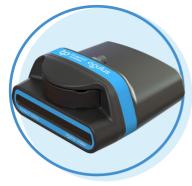




Systems



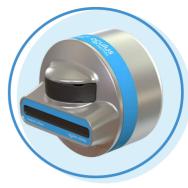
M-Series

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



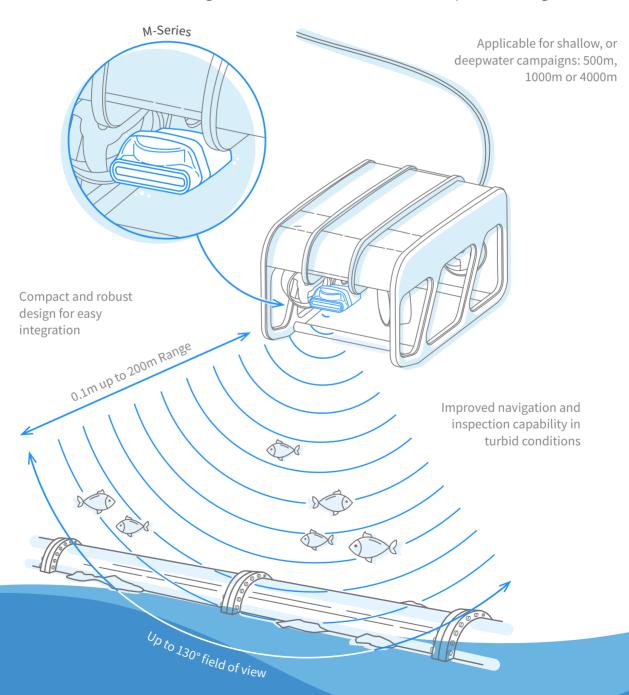
MT-Series

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



MD-Series

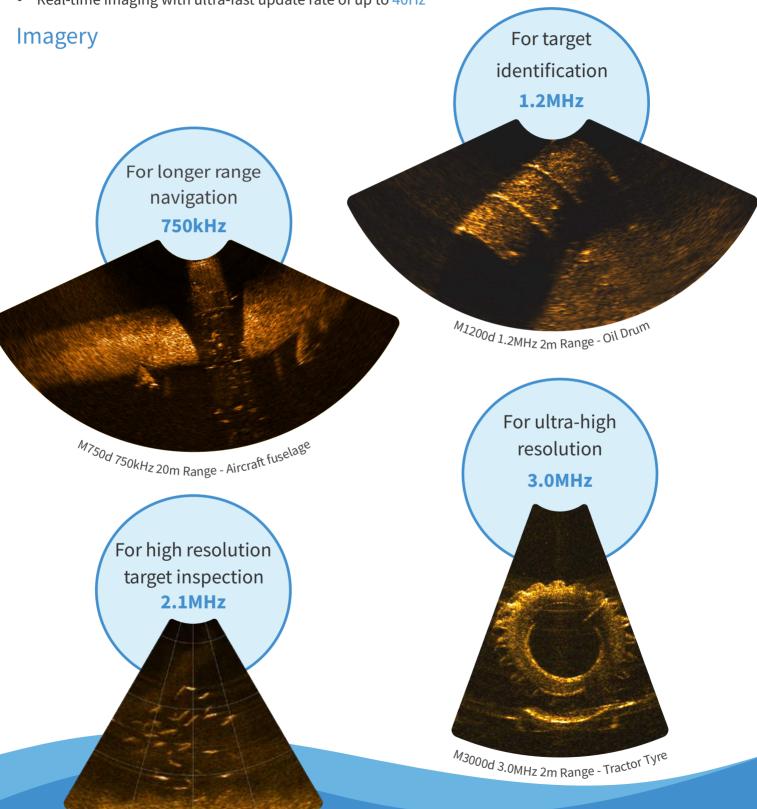
The 4000m depth rated titanium housing allows the Oculus MD-Series to withstand the pressures of deep-sea working.



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

M1200d 2.1MHz 5m Range - School of Fish





Specification

Mechanical

	M-Series	MT-Series	MD-Series
Dimensions	125mm (L) x 122mm (W) x 62mm (H)	125mm (L) x 122mm (W) x 62mm (H)	125mm (L) excluding connector x ø125mm
Construction	Anodised Aliminium	Titanium	Titanium
Weight	980g (Air), 360g (Water)	1350g (Air), 730g (Water)	2.5kg (Air), 1.45kg (Water)
Depth Rating	500m	1000m	4000m
Temp' Range (Operating)	-5°c to +35°c	-5°c to +35°c	-5°c to +35°c
Temp' Range (Storage)	-20°c to +50°c	-20°c o +50°c	-20°c to +50°c

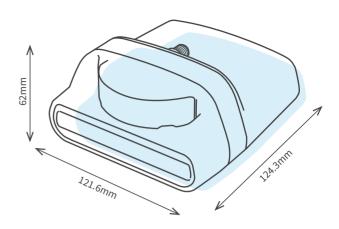
Performance

	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	0.1m	0.1m
Range Resolution*	8mm	4mm / 2.5mm	2.5mm / 2.5mm	2.5mm / 2mm
Update Rate (Max)*	40Hz	40Hz	40Hz	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	512	512
Angular Resolution	2°	1°/0.6°	0.6°/ 0.4°	0.6°/ 0.4°
Beam Separation	0.5°	0.25°/ 0.25°	0.25°/ 0.16°	0.25°/ 0.1°

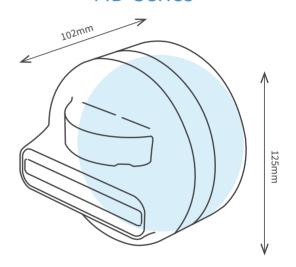
^{*}Indicates parameter is dependent on range.

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

M and MT-Series



MD-Series



Electrical

	M & MT-Series	MD-Series
Connector	Impulse IE55 Series, 6-way	Impulse MC Series, 6-way (Schilling SeaNet / Burton option)
Communications	4-wire 100-BaseT Ethernet, 2-wire DSL extender module	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 dependent*)	10W to 35W (model and range dependent*)
Integrated Sensors	Water pressure and temperature (for Velocity- of-Sound calculation)	Water pressure and temperature (for Velocity- of-Sound calculation)

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