CEESCOPE LITE™

The ‘All in One’ complete portable survey solution with an even smaller footprint

Compact

This ‘All in One’ compact unit features integrated RTK GNSS positioning, a dual channel echo sounder, with full water column recording, internal data logging and a rechargeable NiMH battery.

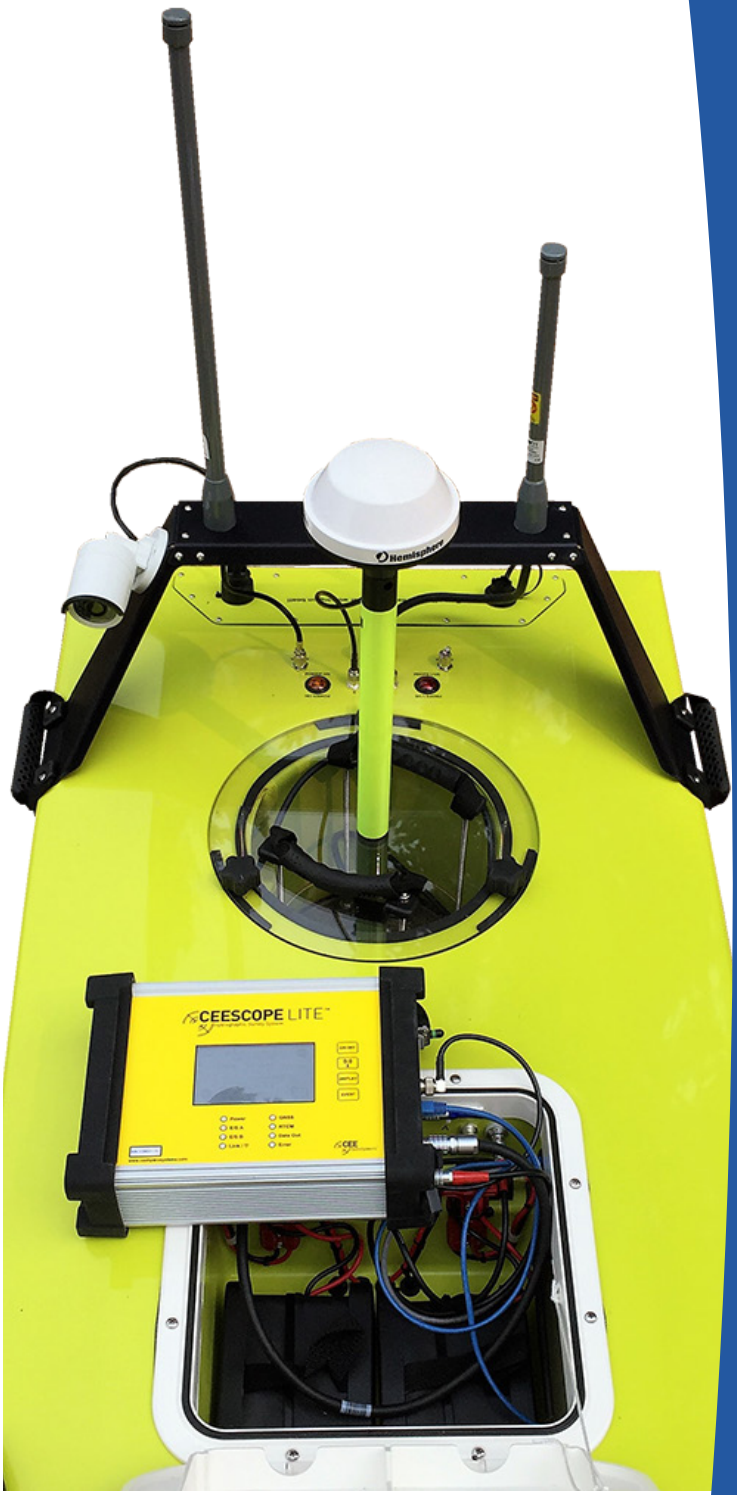
It has been designed to work in remote controlled and dedicated survey vessels while occupying minimal space.

CEESCOPE LITE™ Advanced features

The echo sounder operates in automatic or manual mode and is capable of recording a high resolution (3200 spp) full water column acoustic envelope. This results in extremely detailed acoustic data for accurate post processing analysis.

Integrated with the latest GNSS receivers the unit utilises all known GNSS signals, this makes the unit a future proof investment.

A removable waterproof USB memory stick connects to the unit making it simple to log real time data and then transfer logged survey data to a PC. All data is internally PPS time stamped.



CEE HydroSystems™

www.ceehydrosystems.com

CEESCOPE LITE™

General Specifications

Physical

Dimensions	31.0 x 21.5 x 9.2 cm (L x W x D) 12.2” x 8.46” x 3.62”
Display	420 x 272 touch screen colour LCD
Weight	3.45 kg (8.05 lbs)*
Connectors	LEMO 1K & 2K series, RJ45, TNC

Environmental

Operating temperature	0°C – 50°C (32°F – 122°F)
Humidity	95% non condensing
Ingress protection rating	IP67

Power

Power consumption	7.2 W - Eclipse L1 Basic Max 23 W + LAN2 PoE requirements
Internal battery	Rechargeable NiMH battery 3Ah
Antenna voltage output	5.0 VDC (nominal)
External power supply	Nominal 12.0 VDC @ 2A (9-30 VDC range)

Connectivity

Dual Network Port	2 x PoE Capable (Passive + 802.3af)
Bluetooth	50m range*
Wi-Fi	0 – 1000 m range*
Internal UHF Rx modem	403 – 473 MHz (RTK only)

Transducer Options

Standard 200 kHz	9° beam width @-3dB
Narrow Beam 200 kHz	3° beam width @-3dB
Dual 200/33 kHz	8°/19° beam width @-3dB
Dual 200/24 kHz	4°/24° beam width @-3dB

Echo Sounder

Mode	Auto Shallow, Auto or Manual
Depth range**	0.15 – 200 m (0.6 – 650 ft) @ 200 kHz 0.75 - 200 m (2.5 - 650 ft) @ 24/33kHz
Ping rate	1 – 20 Hertz, depth dependent
Pulse length	HF (1 – 35), LF (1 – 30)
TVG	None, LOG 10, LOG 20
Manual gain	30 – 100%
Sound Velocity Range	1350 – 1750m (4,429 – 5,741 ft)
Draft	0 – 10 m (1 cm increments)
Accuracy	1 cm ± 0.1% of depth
Resolution	1 cm

External Data Interfaces (RS-232)

GNSS input	NMEA 0183
IMU input	TSS 1 (Heave Aiding)
Compass	NMEA 0183, HDT or HDG
RTCM	UHF or Network

GNSS Receiver Options

	Horizontal Accuracy (metres)	Constellations	Channels
Hemisphere Eclipse L1	± 1.2 - No Corr. (RMS GPS) ± 0.3 SBAS (RMS DGPS)	GPS	372
Hemisphere Eclipse L1/L2	± 0.5 Atlas Basic (RMS DGNSS) ± 0.04 Atlas H10 (RMS DGNSS)	Multi-Constellation	372
Hemisphere Eclipse L1/L2 RTK	± 0.008 (RMS RTK)	Multi-Constellation	372
NovAtel 729 L1/L2	± 0.6 SBAS (RMS DGPS) ± 0.05 TERRASTAR (RMS DGNSS)	GPS / GLONASS	555
NovAtel 729 L1/L2 RTK	± 0.01 (RMS RTK)	GPS / GLONASS	555
Trimble BD970 RTK	± 0.5 SBAS (RMS DGPS) ± 0.008 (RMS RTK)	GPS / GLONASS	220

* line of sight
* series dependent

- specifications are subject to change
- visit www.ceehydrosystems.com for the complete list of specifications
- v19071

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