



GeoAcoustics GeoPulse Compact Support Added to HYPACK

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Included in the 2024 Q1 update is support for the GeoAcoustics GeoPulse Compact sub-bottom sonar. Following the setup steps below is a quick feature review and notes on other upgrades to the sub-bottom driver.

1. Add the Sub-Bottom Driver to your vessel in HYPACK Hardware.
2. Open the Sub-Bottom Driver settings.
3. Choose GeoAcoustics GeoPulse Compact from the list.
4. Go to the Survey Device tab and configure the Connection Type as follows:

Connection Type: Network

Network Parameters

Protocol: TCP Role: Client

Host: 10.0.0.44

Port: 35700

Protocol, Role, and Host settings are ignored by the driver as they are the same across all GeoPulse Compact systems. The default port is 35700 for all GeoPulse Compact systems.

All controls for the device are available natively in HYPACK:

GeoPulse Controls

Channels

☒ Hydrophone ☒ Transducer

Trigger Period (ms): 500 Sample Period: 20us

Sample Delay (ms): 0 Transmit Volume %: 10

Sample Window (ms): 100

Waveforms

Transmit Waveform: Pinger

Frequency (kHz): 5.5 (4-15kHz) No of Cycles: 2

Correlation Method: [Dropdown]

OK Cancel Apply

Notably, the sonar has a wide selection of transmit waveforms, including pinger, ricker, and many more. Specific descriptions of these settings should be provided by GeoAcoustics when you purchase your sonar.

The driver has received thorough testing from a cooperation between HYPACK and GeoAcoustics. As part of this cooperation, additional generic improvements to the sub-bottom driver have been made. Firstly, the waterfall now renders at a higher resolution, creating a more pleasant-looking and accurate real-time display. Additionally, each channel now has a dedicated waterfall buffer - switching channels will no longer wipe the display of historical data.