

M900-2250-130-Mk2

High Resolution Dual-Frequency Sonar



The dual-frequency 900 kHz and 2250 kHz provide the most versatility of any 2D imaging sonar. The 900 kHz offers high-resolution long range navigation, object detection, and obstacle avoidance, while the 2250 kHz provides ultra-high resolution at close range. ROV navigation, hull inspections, structure inspections, diver monitoring, and search and recovery are a few applications that benefit from the dual-frequency's imaging capabilities.

The M900/2250-Mk2 has:

- Unique dual frequency combination
- Wide 130° field of view
- Leading data quality
- Compact and low power
- Capture sonar video and position data

All M Series sonar operate while in motion or from a stationary position delivering real-time imagery and data.

Applications:

- ROV navigation
- Object detection
- Target tracking
- Obstacle avoidance
- Operations monitoring
- Equipment/tool placement
- Search and recovery
- Area survey
- Close-range high-resolution object identification

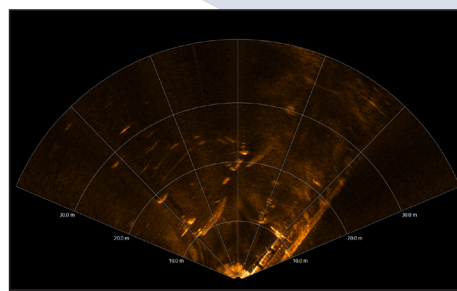
Developed with input from industry leading customers with decades of experience in some of the most demanding applications. For those who demand uncompromising sonar data quality in a compact and easy to interface package.

System standard configurations:

- Selectable field-of-view
- 1000m depth rating
- 6000m depth rating (titanium housing)

Optional extras

- Burton connector
- Impulse MKS connector
- VDSL option



900kHz data collected with M900/2250 130° field-of-view. Shallow water harbor area with small boat and harbor wall.

PRODUCT FEATURES & BENEFITS

Features:

- Real-time video like imagery
- Motion immune imagery
- Record raw acoustic data for enhanced controls during playback
- Point to point measurements
- Automatic and manual acoustic source level control

Benefits:

- Open nose cone for superior data quality
- Enhanced long range performance
- Robust design including splash-mate connector
- Optimized for ROV use when high situational awareness is required
- Wide 130° field of view for both 900kHz long range and 2250kHz high resolution high situational awareness



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SYSTEM SPECIFICATIONS

SONAR

Operating Frequency	900 kHz	2250kHz
Field-of View	130°	130°
Max Range	100m (328ft)	10m (33ft)
Optimum Range	2-60m (6.6-197ft)	0.5-7m (1.6-23ft)
Beam Width (horizontal)	1°	1°
Beam Width (vertical)	12°	20°
Number of Beams (Maximum)	768	768
Beam Spacing	0.18°	0.18°
Range Resolution	1.3cm (0.54 inch)	0.6cm (0.25 inch)
Update Rate*	Up to 25Hz	Up to 25Hz

INTERFACE

Supply Voltage	12-48 VDC
Max Power Consumption**	2250 kHz - 25.8 W
	900 kHz - 20 W
Connectivity	Ethernet
Connector	Impulse MKS(W) Splash-mate (standard) Impulse MKS, Burton (optional)

MECHANICAL

	Depth rating	L	W	Can diameter Ø	Weight in air	Weight in water
BlueView M900-2250 S Mk2***	1000m	206.4mm (8.12 inch)	127mm (5 inch)	Ø101.6mm (4 inch)	2.5 kg (5.5 lb).	1 kg (2.2 lb).
BlueView M900-2250 D6-Mk2***	6000m	261.3mm (10.29 inch)	Ø127 (5inch)	Ø127mm (5 inch)	7.9 kg (17.4 lb) ± 0.5 kg (1.1 lb).	5.1 kg (11.2 lb) ± 0.5 kg (1.1 lb).

* Range-dependent

** Non-VDSL unit at 24 VDC

*** Length does not include connector length, weights and dimensions for standard (non-VDSL) version only.

**** All frequencies and beam widths are nominal values



BlueView M900-2250 D6-Mk2



BlueView M-Series Accessory Kit (example)

ACCESSORY KIT SCOPE OF SUPPLY

- Shipping case
- Ethernet cable 2.1m (7ft)
- Power Over Ethernet (PoE) box
- Cables whip 1.2m (4ft)
- Sonar to Surface cable 8m (25ft)
- Power cord (NEMA and EU)
- Manuals on USB disk

*For non-VDSL products

For relevant tolerances for dimensions above see detailed outline drawing, available on request.



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