

C500 Handheld

Diver Handheld Sonar Deployment

Real-Time 3D Handheld Sonar Giving Divers Clear Vision in Low and/or Zero Visibility Water Conditions

The Echoscope PIPE® C500 Handheld Frame makes it easy and comfortable for a diver to manually use one of our Compact Series sonars. With real-time 3D sonar data relayed to the topside Dive Supervision team, the C500 Handheld gives divers clear vision in low and/or zero visibility water conditions. Support for diving operations is enhanced by providing real-time high-resolution 3D images of live underwater operations including inspections, salvage, interventions, tracking and navigation whilst recording a documented dive record. Engineered for simplicity and intuitive operation, C500 Handheld is designed to make every stage of use effortless. Its neutrally buoyant design ensures the unit feels virtually weightless in the water—perfect for extended operations with minimal strain. Flexible mounting options allow the sonar to be positioned forward-looking or tilted between 0–25° in precise 5° increments, enabling clearer seafloor visualization; quick-release pins make these adjustments fast and seamless, even during a dive. With handles on the sides, top and bottom, operation is simple and effortless, while the sturdy base allows the unit to be placed down with out fear of damaging the sonar.

The system is fully compatible with the Coda Octopus Diver Augmented Vision Display (DAVD and DAVD Flex) systems that allows real-time 3D data to be relayed directly to the diver via the DAVD Heads Up Display (HUD).



Some of the innovative C500 Handheld features available are:



Echoscope PIPE NANO Gen Series®

3D imagery available direct to diver and at surface simultaneously, and just a shade bigger than a smartphone



Neutrally Buoyant

Designed with buoyancy to give the complete unit a neutrally buoyant weight in water



DAVD Compatibility

Can be used with DAVD and DAVD Flex systems to provide sonar data directly to the divers Head-Up-Display (HUD), allowing direct visualization of data



Adjustable Angles

Sonar can be mounted forward looking or tilted downward between 0-25° in 5° increments, and tilt allows easier seafloor visualization



Practical Handling

Handles on the sides and top/bottom allow convenient operation, base allows unit to be set down while protecting the sonar

Dual Frequency			Triple Frequency		
Acoustic Projectors	Mid-Frequency (375 kHz)	High-Frequency (630 kHz)	XD Low-Frequency (240 kHz)	Mid-Frequency (375 kHz)	High-Frequency (630 kHz)
Adaptive Frequency Band	315 kHz - 425 kHz	550 kHz - 700 kHz	220 kHz - 280 kHz	315 kHz - 425 kHz	550 kHz - 700 kHz
Number of Beams (Density)	Up to 256 x 256				
Number of Values per Beam	2,500 (Dependent on Features Purchased)				
Maximum Range*	120 m (394 ft)	80 m (262 ft)	150 m (492 ft)	120 m (394 ft)	80 m (262 ft)
Minimum Range*	0.5 m (1.64 ft)				
Angular Resolution (ERSA)	Up to 0.1°				
Range Resolution	3 cm (1.2")				
Update Rate (Ping Rate)	Up to 50 Hz				
Angular Beamwidth	Up to 0.6°x 1.2°				
Imaging Field of View (User Selectable)	54° x 54° – 46° x 46°	33° x 33° – 25° x 25°	100°x44° – 76°x 33°	54° x 54° – 46° x 46°	33° x 33° – 25° x 25°
Buoyancy Block	OOT - 010 Foam				
*The actual working range will depend on the target's size, reflectivity, and the level of detail required for the application					
Dimensions (H x W x D)	232 x 301 x 146 mm (9.1 x 11.9 x 5.7 in)			265 x 301 x 157 mm (10.4 x 11.9 x 6.2 in)	
Weight in Air	Deepwater 15.1 kg (33.3 lbs)	Surface 9.6 kg (21.2 lbs)	Deepwater 15.7 kg (34.6 lbs)	Surface 10.2 kg (22.5 lbs)	
Power Consumption	2 - 4 A at 24 V DC **An up to 10 A inrush for less than 20µs may occur on start-up.				
Depth Rating	40 m (131 ft)	250 m (820 ft)	600 m (1968 ft)	3000 m (9842 ft)	4000 m (13123 ft)

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