

Oculus M-Series Single & Dual Frequency

The Oculus M series multibeam sonars are a new generation of compact imaging sonar, designed for use across a wide variety of underwater applications.

Their small form factor makes them ideally suited for deployment onto micro sized platforms, while their rugged construction also makes them an excellent choice for larger work-class vehicles and subsea infrastructure.

Oculus M1200d 125mm x 122mm x 62mm 360g in water, 980g in air

M370s

With a 200m range capability, this sonar is a cost effective alternative to traditional mechanically scanned sonars, typically being used for long range navigation and situational awareness.

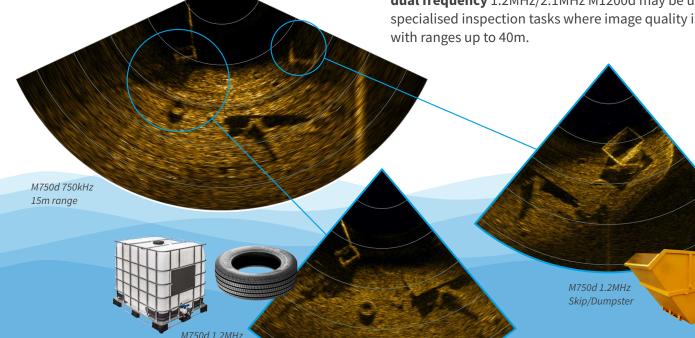
M750d

A general purpose **dual-frequency** 750kHz/1.2MHz sonar offering up to 120 metre range capability for navigation and high resolution imagery for near field target identification.

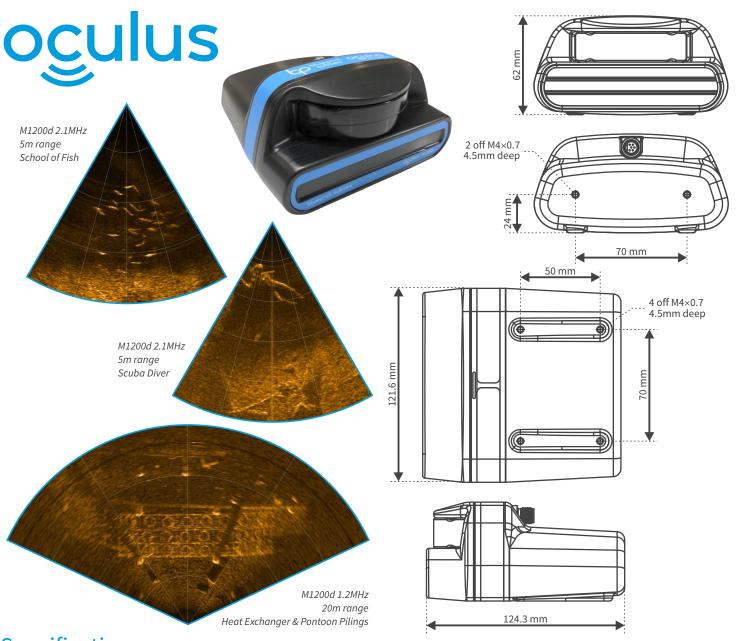
Car Tyre & IBC

M1200d

Offering the highest resolution in the M series range, the dual frequency 1.2MHz/2.1MHz M1200d may be used for specialised inspection tasks where image quality is critical with ranges up to 40m.







Specifications

Mechanical

Dimensions	125mm Long × 122mm Wide × 62mm High		
Construction	Anodised Aluminium		
Weight	980g (air), 360g (water)		
Depth Rating	300m		
Temperature Range	-5°C to +35°C (operating) -20°C to +50°C (storage)		

Electrical

Connector	Impulse IE55 Series, 6-way		
Communications	4-wire 100-BaseT Ethernet, 2-wire DSL extender module (Trigger in/out and RS232 aux options ♦)		
Supply Voltage	18V to 32V isolated DC (12V non-isolated option ♦)		
Power Consumption	10W to 35W (model and range dependent ★)		
Integrated Sensors	Water pressure and temperature (for Velocity-of-Sound calculation)		

Performance	M370s <i>BP01041</i>	M750d <i>BP</i> 01032	M1200d <i>BP01042</i>
Operating Frequency	375kHz	750kHz / 1.2MHz	1.2MHz / 2.1MHz
Range (max)	200m	120m / 40m	30m / 10m
Range (min)	0.2m	0.1m	0.1m
Range Resolution*	8mm	4mm / 2.5mm	2.5mm / 2.5mm
Update Rate (max)★	40Hz	40Hz	40Hz
Horizontal Aperture	130°	130° / 70°	130° / 60°
Vertical Aperture	20°	20° / 12°	20° / 12°
Number of Beams (max)	256	512	512
Angular Resolution	2°	1°/0.6°	0.6° / 0.4°
Beam Separation	0.5°	0.25° / 0.16°	0.25° / 0.16°

- ★ indicates parameter is dependent on range
- consult factory for availability and further details

DA-148-P01443-04

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



