

Mercury Scanning Sonar

CLARITY WITHOUT COMPROMISE

Mercury is a high resolution, miniature sonar and is designed for use on the smallest of ROV's, without compromising accuracy.

It is available either as a compact, all in one unit or as a split head with remote electronics.

Manufactured as standard in a pressure housing for use up to 300m water depths, there are options for operation at 1000m, 3000m and 6000m.

Mercury exhibits outstanding acoustic performance over a wide frequency range in 1kHz steps.

It has excellent long range performance at 600kHz and extremely high resolution at 1.2MHz.

Sonavision, with twenty years experience in designing scanning sonars, was the first commercial user of Composite PZT in scanning sonars.

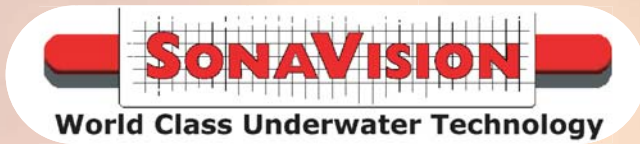
Mercury uses a special wideband 1:3 Piezo Composite Transducer, enclosed in a fluid filled head. The benefits of using composite transducers are enhanced beam control, optimisation of transmit and receive and suppressed side-lobes to reduce false returns. Mercury can be used in 360 degree scan, sector scan and sidescan modes.

Communication is by RS232 or RS485 and Mercury can be used with PC, laptop or Minerva SCU with Sonavision Software. The operating software is available from the web and does not require user licence or key.



- ROV navigation
- Target identification
- Mine classification
- Obstacle avoidance
- AUVs
- 1:3 Piezo composite transducer
- Variable frequency 600kHz to 1.2MHz
- PPI, Sidescan, A-Scan, B-Scan display modes
- Compact and robust
- True acoustic zoom
- PC compatible
- AUV compatible

www.sonavision.co.uk



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Technical Specifications

PHYSICAL

Frequency	600kHz to 1.2MHz
Beamwidth at 600kHz	43° vertical by 2° horizontal
Beamwidth at 1.2MHz	21° vertical by 1° horizontal
Depth rating	300m standard, options to 1000m, 3000m and 6000m
Weight (in air)	1.2kg
Weight (in water)	400g
Operating temperature	0°C to 40°C
Storage temperature	-20°C to 50°C
Power requirement	18 to 32VDC, nominal 300mA
Operational range	100m at 600kHz
Sample resolution	7bits
Telemetry format	RS485 or RS232C

ORDERING OPTIONS

PRODUCT NO.	MAX OPERATING DEPTH	STYLE	TELEMETRY FORMAT
2392-300	300m	Compact	RS485 standard/option RS232
2392-1000	1000m	Compact	RS485 standard/option RS232
2392-3000	3000m	Compact	RS485 standard/option RS232
2392-6000	6000m	Compact	RS485 standard/option RS232
2392-SH	3000m	Split Head	RS232 standard/option RS485

OPTIONS	PART NO.
Mating connector	0565-1008
Test lead c/w power supply and RS232 output	2392-1002
RS232 to RS485 convertor	2392-1001
Maintenance kit	2392-12001

Each Mercury is supplied in transit case with standard spares kit.

Due to continual product development, specifications are subject to change. Please contact Sonavision for latest specifications.

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