



Oculus Multibeam Imaging Sonars

**Providing clear real-time
imaging in poor visibility
or over long range**



Redefining multibeam imaging sonars.
Oculus, a range of single and dual-frequency
sonar systems with unparalleled image
quality in a compact, rugged form factor.
Available in 500m, 1000m and 4000m depth
ratings.

oculus

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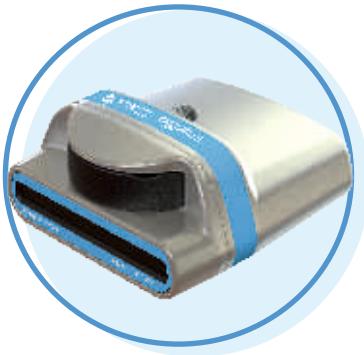


Systems



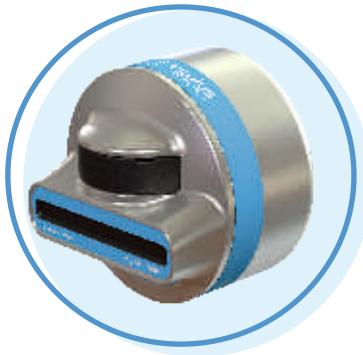
M-Series

The benchmark in multibeam imaging sonars. Providing exceptional image quality and depth rated to **500m**.



MT-Series

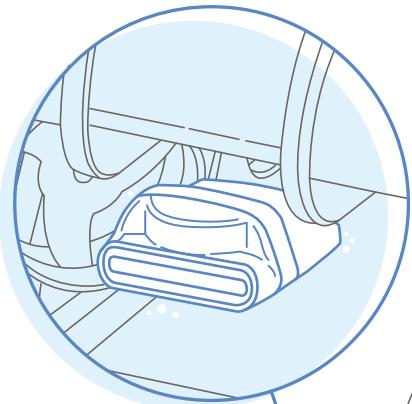
All the benefits of the Oculus M-Series with the advantage of a titanium housing to give a depth rating of **1000m**.



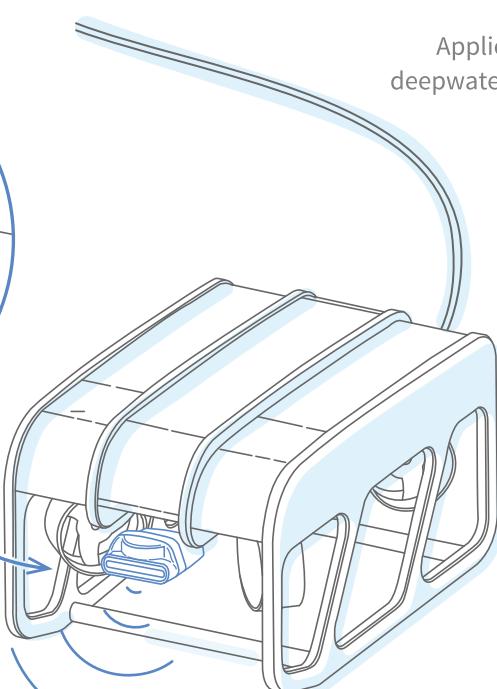
MD-Series

The **4000m** depth rated titanium housing allows the Oculus MD-Series to withstand the pressures of deep-sea working.

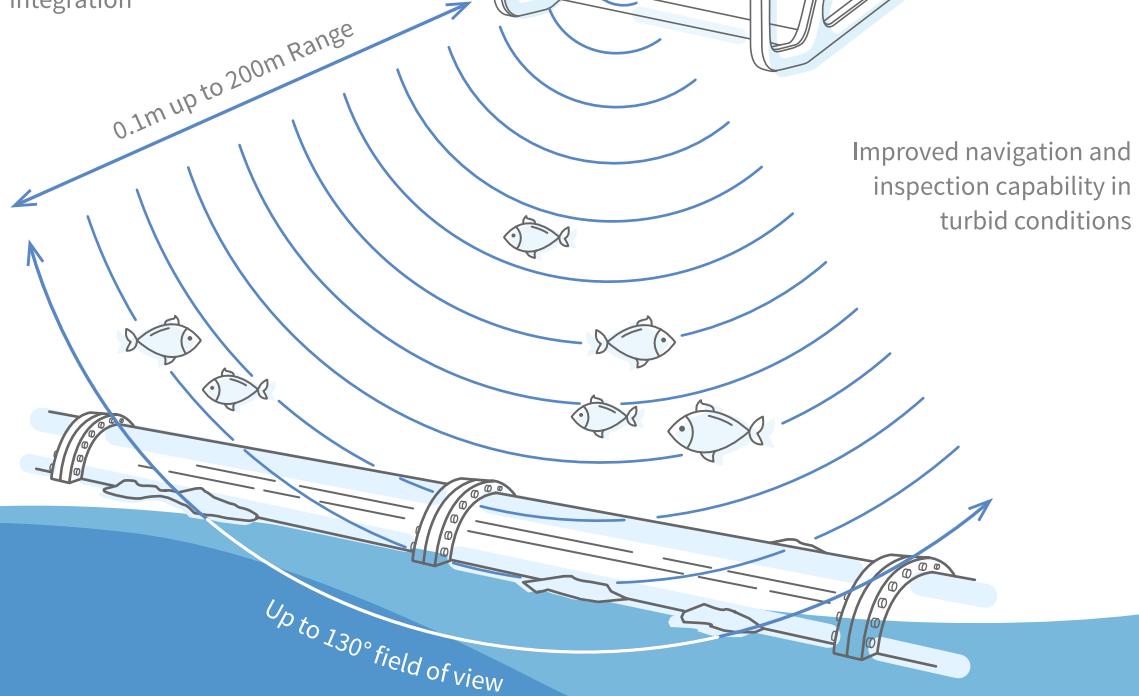
M-Series



Compact and robust design for easy integration



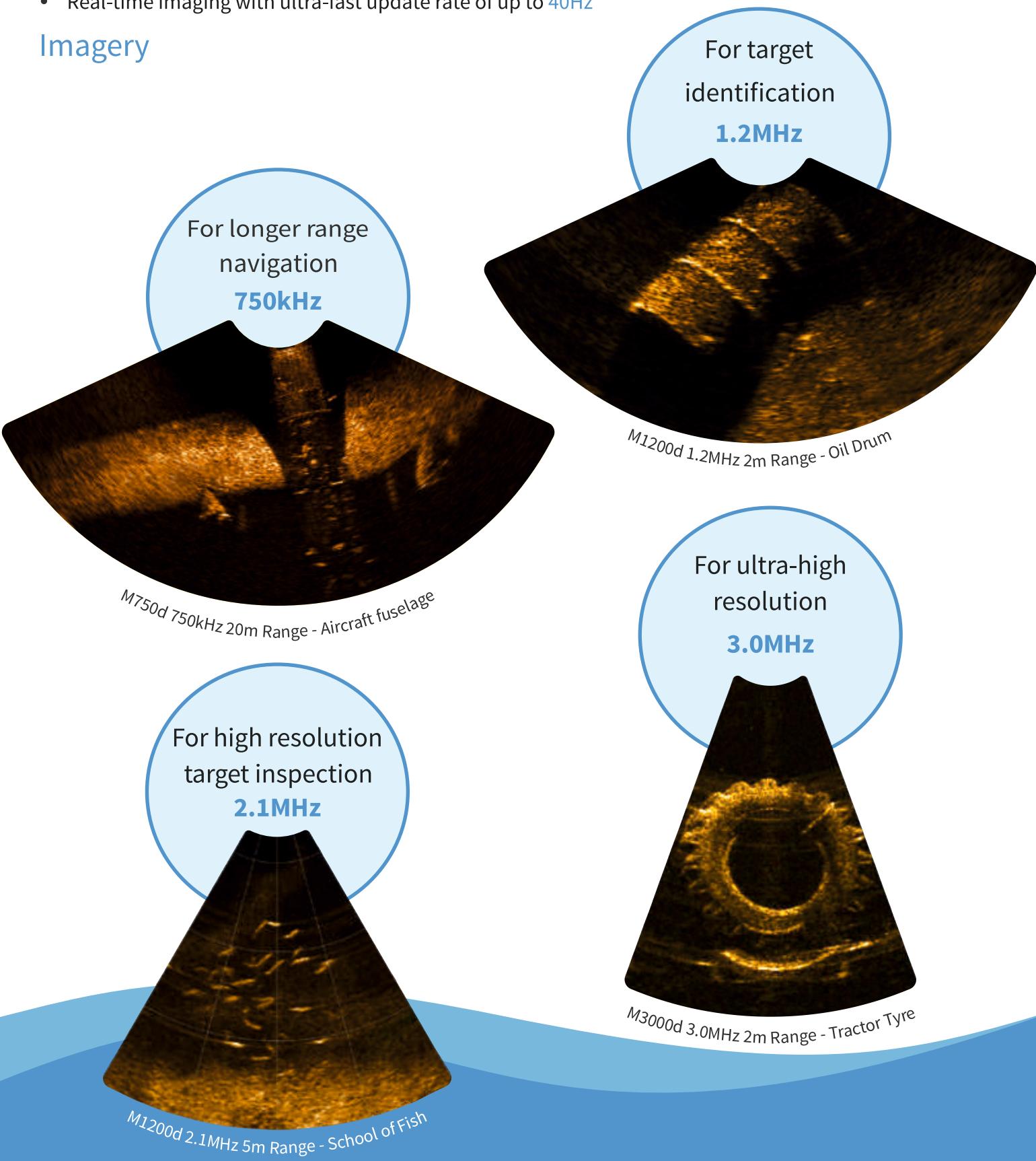
Applicable for shallow, or deepwater campaigns: 500m, 1000m or 4000m



Features

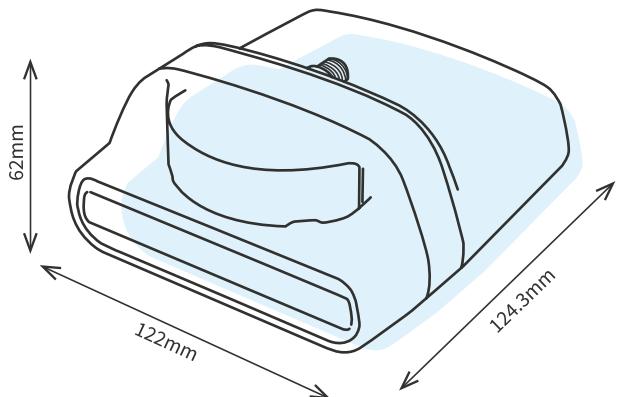
- 375kHz to 3.0MHz, single and dual frequency systems suitable for navigation, situational awareness and inspection work
- Superior wide-angle field of view, up to 130° horizontal / 20° vertical
- Extensive range capability, 0.1m to 200m
- Exceptional image quality, angular resolution down to 0.25°
- Outstanding image definition, range resolution down to 2mm
- Simple and intuitive operator software
- Real-time imaging with ultra-fast update rate of up to 40Hz

Imagery





M & MT-Series



Specification

Mechanical

	M-Series	MT-Series	MD-Series
Dimensions	124mm (L) x 122mm (W) x 62mm (H)		102mm (L) Excluding Connector x ø125mm
Construction	Anodised Aluminium	Titanium	
Weight	0.98kg (Air) 0.36kg (Water)	1.35kg (Air) 0.73kg (Water)	2.5kg (Air) 1.45kg (Water)
Depth Rating	500m	1000m	4000m
Temp. Range (Operating)	-5°C to +35°C		
Temp. Range (Storage)	-20°C to +50°C		

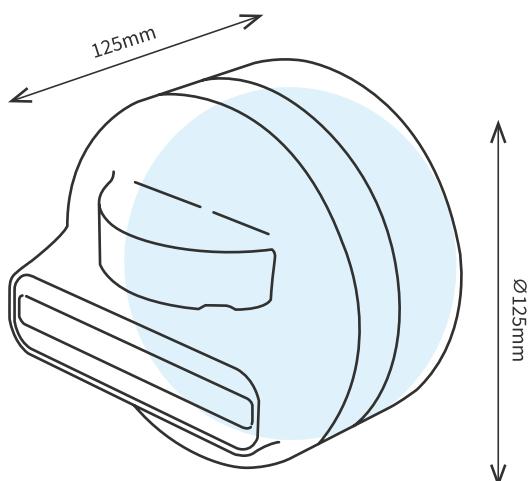
Performance

	M370s MT370s MD370s	M750d MT750d MD750d	M1200d MT1200d MD1200d	M3000d MT3000d MD3000d
Operating Frequency	375kHz	750kHz / 1.2MHz	1.2MHz / 2.1MHz	1.2MHz / 3.0MHz
Range (Max)	200m	120m / 40m	40m / 10m	30m / 5m
Range (Min)	0.2m	0.1m		
Range Resolution*	8mm	4mm / 2.5mm	2.5mm / 2.5mm	2.5mm / 2mm
Update Rate (Max)*	40Hz			
Horizontal Aperture	130°	130° / 130°	130° / 60°	130° / 40°
Vertical Aperture	20°	20° / 20°	20° / 12°	20° / 20°
Number of Beams (Max)	256	512		
Angular Resolution	2°	1° / 0.6°	0.6° / 0.4°	
Beam Separation	0.5°	0.25° / 0.25°	0.25° / 0.16°	0.25° / 0.1°

*Indicates parameter is dependant on range.

Please note that all functions & specifications may be subject to change in line with our policy of continual product development.

MD-Series



Electrical

	M & MT-Series	MD-Series
Connector	Impulse IE55 Series, 6-Way (Schilling SeaNet / Burton Options Available)	Impulse MC Series, 6-Way
Communications	4-Wire 100-BaseT Ethernet, 2-Wire DSL Extender Module	
Supply Voltage	12V to 32V DC Non-Isolated	18V to 32V DC Isolated
Power Consumption	10W to 35W (Model and Range Dependant*)	
Integrated Sensors	Water Pressure and Temperature (for Velocity-of-Sound Calculation)	

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