

# BlueView<sup>®</sup>

TECHNOLOGIES

P450-45

## Miniature Multibeam Imaging Sonar

At 450 kHz, the P450-45 makes for the perfect general purpose underwater imaging tool. With its medium-to-long range imaging capabilities, the P450-45 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 P450-45 to quickly navigate to it for close-in inspection. The P450-45 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 vessel mounted systems.



### APPLICATIONS

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

### BENEFITS

High-definition imagery  
 Not affected by motion  
 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

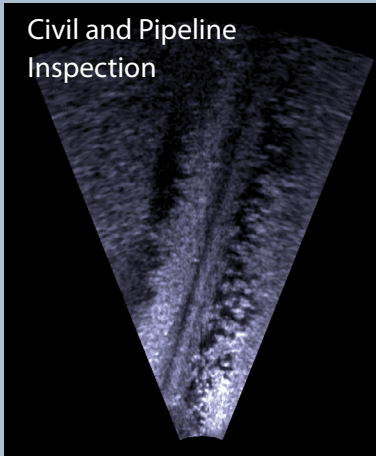
Patrol Boats    Micro ROVs    Inspection ROVs    Diver Hand-Held Systems    Tripods    AUVs

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

### Specifications

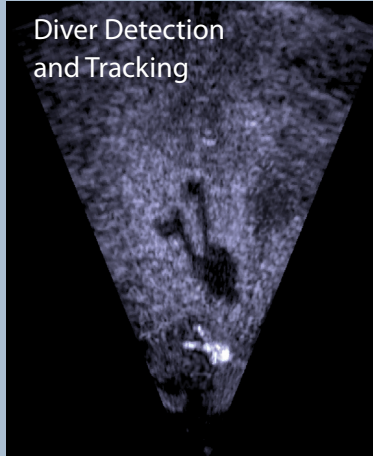
SONAR	INTERFACE	MECHANICAL
Field of View: 45°x 15°	Coms: Ethernet	Weight in Air: 5.7 lb.
Max Range: 820 ft.	Voltage: 12-48 VDC	Weight in Water: 1.4 lb.
Optimal Range: 13 - 574 ft.	Power: 8.5/9.5 Watts	Depth Rating: 1,000 ft.
Beam Width: 1°x 15°		Size: 9.6 in. x 6.9 in. x 4.0 in.
Number of Beams: 256		
Beam Spacing: 0.18°		
Range Resolution: 2 in.		
Update Rate: Up to 12 Hz		

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.

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: 1,000 ft.  
Size: 6.0 in. x 4.0 in. OD  
2,000' Plus over Single Twisted Pair  
6 Mbps

DIAGRAM OF P450E-15

