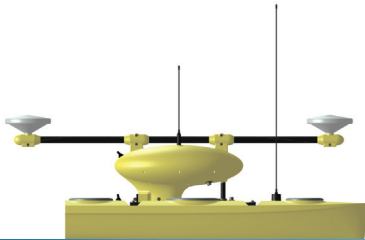


Picotech Ltd

PicoMB131

For IHO Special Order surveys using an external INS



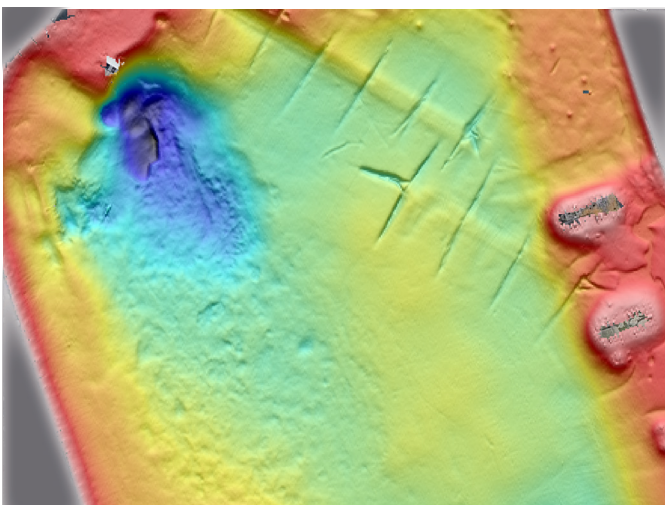
The PicoMB131 multibeam echo sounder facilitates ultra-high resolution surveys on man-portable USVs and small survey vessels.

PicoMB131's small size, low weight and class leading power consumption allow rapid mobilisation, simple launch and recovery and long endurance

PicoMB131 is supported by industry standard acquisition and processing software, BeamworX®, EIVA NaviSuite®, Xylem HYPACK®, Teledyne PDS® and QPS QINSy®.

PRODUCT BENEFITS

- Rugged fully over-molded digital transducers immune to galvanic corrosion
- Unprecedented size and weight for rapid mobilisation on (one) man-portable USVs and small survey vessels
- Class leading power consumption for long endurance on LiPos
- 300-400kHz wide-band 1-3 composite arrays
- Less than 0.4kg in water
- Backscatter (snippets) available as standard



PicoMB131 Specifications

Input voltage	14.8V DC
Power Dissipation (deck unit)	3W
Ingress protection (deck unit)	IP54
Transducer cable length	3m
Temperature (operational/ storage)	Deck Unit: -5°C to 50°C / -10°C to 60°C

	Height [mm]	Width [mm]	Depth [mm]	Weight [kg/air]	Weight [kg/water]
PicoMB131 RX	42	183	30	0.35	0.19
PicoMB131 TX	42	54	199	0.49	0.18
Deck Unit	64	86	129	0.69	N/A

PicoMB131 performance

Across-track receiver beam width ²	1.4°
Along-track beam width ³	1.4°
Number of beams	256
Swath coverage (up to)	130°
Min depth	0.6m
Max depth ⁴	170m
Ping rate (range dependent)	Up to 25Hz
Pulse length (FM)	500µs - 5ms
Range resolution	30mm
Depth rating (transducers)	10m

PicoMB131 Scope of Supply

- RX array on 3m cable
- TX array on 3m cable
- Deck unit
- 6m umbilical cable
- 24 month warranty

Optional Extra Features

- Hydrodynamic fairing



¹ Water cooling not required

² 380kHz centre frequency

³ 380kHz centre frequency

⁴ 90° swath