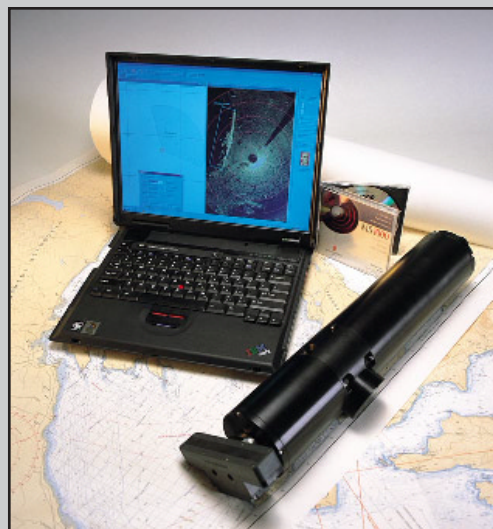


KONGSBERG MESOTECH 3000M HIGH RESOLUTION GEARED SONAR HEAD WITH DIGITAL TELEMETRY



GENERAL DESCRIPTION

This version of the Kongsberg Mesotech 1071-Series Sonar has been specifically designed to produce the highest resolution scanning sonar images possible with 675kHz. Its design is targeted at bottom clearance, body recovery, underwater construction and applications where data clarity supercedes any other requirement.

This sonar head should also be considered in conditions where the in-water temperatures are lower than 4°C, or higher than 20°C. Domed, oil-filled heads may acoustically defocus beyond these temperature ranges. This sonar head incorporates the electronic advantages increased sampling rates, wider receiver bandwidth, increased power output, and a very narrow horizontal beam pattern with the fan transducer.

The telemetry is RS485 and RS232 compatible, and is automatically sensed and configured. The transducer is of a bare-shaft design, but the motor-end is oil compensated to prevent water ingress into the main electronic stack via the transducer shaft.

The sonar head is compatible with the MS1000 and MS900D Surface Processors. To take full advantage of the advanced features and high resolution this head has to be operated with the Kongsberg Mesotech MS1000 processor.

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TECHNICAL SPECIFICATIONS

Operating Frequency:	675 kHz
Beam Width:	0.9° X 30° Fan (nominal)
Range:	0.5 - 100 Metres typical; 150 Metres obtainable
Range Resolution: transmit	≥19 mm (@ 1500m/sec speed of sound, 25 µs pulse)
Sampling Resolution:	≥2.5 mm
Scan Angle:	360° continuous
Mechanical Step Size:	≥0.225°
Scan Speed:	nom 15 sec/360° @ 10 m and 1.8° step size nom 41 sec/360° @ 100m and 1.8° step size
Transmit Pulse Lengths:	25 - 2500 µs
Transmit Power:	OFF, 50 W nom, 500 W nom
Receiver Bandwidth:	100 kHz max
TVG Control:	-20 to +100 dB
Telemetry:	RS 485/RS 232 auto switching asynchronous serial data
Telemetry Rates:	Downlink: 9600 Baud Uplink selectable: 230K, 115K, 57K, 38K, 19K, 9600 bits/sec automatic (to suit cable telemetry)
Power Requirements:	33W, 22 - 60VDC
Temperature Ranges:	-10 to +40° C operating -30 to +40° storage
Operating Depth:	3000 meters
Connector:	Seacon RMG-4-BCL (optional connectors available)
Materials:	Aluminum 6061-T6, 300-Series SS
Dimensions:	Diameter 3.5"/89 mm Length 19.2"/488 mm Transducer width 5.5"/140 mm
Weight:	In air 12.5 lbs/5.7 kg In water 6.0 lbs/2.7 kg



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