

PEGASUS OBS DIGITAL RECORDER DATA ACQUISITION SYSTEM

An intuitive and versatile ecosystem for ocean bottom experiments

Designed specifically for ocean bottom experiments, the Pegasus OBS workflow optimizes onshore and shipboard processes to address common challenges of this demanding environment. A compact and mobile integrated seismic acquisition system, Pegasus OBS combines high fidelity data acquisition with ultra-low power consumption to provide a versatile platform for any experiment.

From Experiment Design to Publishing

Streamlined Workflow

The Pegasus OBS workflow allows you to effectively plan your deployment and pre-configure the digitizer and sensor prior to boarding the ship. Once on-deck, the system configuration can be set or adjusted using the Bluetooth enabled mobile app, all without needing to open the pressure vessels.

Ultra-low Size, Weight and Power

The remarkably small form factor and low power consumption of the Pegasus OBS digital recorder minimizes the cost of batteries, extends maximum experiment duration, reduces overall station size requirements, and simplifies integration into existing systems or new vessel designs.

Versatile Sensor and Power Compatibility

Pegasus OBS supports a broad range of sensor types including active and passive seismometers or geophones, pressure gauges and hydrophones. Four input channels permit simultaneously recording seismic and pressure or hydroacoustic signals.

The Pegasus OBS can utilize a wide range of power sources, allowing you to select the equipment that best suits the experiment. A separate backup power input permits use of a reserve battery to keep the timing system running even after the main batteries are depleted, so that clock drift can always be measured against GNSS at the end of an experiment

High-Precision Timing

Pegasus OBS' high-precision timing system includes a low-drift temperature compensated clock, a real-time clock, and an internal GNSS receiver. Simple one-tap mobile app actions synchronizes the internal clock to GNSS time just before deployment, and measures time drift offset relative to GNSS time immediately after recovery.

Complete Ready-to-Process Data

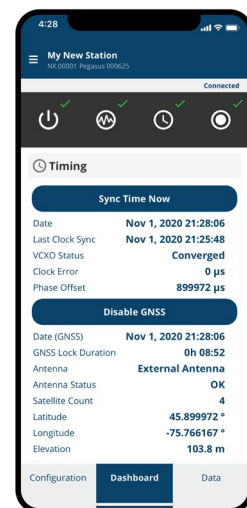
Retrieving data has never been easier for OBS deployments. The Pegasus OBS digitizer automatically produces complete, ready-to-use data in MiniSEED format along with StationXML instrument response and experiment metadata. Retrieve 1 year of 4-channel 100 sps data in less than 2 minutes, all without having to open the pressure vessel.



Purpose Built, OBS Workflow

Every aspect of the Pegasus OBS ecosystem has been optimized to provide the greatest efficiency for ocean bottom experiments.

- Powerful pre-planning tools
- Bluetooth mobile interface allows you to configure the digitizer without opening the pressure vessels
- Low SWaP (Size, Weight and Power) minimizes battery cost and overall system size
- Retrieve 1 year of 4-channel 100 sps data in less than 2 minutes
- High fidelity data produced by very low noise, high precision digitizer technology
- Complete, ready to analyze datasets



iOS and Android apps connect seamlessly over Bluetooth to provide the primary on-deck interface for the Pegasus OBS.

