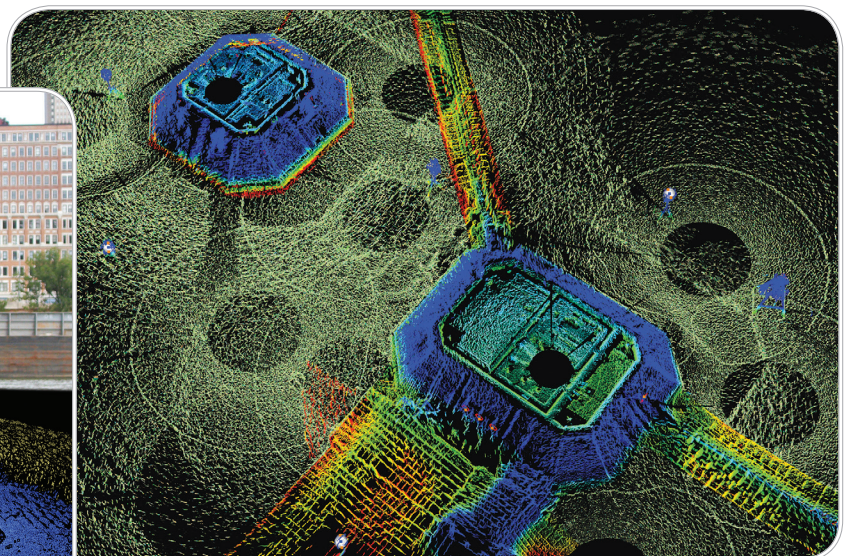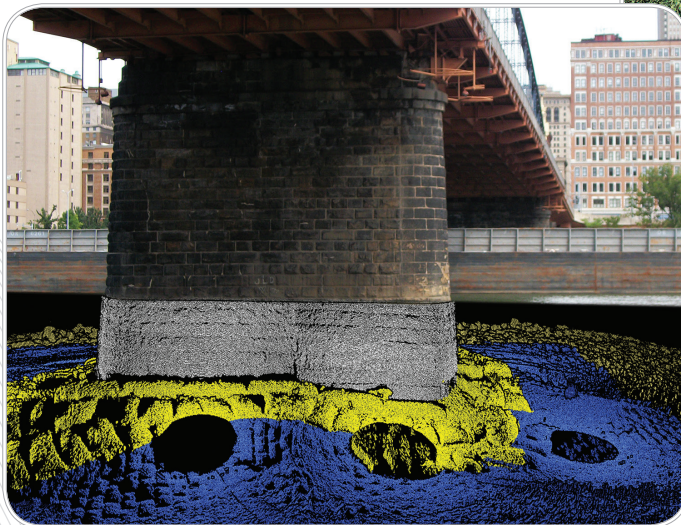## Teledyne BlueView

BV5000

3D Mechanical Scanning Sonar

BlueView's BV5000-1350 3D mechanical scanning sonar create highresolution imagery of underwater areas, structures, and objects. With the touch of a button, these new 3D mechanical scanning sonar create 3D point clouds of an underwater scene with minimal training required. The compact, lightweight units are easily deployed on a tripod or an ROV. The scanning sonar head and integrated mechanical pan and tilt mechanism generate both sector scans and spherical scan data. For the first time, get 3D laser-like scanning capabilities underwater, even in low and zero visibility conditions and seamless integration with traditional laser scan imagery.

PRODUCT FEATURES AND APPLICATIONS

FEATURES:

- 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

TELEDYNE BlueView
Everywhere**you**look™

A Teledyne Marine Company

BV5000
3D Scanning Sonar

TECHNICAL SPECIFICATIONS

Model		BV5000-1350
Sonar & Software	Sector/Spherical Scan Area (º)	45 - 360
	Sonar Field of View (º)	42 x 1
	Update Rate (Hz)	Up to 40
	Frequency (MHz)	1.35
	Maximum Range	30 m (98 ft.)
	Optimum Range	1 - 20 m (3.2 - 65 ft.)
	Number of Beams	256
	Beam Width (º)	1 x 1
	Beam Spacing (º)	0.18
	Time Resolution	0.015 m (0.59 in.)
	Data Output Format	.son, and .xyz files
Mechanical	Size (L x W x H in inches)	10.5 x 9.2 x 15.4
	Weight in Air/Water (lbs.)	21.7/8.2
	Depth Rating	1000 m (3.280 ft.) / 4,000 m (13,123 ft.)
	Coms (Sonar/Pan & Tilt)	Ethernet/RS485
	Power Consumption (W)	45 max.
	Power Requirement (V DC)	20 - 29

STANDARD EQUIPMENT AND AVAILABLE OPTIONS

	Included	Optional
Hardware	MB1350 Sonar Pan & Tilt w/ mounting hardware Sonar, Pan & Tilt junction box Shipping case Accessory kit*	25 ft. Sonar, Pan & Tilt Cable (1 included w/ BV5000 Accessory Kit) 25ft or 150ft ft. Sonar, Pan & Tilt Cable Assembly (needed for tripod and fixed mount systems) 4 ft Sonar whip, 2 ft pan and tilt whip kit w/ Wiring Diagram (needed for ROV mount systems)
Software	RS485 to USB drivers ProScan 1.3 (or current)	QuickStitch
Manuals	BV5000 User Handbook	Quick Start Guide
Training		On-Site "Getting Started" hardware/Software (per day)
Warranty	1 Year	Extended Warranty (per year)

* Accessory kit includes: Retract-A-Bit Hex Driver; 7 ft. Cat 5 Ethernet Cable; 25 ft. Sonar/Pan & Tilt Cable; 2 m USB Cable; 15A US Power Cord; RS485 to USB driver CD; ProScan 1.3 (or current).

**All beamwidths are nominal values.

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