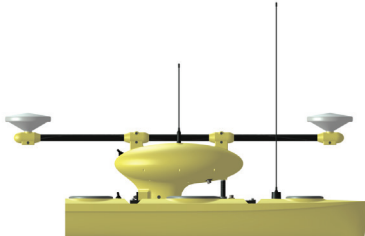


Picotech Ltd

PicoMB132

For Educators and Universities teaching hydrographic surveys, and for lower resolution commercial surveys



The PicoMB132 multibeam echosounder facilitates high resolution surveys on man-portable USVs and small survey vessels.

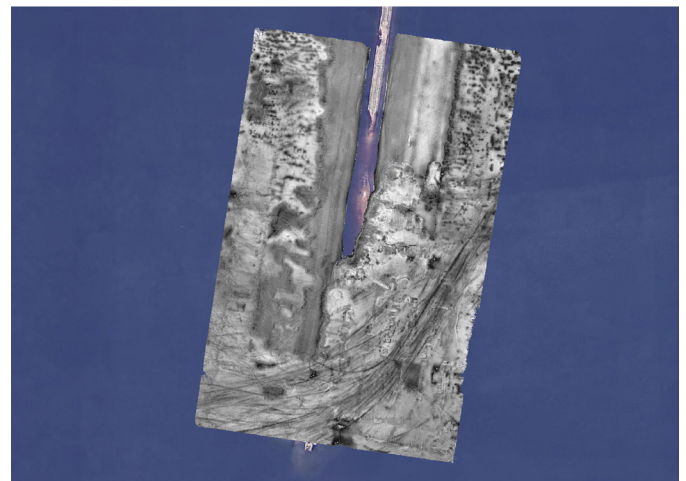
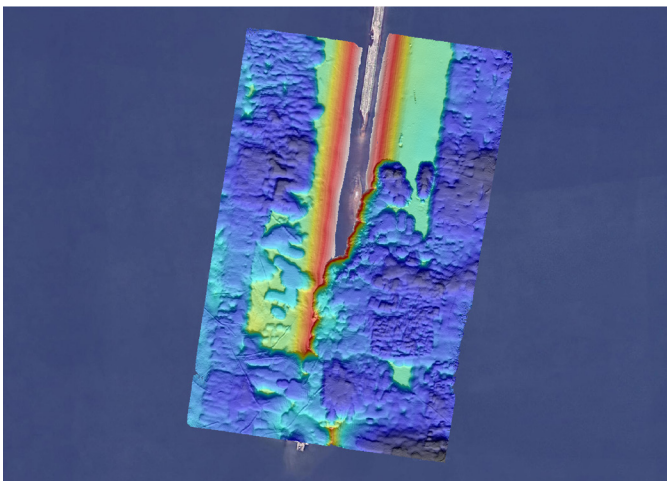
PicoMB132's small size, low weight and class leading power consumption allow rapid mobilisation, simple launch and recovery and long endurance.

PicoMB132 comes with an industry-leading, low-cost Inertial Navigation System fully integrated within its deck unit, speeding and simplifying mobilisation and reducing costs.

PicoMB132 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



PicoMB132 Specifications

Input voltage	14.8V DC
Power Dissipation (deck unit)	7W
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]
PicoMB132 RX	42	183	30	0.35	0.19
PicoMB132 TX	42	54	199	0.49	0.18
Deck Unit	64	86	129	0.69	N/A

PicoMB132 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
RTK position accuracy ⁵	Horizontal: 5cm Vertical: 5cm
Heading accuracy	0.09° with 2m antenna baseline
Roll, pitch accuracy	0.1° (INS-Autonomous, INS-SBAS, INS-DGNSS & INS-RTK modes)

PicoMB132 Scope of Supply

- RX array on 3m cable
- TX array on 3m cable
- Deck unit with integral INS
- 2 off GA830 GNSS Antenna
- 6m umbilical cable
- 24 month warranty

¹ Water cooling not required

² 380kHz centre frequency

³ 380kHz centre frequency

⁴ 90° swath

⁵ 1cm horizontal, 2cm vertical RTK option

Optional Extra Features

- 1cm horizontal, 2cm vertical RTK option
- Hydrodynamic fairing

