

3D Productivity Station (3DPS)

Intuitive Integration Platform

Ruggedized, Industrial PC-Based Solution for Use with the Coda Octopus 3D Real-Time Sonar Range.

The 3D Productivity Station (3DPS) is a fully integrated acquisition and processing workstation designed to serve as the hub of a larger scale deployment. Housed within a compact 3U, 19-inch rack-mountable chassis, the 3DPS combines high-performance computing, integrated sonar power distribution, communications interfaces, and timing functionality into a single solution. Its all-in-one design reduces equipment footprint, and provides a reliable platform for demanding offshore applications.

Configured to meet individual project requirements, the 3DPS supports Coda Octopus' industry-proven software suite. Equipped with powerful processing and graphics hardware, the system is optimized for real-time 3D sonar visualization, data acquisition, recording, and processing, enabling users to maximize the performance of Echoscope® sonar systems during your project's operations in a host of applications from survey and inspection to construction monitoring or obstacle avoidance.

The 3DPS provides seamless integration with the wider Coda Octopus equipment suite, including Echoscope® real-time 3D sonars, IPT and ISAR rotators and F180® and F280® positioning and attitude systems. Supporting integrated Time Lock functionality and a comprehensive range of serial and network interfaces, the system enables accurate sensor synchronization and straightforward integration of ancillary survey equipment. The addition of the UIS Camera Gen 2.0 and the Echoscope® Air LiDAR 2.0 further enhances the situational awareness by providing synchronized above- and below-water imagery and point cloud data, creating a complete and scalable sensor deployment solution.



Some of the innovative 3DPS features available are:



Rack Mountable

Designed to be integrated with existing rack setups



Plug-and-Play

Simple plug in solution for the Echoscope PIPE®



Dual Time Sync Capability

For Echoscope® sonar, ISAR or IPT



Complete Integration

Compatible with the Echoscope®, Rotators and Motion Sensors

Processor	Intel® Core™ i7-8700 3.20 GHz
Memory	16 GB DDR3 1600 MHz
Hard Drive	1 TB Crucial/Samsung SSD
Optical Drive	Slot DVD Drive
Graphics	NVIDIA® GeForce®
Graphics Input	1x HDMI 3x Display Port
Input Devices	USB Optical Mouse USB Keyboard
Connectors	2x Gigabit Ethernet 7x RS-232 4x USB 2.0 2x USB 3.0 1x RS-232 (Time String Input) 1x BNC (PPS Input) Deutsch AS0-20-16SN Screw Terminal Block
Video Connectors	2x DVI (Dual-Head Output) 1x HDMI 3x Display Port
Form Factor	3U 19" Rackmount
Auxiliary Power	12 V DC Auxiliary Power for Motion, Camera and AtlasLink™
Power Input (PC)	120 - 240 V AC
Output Supply (Sonar/IPT)	27 V DC - 12 V DC AUX
Dimensions	400 mm x 427 mm x 133 mm (15.7" x 16.9" x 5.25")
Weight	13.5 kg (28.6 lbs)