

3D Connect (NGS)

Intuitive Integration Platform



The 3D Connect (NGS) is the newest generation of power, control and data integration units designed specifically for the newest generation of sonars, the Echoscope PIPE NANO Gen Series®. The New 3D Connect (NGS) is designed to optimally support multiple sensor deployments (such as sonars, rotators, external cameras, LiDAR and GNSS systems). The 3D Connect (NGS) supports Gigabit ethernet networking support as standard for all attached sensors and computers.

Designed to effortlessly handle data and control of all Coda Octopus 3D Hardware, while also supporting additional sensors such as Sound Velocity Profilers, which are easily integrated with the 3 onboard serial ports and auxiliary 12V power. The 3D Connect (NGS) allows users to further simplify deployment of the Echoscope® range of 3D sonars, increasing project efficiency by saving surveyors time with an intuitive, easy-to-use solution.

Its web-based diagnostics and monitoring interface enable simple online control of all connected devices, including power usage, which is essential for battery or generator-based power setups. Moreover, it is fully supported in all Coda Octopus software, including 4G USE®, and Construction Monitoring Software (CMS). With the flexibility to be mounted on walls for permanent setups or used on any available vessel, the 3D Connect (NGS) offers both AC and DC power options, making it an ideal choice for deploying Echoscope® on any vessel or surface.



Quick and Easy

Setup with full support in all Coda Octopus Software



Web Based App

Built-in Diagnostics, Monitoring and Configuration



Dual Time Sync Capability

For Echoscope® sonar, ISAR and IPT



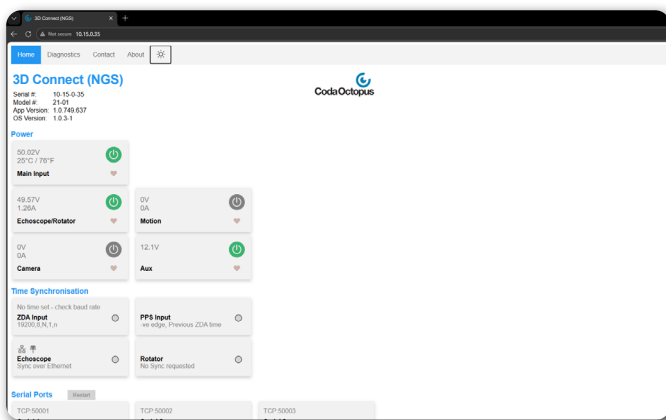
Dual Gigabit

Networking Support for multiple clients

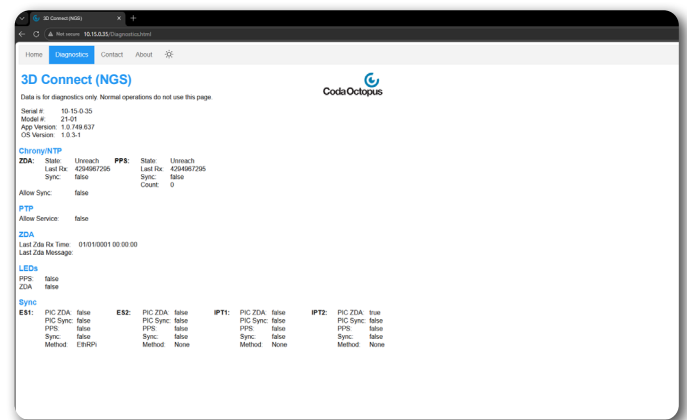


External GNSS

Support for external GNSS Corrections



3D Connect (NGS) Web UI Homepage



3D Connect (NGS) Web UI Diagnostics

3D Connect (NGS) Technical Specifications

Power

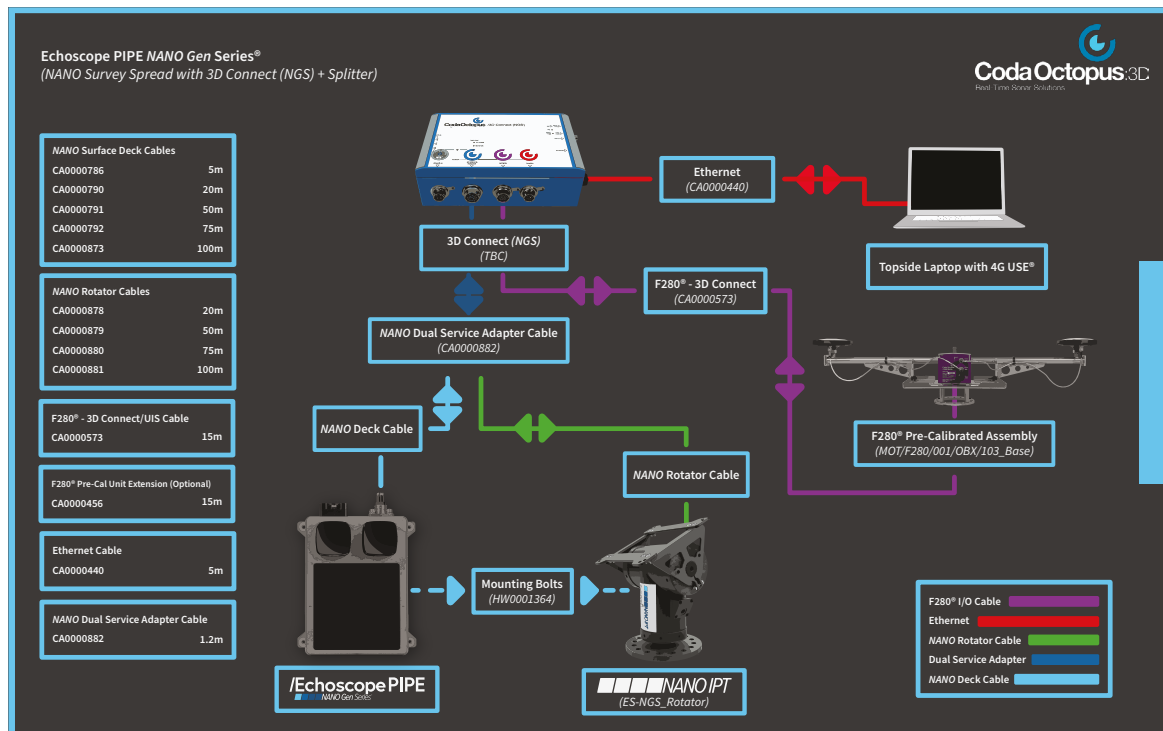
Power Input	48V DC Input Available from 3D Connect PSU or Direct 48V DC Power Source
Power Output	Multi-Output Power Supply supporting all connected sensors Additional 12V DC Auxilliary Power Output (2A)

Data Input/Output

Up to 2x Coda Octopus Sensors (Sonar, Motion, Camera & Rotator)
 2x RJ45 Ethernet Gb/s Ports for PCs
 3x RS232 DB9 Serial for External Sensor Input
 2x RS232 DB9 Serial GNSS Corrections I/O
 1x BNC PPS TTL Signal Input
 1x RS232 DB9 Serial Time Input Connector (ZDA)

Physical

Dimensions L x W x H	278mm x 170mm x 90mm (10.94" x 6.69" x 3.54" in.)
Weight in Air	3kg (6.61lbs)



Publication Date: 02.04

Version 1