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

JASCO Applied Sciences
www.jasco.com
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 ksps
- 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 µPA @ 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 ºC
  - Storage temperature: −18 to 55 ºC
- 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 × 54 × 41 cm, 33 kg
- Deck set: 27 × 30 × 11 cm, 2.2 kg
- Power: 110–240 VAC, 50–60 Hz
  - 10–28 VDC
- Stackable battery packs: 27 × 30 × 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.