



The **OBS-24** is a complete economical ocean bottom seismograph for temporary deployment with retrievable applications.

It is field proven with 100's of packages installed over 5 years.

The instrument package includes a triaxial seismometer, hydrophone, 24-bit recorder, batteries, acoustic release system, flasher, and frame. A radio transponder is not installed in the standard unit because each radio must

have a license according to local laws. As an option, a flasher with transponder can be added. The package power consumption is extremely low. The gimballed seismometer package can operate up to a +/- 45-degree tilt. The 100Kg weight with sinker provides excellent seabed coupling and minimizes current drag. The sphere buoyancy is approximately 5Kg.

Compared to other OBS systems this one is lightweight with small dimensions. The standard instrument package operates for 30days. Longer duration is available with additional batteries. The package is forklift compatible.

The instrument package comes standard with an 8 GB flash card for data storage. Optional 30Gb removable hard disk is available. Optional freestanding expansion disk reader that connects to a standard PC USB port is also available.

## OBS-24 Specifications

PARAMETER	OBS-24
Recorder	DAT-5OBS
Number of channels	4
Gain	20dB or 40dB selectable at preamplifier hardware switch
ADC converter	24-bit Delta Sigma on each channel
Resolution	120 dB @ 100Hz sample rate
Sample Rates	50, 100, 200, 250Hz
Recorder input range	Matches sensors. +/-2 at ADC converter input
Over voltage protection	+/-5V at ADC input for analog signal input
Internal buffer memory	8Mb
Digital Filters	Included in the ADC
Recording method	Continuous, user selectable start and stop times
Timing	TCXO +/-2 x E <sup>-7</sup> set by included GPS
Data storage capacity	8Gb Flash card standard (1 month operation)
Data storage optional	30Gb hard disk (3 month operation)
File structure	FAT32
Data retrieval standard	Removable flash card and read by any PC. (FAT 32 file structure)
Data retrieval hard disk (Opt)	Connect to any standard PC USB port via disk reader
Setup interface	RS-232. External PC (terminal software)
Geophone	GM-3, sensor elements L-22B
Tilt	+/-45 deg.
Hydrophone	Sensortech model SQ-06
Acoustic release.	Slant range Appx. 10Km, acoustic code selectable up to 120 channels
Flasher	Novatech ST-400A
Power supply	7V to 12V DC
Power consumption	0.5W, appx 2.8W when recoding (15sec every 30min)
Maximum depth	6,500m
Weight	100Kg includes sinker, appx buoyancy 5Kg
Batteries	D-cell Alkaline standard (low cost), Li-ion optional (expensive)

*Specifications subject to change without notice*

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