

NANO HANDHELD

NANO Handheld Sonar Deployment

Real Time 3D Diver Handheld Sonar Features

The Echoscope PIPE *NANO Gen Series*® Handheld Frame makes it easy and comfortable for a diver to manually use one of our ultra-compact *NANO Gen Series* sonars. With real-time 3D sonar data relayed to the topside Dive Supervision team, the *NANO Handheld* Frame 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, *NANO Handheld* is designed to make every stage of use effortless. Its neutrally buoyant design ensures the unit feels virtually weightless in the water, while an in-air weight of under 9 kg keeps handling easy before and after deployment—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.

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 Head Up Display (HUD).



Some of the innovative *NANO 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 (500 kHz)	High-Frequency (840 kHz)	XD Low-Frequency (375 kHz)	Mid-Frequency (500 kHz)	High-Frequency (840 kHz)
Adaptive Frequency Band	420 kHz - 550 kHz	700 kHz - 920 kHz	320 kHz - 400 kHz	420 kHz - 550 kHz	700 kHz - 920 kHz
Number of Beams (Density)	Up to 256 x 256				
Number of Values per Beam	2,500 (Dependent on Features Purchased)				
Maximum Range*	60 m (197 ft)	50 m (164 ft)	120 m (394 ft)	60 m (197 ft)	50 m (164 ft)
Minimum Range*	0.5 m (1.64 ft)				
Range Resolution	2 cm (0.7")				
Update Rate (Ping Rate)	Up to 50 Hz				
Imaging Field of View (User Selectable)	54°x54° – 46°x46°	33°x33° – 23°x23°	90°x45° – 45°x22°	54°x54° – 46°x46°	33°x33° – 23°x23°
Beam Density (Spacing)	0.21° x 0.21° – 0.18° x 0.18°	0.13° x 0.13° – 0.09° x 0.09°	0.35° x 0.18° – 0.18° x 0.09°	0.21° x 0.21° – 0.18° x 0.18°	0.13° x 0.13° – 0.09° x 0.09°
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)	375mm x 290mm x 245mm (14.8" x 11.4" x 9.6")				
Weight in Air	8.2 kg (18.1 lbs)		8.8 kg (19.4 lbs)		
Power Consumption	2 - 5 A at 24 V DC				
Depth Rating	Rated up to 50 m (164 ft)				

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