CEESCOPE™

The next generation of 'All in One' complete portable survey solutions

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.

Rugged

Encased in a virtually indestructible Pelican case the CEESCOPE™ has been designed and manufactured using high quality components to withstand harsh environments.

It can be easily deployed on small opportunistic platforms, including: kayaks, canoes, personal water crafts (jet ski) and other small vessels.

CEESCOPE™ 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.

Wireless connectivity makes it easy to link with external hardware, including: Tablet PC, PDA and Notebook PC.

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.



www.ceehydrosystems.com



CEESCOPE[™]

General Specifications

Oerierai Opecilio	ations					
Physical		Transducer Option	ıs			
Dimensions	30.0 x 25.0 x 13.8 cm (L x W x D)	Standard 200 kHz			eam width @-3dB	
	11.81" x 9.84" x 5.43"	Narrow Beam 200 k			eam width @-3dB	
Display	420 x 272 touch screen colour	Dual 200/33 kHz			9° beam width @-3dB	
\\/a:= a4	LCD	Dual 200/24 kHz	4	1°/24	4° beam width @-3dB	
Weight Connectors	3.65 kg (8.05 lbs)* LEMO 1K & 2K series, Industrial RJ45, TNC	Echo Sounder				_
Connectors		Mode	_	Διιτο	Shallow, Auto or Manual	
Environmental	·	Depth range*	C		- 200 m (0.6 - 650 ft) @	
Operating temperature Humidity	0°C - 50°C (32°F - 122°F) 95% non condensing		C	0.75	- 200 m (2.5 - 650 ft) @ 3kHz	
Ingress protection rating	IP67	Ping rate	1	1 – 2	20 Hertz, depth dependent	
Power		Pulse length		•	1 – 35), LF (1 – 30)	
Power consumption	7.2 watts (approx operating time 8	TVG			e, LOG 10, LOG 20 100%	
	hours) - Eclipse L1	Manual gain Acoustic Velocity Ra	-) – 1750m (4,429 – 5,741 ft)	
Internal battery	Rechargeable high capacity NiMH	Draft	•		10 m (1 cm increments)	
A	battery 10Ah	Accuracy			1 ± 0.1% of depth	
Antenna voltage output External power supply	5.0 VDC (nominal) Nominal 12.0 VDC @ 2A	Resolution External Data Interfaces		1 cm (RS-232)		
External power supply	(9-30 VDC range)					
Connectivity		GNSS input	N	NME	A 0183	
Network Ports	1, 2***	Heave input	Т	TSS	1 (Heave Aiding)	
Bluetooth	0 – 50 m range**	Tide input	C	CEE	TIDE	
Wi-Fi	0 – 1000 m range***	RTCM			232 UHF or Network	
Internal UHF Rx modem	403 – 473 MHz (RTK only)	Compass input		NMEA 0183, HDG or HDT		
GNSS Receiver Options						
	Horizontal Accuracy (metres)	Constellations	Channe	els	Correction Inputs	
Hemisphere Eclipse L1	± 1.2 - No Corr. (RMS GPS) ± 0.3 SBAS (RMS DGPS)	GPS	372		RTCM v2.x (DGPS)	
Hemisphere Eclipse L1/L2	± 0.5 Atlas Basic (RMS DGNSS)	Multi-Constellation	372		RTCM v2.x (DGPS)	

		Horizontal Accuracy (metres)	Constellations	Channels	Correction Inputs
Hemisp	ohere Eclipse L1	± 1.2 - No Corr. (RMS GPS) ± 0.3 SBAS (RMS DGPS)	GPS	372	RTCM v2.x (DGPS)
Hemisp	ohere Eclipse L1/L2	± 0.5 Atlas Basic (RMS DGNSS) ± 0.04 Atlas H10 (RMS DGNSS)	Multi-Constellation	372	RTCM v2.x (DGPS)
Hemisp	ohere Eclipse L1/L2 RTK	± 0.008 (RMS RTK)	Multi-Constellation	372	RTCM v2.x (DGPS) RTCM v3.x/CMR/CMR+(RTK)
NovAte	el 729 L1/L2	± 0.6 SBAS (RMS DGPS) ± 0.05 TERRASTAR (RMS DGNSS)	GPS / GLONASS	555	RTCM v2.x (DGPS)
NovAte	el 729 L1/L2 RTK	± 0.01 (RMS RTK)	GPS / GLONASS	555	RTCM v2.x (DGPS) RTCM v3.x/CMR/CMR+(RTK)
Trimble	BD970 RTK	± 0.5 SBAS (RMS DGPS) ± 0.008 (RMS RTK)	GPS / GLONASS	220	RTCM v2.x (DGPS) RTCM v3.x/CMR/CMR+(RTK) CRMx (Trimble RTK)

* series dependent ** line of sight

- specifications are subject to change

- visit www.ceehydrosystems.com for the complete list of specifications

*** CEELINK-R varient

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