Coda Octopus
Sound Underwater Intelligence

/Echoscope® Time Lock Power Supply

Benefits

Synchronise Echoscope to external time source

1ms accuracy

Improve mosaicked data accuracy with post-processed navigation

Integrated power and communications hub

Synchronize the Echoscope to an External Time Source

The Time Lock Power Supply keeps the CodaOctopus Echoscope sonar accurately synchronized to an external time source.

With a synchronization accuracy of 1 millisecond, the Echoscope system will be synchronized with the time source for the duration of the survey.

The accuracy of the 3D mosaicked data can be greatly improved by applying a post-processed navigation file using the Corrected Navigation feature in CodaOctopus Underwater Survey Explorer.

The Time Lock Power Supply requires only a standard NMEA ZDA string over RS-232 and a 1PPS (pulse per second) signal as inputs.

Easy-to-read LEDs on the power supply housing display the status of both inputs and the synchronization status.

Available on new power supplies, the time lock feature is a valuable addition to the Echoscope real-time 3D data acquisition capability.

This functionality is also available in the 3D Productivity Station (3DPS), Vehicle Integration Module (VIM) and as an OEM hardware package.

This functionality is fully compatible with the CodaOctopus F180 Series and F175 products.

Specifications

Time Lock Feature (Echoscope only)

Inputs

- DB9 RS-232 NMEA ZDA or Trimble UTC string. User-selectable serial settings.
- BNC 1PPS (TTL). User-selectable edge.

Outputs

- Echoscope data time-stamped to 1ms accuracy
- NMEA ZDA reception status LED, PPS reception status LED, Synchronization status LED

Power and Data (Echoscope)

Power Input / Output

- 110-240V AC, 50-60 Hz
- 29.5V DC, Max 300 W
- Digital current display in Amperes (sonar power)

Data Input / Output

- DB9 RS-232 serial port (sonar commands)
- 10 Mbps half-duplex Ethernet (sonar data)
- Ethernet status LED, Command transmit status LED, Data receive status LED

Physical

- Dimensions: 365(L) x 175(W) x 90(H) mm (14.8” x 6.9” x 3.6”)
- Weight : 4.3 Kg (9.5 lbs)

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