Ocean Sound Meter 2

OSM₂

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.

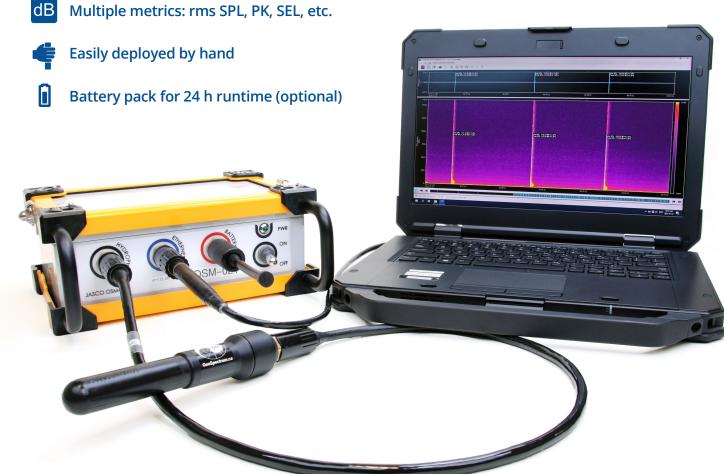
Real-time spectrogram display

____ Configurable impulse detector

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 preinstalled 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 °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:
 $83 \times 54 \times 41 \text{ cm}$ 33 kg

 Deck set:
 $27 \times 30 \times 11 \text{ cm}$ 2.2 kg

 Power:
 $110-240 \text{ V}_{AC}$ 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.

Specifications subject to change without notice. © JASCO Applied Sciences, v1.1

ASCO
APPLIED SCIENCES



iasco.com/osm2

Canada—Halifax, NS +1-902-405-3336 halifax@jasco.com Canada—Victoria, BC United States +1-301-565-3500 usa@jasco.com

For more information, contact your nearest JASCO Applied Sciences office:

United Kingdom +44 (0) 1489 878439 europe@jasco.com

tralia Germany . 7 3823 2620 +49 1529 0011705 tralia@jasco.com europe@jasco.com

ISO 9001 Certified