

Ocean Sound Meter 2

OSM 2

Underwater sound level meter and acoustic data recorder

Calibrated sound level measurements in real time

An over-the-side underwater sound level meter and acoustic recorder specifically designed for environmental noise monitoring. Sound levels are displayed in real time for immediate assessment.



Real-time spectrogram display



Configurable impulse detector



Multiple metrics: rms SPL, PK, SEL, etc.



Easily deployed by hand



Battery pack for 24 h runtime (optional)

The OSM 2 provides precisely calibrated measurements to quickly capture and quantify sound from:

- Pile driving
- Seismic surveys
- Low- and mid-frequency sonar
- Ambient/background noise
- Marine fauna



Standard Equipment

- OSM 2 deck set in watertight enclosure
- Broad bandwidth hydrophone with 50 m cable
- 25 m Ethernet cable
- AC power cable
- OSM software and user manual
- Rugged wheeled transport case

Optional Add-ons

- Rechargeable battery packs (24 h runtime each)
- Field-rated notebook computer with pre-installed OSM software
- Additional hydrophones
- Extended hydrophone cable(s)
- Internal recording capability (up to 6 TB)
- Extended Ethernet cable



Technical Specifications

Acoustics

Channels:	1–4 (standard), up to 8 (optional)
Resolution:	24 bits
Sample rates:	8, 16, 32, 64, 128, 256, 512 ksp/s
Noise floor:	Better than -149 dB re FS per root Hz at all sample rates
File format:	WAV (uncompressed)

Hydrophones

Sensitivities and frequencies tailored to your needs.

Standard model is GTI M36-900:

Unamplified sensitivity:	-200 dBV re $1 \mu\text{PA}$ @ 100 Hz
Optional pre-amplification:	0 – 35 dB

Or customizable options from various manufacturers.

Software for Windows, Linux, and Mac

Displays sound pressure levels and sound exposure levels (peak pressure level (PK), rms SPL, and SEL) for the entire recording or for user selected portions of data.

Detects impulses automatically and displays their sound levels. Configurable detection parameters to suit the sound source. Lets you listen in real time or play back a period of interest.

Environmental

OSM 2 deck set and battery packs:

Operating temperature: -15 to 50 °C

Storage temperature: -18 to 55 °C

Rated to NEMA 6P/IP68 for 1 m submersion for 1 h

Tested to MIL-STD-167 for shipboard vibration

Impact rated to ASTM D5276 for free fall drops

Rugged transport case tested to ASTM D999-01 A2 for loose load vibration.

Physical & Power

Transport case:	$83 \times 54 \times 41$ cm	33 kg
Deck set:	$27 \times 30 \times 11$ cm	2.2 kg
Power:	110 – 240 V _{AC}	50 – 60 Hz
	10 – 28 V _{DC}	
Stackable battery packs:	$27 \times 30 \times 11$ cm	3.6 kg
	NiMH, 120 Wh	(~ 24 h runtime)

Deck set includes tiedowns and carry handles.

Learn more at www.jasco.com/osm2.

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