



Cesium Ocean Magnetometer M-T01



The M-T01 is a high-precision magnetic target detector distinguished by its compact design and cost efficiency. Engineered for professional underwater surveys, it enables rapid scanning of large areas to detect small magnetic anomalies and seabed targets.

Widely used in applications such as subsea power cable inspection, shipwreck search and rescue, magnetic background field surveys, unexploded ordnance (UXO) clearance, and general target detection.

Cesium Vapor High Performance

Featuring a streamlined design for safe towing.

The system is housed in a robust, non-magnetic casing designed to minimize entanglement risks and ensure durability in demanding underwater environments. It features a sampling rate of up to 50 Hz, enabling high-resolution magnetic data acquisition for precise target detection.

It supports multi-sensor array configurations, allowing for expanded coverage, enhanced detection sensitivity, and reduced noise interference during operations.

Principle: Self-oscillating cesium optical pumping

Measurement Range: 19,500 – 100,500 nT

Noise Level: < 0.01 nT

Maximum Sampling Rate: 50 Hz

Operating Area: Global

Heading Error: < 1 nT

Output: RS-232, baud rate 1200–19200

Power Supply: 24–32 V DC

Specification:

Equipment Diameter: 7 cm

Length: 137 cm

Weight: 18 kg (includes sensor, electronics, and main counterweight. Additional weight rings are 6.4 kg each, with capacity for 5 rings.)

Tow Cable Diameter: 12mm

Length options: 100m (20kg), 150m (30kg), 200m (40kg)

Breaking Strength: 1630kg

Minimum Bend Diameter: 30cm

Operating Environment:

Operating Temperature: -35°C to +50°C

Storage Temperature: -45°C to +70°C

Max Altitude: 9,000 m

Depth Rating: 4,000 psi (2,730 m)

Waterproofing: O-ring sealed, operational at depths up to 4,000 psi

