Miniature Multibeam Imaging Sonar

At 450 kHz, the P450E makes for the perfect general purpose underwater imaging tool. With its medium-to-long range imaging capabilities, the P450E is ideal for real-time underwater navigation and wide-area bottom searches in even the murkiest conditions. Once a target has been detected, use the P450E to quickly navigate to it for close-in inspection. The P450E is available as a stand-alone sensor module, or as an integrated component on a number of commercially available ROVs, diver hand-held units, and BlueView’s BV-3000 vessel mounted system.

**APPLICATIONS**

- Underwater Security
- Civil and Pipeline Inspection
- Search and Recovery
- Underwater Navigation
- Dive Operation Monitoring

**BENEFITS**

- High-definition imagery
- Not affected by motion (0-7 Knots)
- Compact / low power
- Cost effective
- Designed for integration

**FEATURES**

- Standard Ethernet interface
- Plug-and-play sonar heads
- Easy-to-use Windows Software
- Software Development Kit

**WORKS FROM BOTH MOVING AND STATIONARY PLATFORMS**

- Patrol Boats
- Micro ROVs
- Inspection ROVs
- Diver Hand-Held Systems
- Tripods
- AUVs

Custom Engineered-to-Order solutions also available. Contact BlueView for more details.

**Specifications**

**SONAR**

- Field of View: 45° x 15°
- Max Range: 450 ft
- Beam Width: 1° x 15°
- Number of Beams: 256
- Beam Spacing: 0.18°
- Range Resolution: 2 in
- Update Rate: Up to 10 Hz
- Frequency: 450 kHz

**INTERFACE**

- Coms: Ethernet
- Voltage: 12-48VDC
- Power: 10 Watts

**MECHANICAL**

- Weight in Air: 5.7 lb
- Weight in Water: 1.4 lb
- Depth Rating: 1000 ft
- Size: 9.6 in x 6.9 in x 4.0 in

Visit www.blueviewtech.com to view our collection of streaming sonar movies
BlueView’s series of Miniature Multibeam Imaging Sonar use revolutionary technology to provide streaming high-resolution 2D images from both stationary and moving platforms.

**Civil and Pipeline Inspection**

BlueView's imaging sonar can significantly improve efficiency on most underwater inspection projects. The sonar image above shows a section of exposed oil pipeline taken from a moving ROV in the Gulf of Mexico.

**Diver Detection and Tracking**

In this image, a diver and his acoustic shadow are clearly visible as he swims in front of the sonar. Once detected, the operator can use the sonar to track and/or intercept the target.

**Search and Recovery**

Use the sonar to quickly locate objects on the bottom and direct their recovery operations. In this sonar image, a box-shaped object is discovered sitting between two bridge footers.

BlueView’s easy-to-use Windows-based ProViewer Software comes standard with all BlueView sonar systems. A powerful Software Development Kit (SDK) is also available upon request.

**PROVIEWER SOFTWARE FEATURES**

- Easy-to-Use
- Extensive data review controls
- Export JPGs and AVI movies
- Length measurement tool
- Auto intensity adjustment
- Website downloadable upgrades

**SDK SOFTWARE FEATURES**

- Low level control of sonar
- File I/O controls
- Bitmap and R-Theta outputs
- Helpful example code
- Both Windows and Linux versions available

**SOFTWARE OPTIONS**

**OPTIONAL ETHERNET EXTENDER KIT**

- 3 Watts @ 12-48 VDC
- Depth Rating: 1000 ft
- Size: 6.0 in x 4.0 in OD
- 2000’ Plus over Single Twisted Pair
- 6 Mbps