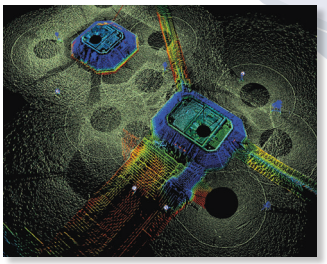
BV5000 MK2

3D mechanical scanning sonar



The BlueView BV5000 MK2 3D mechanical scanning sonar creates high resolution imagery of underwater areas, structures, and objects. With the touch of a button, the sonar creates 3D point clouds of an underwater scene with minimal training required.





This proven, versatile, and lightweight unit is easily installed on subsea vehicles such as ROVs and AUVs, operating down to a maximum depth of 1000m. It can also be deployed landside such as dockside, bridges or on surface vessels when fixed to the optional tripod.

The scanning sonar head and integrated mechanical pan and tilt mechanism generates both sector scans and spherical scan data. The BV5000 MK2's 3D laser-like scanning capabilities and seamless integration with traditional laser scan imagery produce great results even in low and zero visibility conditions.

PRODUCT FEATURES & BENEFITS

- Easy, one-touch scan function
- 3D mosaic imaging without position info
- Easily combined with laser scan imagery
- Compact size fits into tight spaces
- Operates in low and zero visibility conditions
- Standard Ethernet/RS485 interface
- Easy Windows-based software
- Leica Cyclone data compatible
- Sector and spherical scans

Applications:

- 3D site survey
- 3D structure inspection
- Rig decommissioning
- Bridge inspections
- Underwater metrology

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TELEDYNE MARINE
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BV5000 MK2 3D mechanical scanning sonar



TECHNICAL SPECIFICATIONS

Sonar and software	Sector / spherical scan area (°)	45-360
	Sonar field of view (°)	42 x 1
	Update rate (Hz)	Up to 40
	Frequency (MHz)	1.35
	Maximum range	30m (98ft.)
	Optimum range	1-20m (3.2-65ft.)
	Number of beams	256
	Beam width (°)	*1 x 1
	Beam spacing (°)	0.18
	Time resolution	0.015m (0.59in.)
	Data output format	.son, and .xyz files
Mechanical	Size (L x W x H)	26.7cm (10.5”) x 23.4cm (9.2”) x 39.1cm (15.4”)
	Weight in air / water	9.8kg (21.7lbs) / 3.7kg (8.2lbs)
	Depth Rating	1000m (3,280ft.)
	Coms (sonar / pan and tilt)	Ethernet/RS485
	Power consumption (W)	45 max.
	Power requirement (V DC)	20-29

*All beamwidths are nominal values.

STANDARD EQUIPMENT AND AVAILABLE OPTIONS

	Included	Optional
Hardware	MB1350 sonar head	46m (150ft) sonar, pan & tilt cable
	Pan and tilt w/ mounting hardware 16m (50ft) sonar, pan & tilt cable	Surface applications: • Tripod mount system
	2m (6ft 6”) cat 5 ethernet cable	
	2m (6ft 6”) USB cable	Subsea applications: • 1.2m (4ft) sonar whip • 0.6m (2ft) pan and tilt whip
	15A Euro, US & UK power cords	
	Dummy plug	
Software	USB Memory stick - ProScan	QuickStitch
Manuals	BV5000 MK2 User’s Manual, Quick Start Guide	
Training		On-site “getting started” hardware / software (per day)
Warranty	1 Year	Extended warranty (per year)

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Specifications subject to change without notice.
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