# /3DPS 5G

# Coda Octopus 3D Productivity Station (3DPS)

The 3D Productivity Station (3DPS) is a ruggedized, industrial PC-based solution for use with the Coda Octopus 3D real-time sonar range.

The 3DPS is a 3U form-factor 19" rack-mountable unit featuring an integrated power supply for 3D sonar and IPT/ISAR units, Auxiliary 12V power for supported accessories (F180®, F280®, Atlas Link, UIS Camaera), Echoscope and IPT/ISAR Time Lock functionality, optional VDSL module and a range of serial ports for interface to ancillary survey sensors.

The unit is configured to the user requirement with CodaOctopus® Underwater Survey Explorer, 4G USE® software or USE PIPE Core software. The 3DPS uses a high-end processor and graphics hardware to deliver excellent 3D graphics rendering, data acquisition and processing performance.

The 3DPS Feature Upgrade, in conjunction with the latest DIU Configuration Setup and Underwater Survey Explorer offer a seamless and scalable processing workstation for tight integration of our range of Echoscope real-time 3D sonars and the UIS primary sensor package. The 3DPS now fully supports direct connection with our 3D IPT and ISAR rotators for flexible and dynamic surveying and inspection, coupled with the industry proven F180 series for high accuracy position and attitude compensation.

Finally, users can add the UIS Day/Night digital camera or Echoscope® Air camera for simultaneous above and below waterline imaging for critical recovery and inspection tasks.

Along with the Echoscope sonar range, the 3DPS completes the all-in-one sonar deployment package with an approved solution delivering proven performance and reliability.

## Features

- Integrated 12V AUX Power provide easy support for our F180 Series, UIS Camera, and AtlasLink™
- Seamless and scalable processing workstation
- Tight integration to our real-time 3D sonars (3G, 4G, PIPE)
- Ruggedized PC platform for harsh environments
- Designed for integrated use with CodaOctopus 3D real-time sonar range and accessories
- Dual-output power supply supporting sonar and IPT
- Approved solution for CodaOctopus® Underwater Survey Explorer, 4G USE® and USE PIPE Core software
- Plug-and-play solution for sonar deployment
- Integrated Echoscope and Pan & TILT / ISAR Time Lock function
- Full range of ports for ancillary sensors interface

## Hardware

| | |
|---|---|
| Processor | Intel® Core™ i7-8700 3.20 GHz |
| Memory | 16 GB DDR3 1600 MHz |
| Drives<br>Hard Drive<br>Optical Drive | 1 TB Crucial/Samsung SSD<br>Slot DVD drive |
| Graphics | NVIDIA® GeForce® GTX 1660<br>1 x HDMI<br>3 x Display Port |
| Input Devices<br>Mouse<br>Keyboard | USB Optical Mouse<br>USB Keyboard |
| Connectivity and Communications<br>Network Interface<br>Ports<br><br><br>Echoscope Time Lock<br>Dual Sonar/ Rotator Connector<br>VDSL (Optional)<br>4x Gigabit Ethernet | 2 x Gigabit Ethernet<br>7 x RS-232<br>4 x USB 2.0<br>2 x USB 3.0<br>1 x RS-232 (Time String Input) & 1 x BNC (1PPS input)<br>Deutsch AS0-20-16SN<br>Screw Terminal Block |
| Video Connectors | 2 x DVI (Dual-Head Output)<br>1 x HDMI 3 x Display Port |
| Form Factor | 3U 19" rackmount |
| 12V DC Auxiliary Power | For the F180, Camera, and AtlasLink™ |

## Software

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|---|---|
| | Microsoft® Windows® 11 Pro 64 bit<br>CodaOctopus® Underwater Survey Explorer<br>*Pre-Installed software suite based on client requirement |

## 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 | 27V DC - 12V DC AUX |

## Physical

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|---|---|
| Dimensions (L x W x H) | 400mm x 427mm x 133mm (15.7" x 16.8" x 5.25") - 13.5kg (28.6lbs) |

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