

# SYSTEM 5000 MK II B SIDE SCAN SONAR

MULTI-BEAM SONAR FOR SMALL OPEN BOAT AND PORT & HARBOR APPLICATIONS

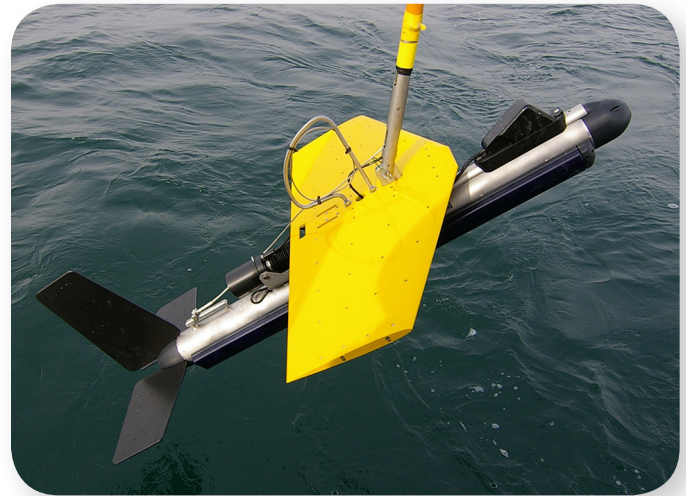
The Klein System 5000 MK II B is a high performance, 5 beam dynamically focused, economical system designed specifically for port and harbor security applications and is also ideally suited for small object detection in open boat operations. Performance of the Klein System 5000 MK II B is comparable to the specifications and performance of the Klein System 5000 technology but at a much lower cost.

The Klein System 5000 MK II B is built with a single hull configuration which reduces the length and weight of the towfish enabling use on smaller boats with various configurations.

The towfish weighs approximately 128 pounds in the air, is 74 inches long and has a diameter of 5 inches. A ballast weight kit is available as an option to increase the weight to adjust for deepertowing depths if required.

While Klein recommends a winch for standard operations, due to the reduced size and weight, the Klein System 5000 MK II B is also a two-man deployable system from smaller vessels using a lightweight tow cable.

The Klein System 5000 MK II B covers 100% of the sea-floor at 125 m range at speeds of 8 knots (with the exception of under the towfish).



## Applications:

- Port and Harbor Security
- Small object detection for hydrographic applications
- Hazard surveys
- Small boat operations



***The Difference Is In The Image***

# SYSTEM 5000 MK II B SIDE SCAN SONAR



## MULTI-BEAM SONAR

### Specifications:

System 5000 MK II B Towfish	
Number of Beams	5 Port / 5 Starboard
Frequency	455 kHz
Beam	Dynamically-focused, 40° Vertical, tilted 20° down
Selectable Pulses (sync to side scan rate)	to 30 PPS
Selectable Pulse Lengths	50 to 200 µsec, operator selectable
Resolution (along-track)	20 cm @ 75 m 30 cm @ 125 m
Resolution (across-track)	Determined by selected pulse length (from 3.75 cm to 15 cm)
Operating Speed Envelope	2-8 knots
Sonar Digitization	12 bit / channel
Maximum Operating Range	125 m (250 m swath)
Array Length	137 cm (54 in)
Body Length	74 in
Body Diameter	5 in
Weight In Air	128 lb (without ballast)
Sensors: Heading, Roll, Pitch, Temperature, Pressure and Altimeter	Standard

Transceiver Processing Unit (TPU)	
Width	19 in rack mount
Height	13.2 cm (5.2 in)
Depth	54.6 cm (21.5 in)
Weight	12.7 kg (28 lb)
Voltage	115/240 V AC 50/60 Hz
Power	120 watts
Navigation Input	NMEA 0183
Data Output	100 Base-TX, Ethernet LAN to PC, SDF Formats
PC Display/Control Unit	Klein ruggedized or customer supplied PC

### Standard Configuration:

- System 5000 MK II B Towfish
- Transceiver Processing Unit (TPU)
- PC with SonarPro® software
- 50 m cable (lightweight)
- Manual (CD)

### Options and Accessories:

- Swath Bathymetry
- Ballast weights (35 lb)
- Cable types and lengths
- Splash-proof transceiver processing unit
- K-Wing II or K-Wing I with adapter kit
- Acoustic responder for positioning

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