

Miniature multibeam imaging sonar

P450E-15

Benefits :

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

Applications:

- Civil and pipeline inspection
- Search and Recovery
- Underwater Security
- Underwater Navigation
- Dive Operation Monitoring



Works from both moving and stationary platforms:

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

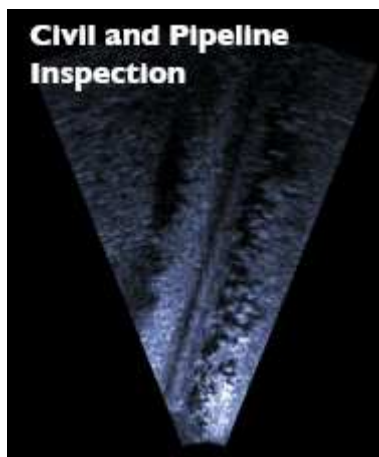
Features:

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

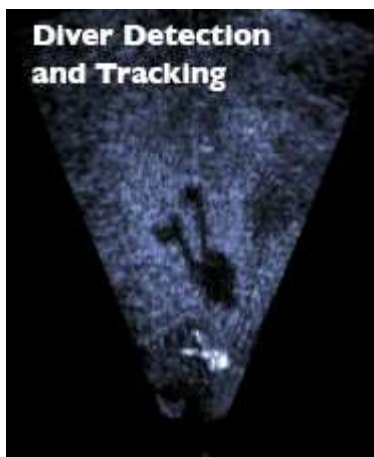
At 450 kHz, the P450E makes for the perfect general purpose underwater imaging tool. With its medium-to-long range imaging capabilities, the P450E is ideal for real-time underwater navigation and wide-area bottom searches in even the murkiest conditions. Once a target has been detected, use the P450E 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.

BlueView's series of Miniature Multibeam Imaging Sonar

Use revolutionary technology to provide streaming high-resolution 2D images from both stationary and moving platforms.



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.



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.



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.

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:	12-48 VDC
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

Software options

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

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

DIAGRAM OF P450E-15

