



Echo Sounder Survey System with Affordable Decimeter GNSS Positioning – World Wide

The CEESCOPE™ PHANTOM is CEE HydroSystems “all in one” hydrographic echo sounder designed for the Hemisphere Atlas L-Band correction service. With a complete single beam survey system in a compact and waterproof case, including internal battery power, touchpad LED user interface, data logger and now Hemisphere’s PHANTOM GNSS receiver, the CEESCOPE™ PHANTOM is ideal for shallow water surveys anywhere in the world. Offering a scalable approach combining dual frequency GNSS with the world-wide Atlas L-Band correction service, CEESCOPE™ PHANTOM users gain access to decimeter-accurate positioning and the benefit of multi constellation performance with a single subscription. Only pay for the accuracy that you need, when you need it. Compatible with all hydrographic software packages, the CEESCOPE™ PHANTOM echo sounder is a complete hydrographic grade single beam survey solution.

Hemisphere’s Atlas is a flexible cost-effective subscription GNSS corrections service, delivering signals to the CEESCOPE™ via L-Band satellites. With 200 reference stations worldwide, L-Band satellites distribute coverage from 75°N to 75°S.

CEESCOPE Echo Sounder Specifications:

Weight:	3.6 kg (8lbs)
Ping Rate:	1 - 20Hz
Depth Range:	0.2 - 200m (0.6 - 650 ft)
Transducers:	24 kHz, 33 kHz, 200 kHz
Accuracy:	1cm ± 0.1% of depth
Waveform:	3200 samples per ping echogram
Output:	Ethernet, Bluetooth, RS232
Data logger:	USB interface, 16GB

CEESCOPE Internal GNSS Specifications (with Atlas):

Channels:	800+ – Phantom OEM
Signals:	GPS L1/L2/L5 GLONASS G1/G2/G3, P1/P2 BeiDou, GALILEO, QZSS
H100:	1 m 95% (50 cm RMS)
H30:	30 cm 95% (15 cm RMS)
H10:	8 cm 95% (4 cm RMS)
Update rate:	20Hz

