factor, 19" rack-mountable 3DPS 5G features an integrated power supply and time lock function for 3D real-time sonar and rotator units. The 3DPS 5G is equipped with an auxiliary 12V power for external accessories (e.g., AtlasLink™), an optional VDSL module, and various serial ports for interfacing with ancillary survey sensors.

Configurable to meet user requirements through the 4G USE®, CodaOctopus® USE, or CodaOctopus® USE PIPE Core software, the 3DPS 5G utilizes high-end processors and graphics hardware to deliver excellent performance in 3D graphics rendering, data acquisition and processing.

With the feature upgrade, in conjunction with the latest 4G USE®, the 3DPS 5G offers a seamless and scalable processing workstation for tight integration of Echoscope® real-time 3D sonars and the UIS primary sensors. It now fully supports direct connection with our IPT/ISAR rotators for flexible and dynamic surveying and inspection, coupled with the industry-proven F280® series for high-accuracy position and attitude compensation.

Finally, users can add the Echoscope® AIR LiDAR for simultaneous above and below waterline imaging, ideal for critical recovery and inspection tasks. Along with the Echoscope® sonar range, the 3DPS 5G completes the all-in-one sonar deployment package, delivering an approved solution with proven performance and reliability.

Features

- Seamless and scalable processing workstation
- Robust PC platform built for demanding conditions
- Designed for integrated use with the Coda Octopus's 3D real-time sonar, rotator and motion sensor
- Plug-and-play solution for sonar and rotator deployment
- Built-in time lock function for Echoscope® sonar and rotator
- Integrated 12V AUX power provides easy support for external accessories such as AtlasLink™.
- Full range of ports for interfacing with ancillary sensors

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Technical Specifications

Processor	Intel® Core™ i7-8700 3.20 GHz
Memory	16 GB DDR3 1600 MHz
Drives	
Hard Drive	1 TB Crucial / Samsung SSD
Optical Drive	Slot DVD-RW Drive
Graphics	NVIDIA® GeForce® RTX 4060 1 x HDMI 3 x Display Port
Input Devices	
Mouse	USB Optical Mouse
Keyboard	USB Keyboard
Connectivity and Communications	
Network Interface	4 x Gigabit Ethernet
Ports	7 x RS-232 4 x USB 2.0 2 x USB 3.0
Echoscope Time Lock	1 x RS-232 (Time String Input) & 1 x BNC (1 PPS Input)
Dual Sonar / Rotator Connector	Deutsch® AS0-20-16SN
VDSL (Optional)	
Video Connectors	1 x HDMI 3 x Display Port
Form Factor	3U 19” Rackmount
12V DC Auxiliary Power	For external accessories such as AtlasLink™
Pyshical	
Dimensions (L x W x H)	400 mm x 427 mm x 133 mm (15.7” x 16.8” x 5.2”)
Weight	13.5 kg (29.8 lbs)
Power	
Input Supply Voltage (PC)	120-240V AC (50-60 Hz)
Input Supply Voltage Sonar / IPT Power Supply	120-240V AC (50-60 Hz)
Output Voltage Sonar / IPT Power Supply	29V DC
Output Voltage Accessories	12V DC AUX
Software	Microsoft® Windows® 11 Pro 64 bit 4G USE®* CodaOctopus® Underwater Survey Explorer* CodaOctopus® PIPE Core* CodaOctopus® DIU *Pre-installed software suite based on client requirement

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