**P900E-20**

# Miniature Multibeam Imaging Sonar

**At 900 kHz,** the P900E is an ideal sonar for underwater detection and identification operations such as IED detection on ship hulls and other underwater structures. The P900E is specifically designed to increase search rates and effectiveness during underwater operations in low visibility conditions. BlueView worked closely with commercial and US Navy divers to develop the P900E, a compact sonar that offers both mid-range detection and close-range identification capabilities. The P900E is available as a stand-alone sensor module, or as an integrated component on a number of commercially available ROV, diver hand-held, and boat mountable systems. Custom vehicle integration solutions are also available.

## APPLICATIONS

- Hull Inspection - IED Detection
- Search and Recovery
- Underwater Inspection

## BENEFITS

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

## 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 20°
- Max Range: 180 ft
- Beam Width: 1° x 20°
- Number of Beams: 256
- Beam Spacing: 0.18°
- Range Resolution: 1 in
- Update Rate: Up to 10 Hz
- Frequency: 900 kHz

### INTERFACE

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

### MECHANICAL

- Weight in Air: 4.1 lb
- Weight in Water: 1.0 lb
- Depth Rating: 1000 ft
- Size: 7.0 in x 4.0 in OD

# Underwater Vision® by Blueview

BlueView's series of Miniature Multibeam Imaging Sonar use revolutionary technology to provide streaming high-resolution 2D images from both stationary and moving platforms.

## Underwater Inspection
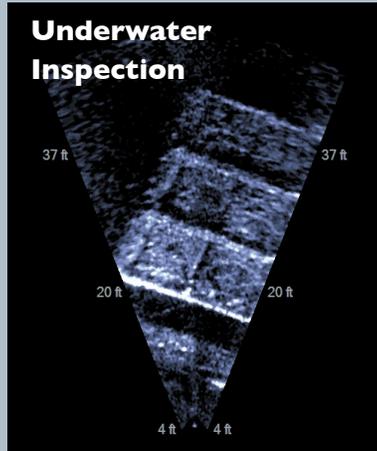
This image shows the bottom side of a floating dock at close range. The dock's structure and features are clearly visible in even the murkiest conditions.

## Search and Recovery
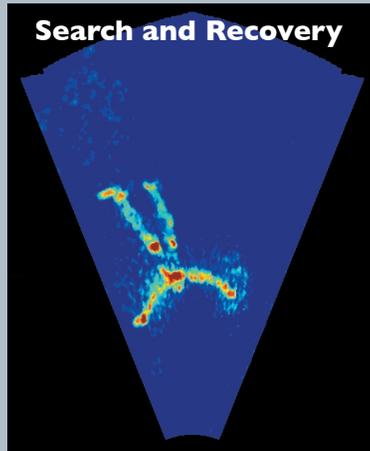
In this sonar image, the body of a swimmer is clearly visible. Once detected, the operator can then use the sonar to monitor and direct recovery operations.

## Bottom Searches
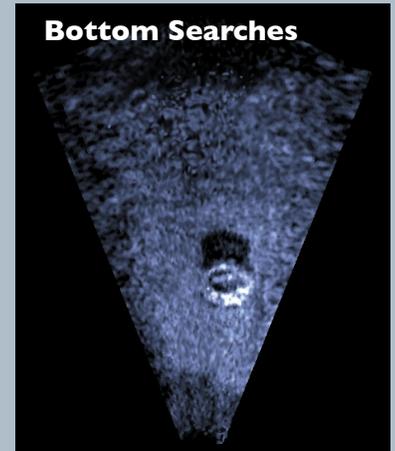
Quickly locate and navigate to objects, even in low visibility conditions. The above sonar image shows a tire located during an ROV-based search operation.

## 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

### 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 P900E-20

Units: Inches

PRESSURE RELEASE PORT

BLUEVIEW TECHNOLOGIES, INC
SEATTLE, WASHINGTON

CONNECTOR, 10 PIN

ZINC ANODE

Ø 4.00

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7.05