

P900-90-D  
P900-130-D

## P Series 2D Deepwater Imaging Sonar

BlueView re-engineered its popular P Series Imaging Sonar platform to create two (2) new models that meet the stringent requirements for deepwater ROV operations. The new P Series Deepwater Systems deliver incredible detailed imagery and accurate point-to-point measurement in a compact, economically priced 2D imaging sonar. Able to operate at depths of 4,000 m (13,123 ft.) the new deepwater systems enhance real-time ROV navigation, obstacle avoidance, operations monitoring, inspections, and object detection even in low and zero visibility conditions. The compact size, light weight, and low power consumption of the new deepwater systems make ROV integration easy. Go to [www.blueview.com/videos](http://www.blueview.com/videos) to see streaming sonar images captured by the P Series Imaging Sonar.



### APPLICATIONS

- ROV Navigation
- Operations Monitoring
- Equipment/Tool Alignment
- Deepwater Inspection
- Search & Recovery

### BENEFITS

- Easy, accurate detection and identification with high-resolution imagery and wide field-of-view
- Unaffected by motion for effective real-time navigation, search and recovery applications
- Quick and easy integration with "Plug & Go" design
- Minimal impact on operating systems with low power consumption

### FEATURES

- Streaming video-like imagery for real-time detection and navigation
- Wide field-of-view (90° & 130°)
- Tough, dependable design for deepwater environments
- Standard Ethernet interface
- "Plug & Go" operation
- Easy-to-use Windows® based software
- Software Development Kit available

### Specifications

	P900-90-D	P900-130-D
<b>Sonar</b>		
Field-of-View (°)	90	130
Maximum Range	100 m (328 ft.)	100 m (328 ft.)
Optimal Range	2 - 60 m (6 ft. - 196 ft.)	2 - 60 m (6 ft. - 196 ft.)
Beam Width (°)	1 x 20	1 x 20
Number of Beams	512	768
Beam Spacing (°)	0.18	0.18
Range Resolution (in.)	1.0	1.0
Update rate (Hz)	Up to 15	Up to 15
Operating Frequency	900 kHz	900 kHz
<b>Mechanical</b>		
Weight in Air (lbs.)	9.6	9.6
Weight in Water (lbs.)	4.4	4.4
Depth Rating	4,000 m (13,123 ft.)	4,000 m (13,123 ft.)
Size (Maximum Dims)	31.5 cm (12.4") L x 12.7 cm (5") W	31.5 cm (12.4") L x 12.7 cm (5") W
Connector Options*	Burton, Schilling SeaNet*	Burton, Schilling SeaNet*
Housing Material	Aluminum	Aluminum

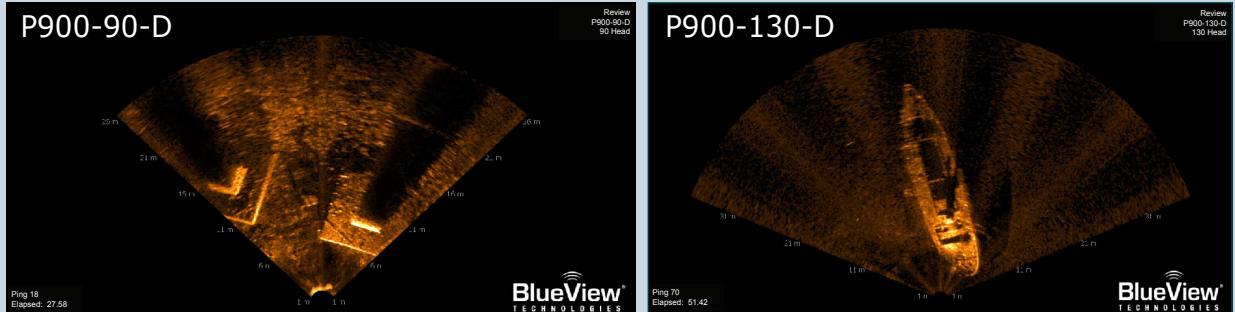
\*Call for additional connector options

## Inclusions

Both the P900-90-D and P900-130-D include BlueView's ProViewer™ software, carrying case and Accessory Kit\*  
\*Accessory Kit for Burton connector model includes – 25 ft. sonar to PC cable, 4 ft. whip cable, 7 ft. Ethernet cable, power of Ethernet box, user manual, quick start guide, and software CD. Accessory Kit for Schilling SeaNet connector model includes – SeaNet Ethernet adapter, 7 ft. Ethernet cable, power over Ethernet box, user manual, quick start guide, and software CD.

## Real-Time Streaming Video Imagery

BlueView's P Series 2D Deepwater Imaging Sonar use revolutionary technology to provide real-time streaming high-resolution imagery from moving or stationary platforms, making your underwater vision easy, even in low and zero visibility conditions.



Quickly detect and inspect targets, even in low and zero visibility conditions. These images show a bridge footing structure and a submerged vessel captured with the P Series 2D Imaging Sonar from an ROV.

## Software

The P900-90-D and P900-130-D sonar are delivered with BlueView Technologies ProViewer™ software that can be installed on PCs with a Windows® operating system enabling immediate out-of-the-box operation.

### ProViewer™ Software Features

- **Simple and Intuitive Interface** - clean, well designed graphical user interface allows data collection right out-of-the-box. Recorded files are just as accessible as live data, allowing the same range of measurement and data export.
- **On-The-Fly Measurements** - make real-time measurements of objects, and determine range and bearing while the system is in operation and during post analysis of stored data for fast, easy surveys and to aid navigation.
- **Video Synchronization** - Easily connect a visible-light camera feed into ProViewer™ to record time synchronized sonar and video images, and to simultaneously view sonar and video images on-screen in real-time to enhance underwater viewing capabilities.
- **Georeferencing** - Accepts industry standard NMEA input for GPS position, heading and depth from common GPS devices, compasses and depth sensors. Displays the information on screen and saves to file with sonar data for later display and analysis.
- **Movie Export** - Quick, simple data review controls enable easy export of streaming sonar video-like footage to enhance reports, presentations, and e-mail messages.

## Optional Software Development Kit (SDK)

BlueView Technologies makes integration into complex and/or unique underwater inspection, detection, identification, and survey platforms easy with its advanced Software Development Kit (SDK). Use BlueView Technologies' SDK to enable real-time vehicle control, obstacle avoidance, homing, and dynamic positioning. The kit is a comprehensive library of C and C++ routines and functions that enable:

- Access to live or stored sonar data files
- Data mapping to create 2D color images
- Control of ping rate
- Setting of minimum and maximum data collection ranges
- Storage and retrieval of sonar and navigation data

### P900-90-D & P900-130-D Diagram

All dimensions in inches

