P900 Series
2D Imaging Sonar

A complete family of high-performance imaging sonar systems engineered for multi-tasking applications and flexible deployment options. These lightweight sonar systems offer real-time, high resolution sonar imagery for object identification, navigation, monitoring, and inspection tasks in a compact design. Choose from five (5) models including two (2) deepwater systems with a maximum detection range of 100 m (328 ft.) and 3 field-of-view options.

ProViewer® Software
Delivered with each P900 Series sonar enabling immediate out-of-the-box operation. ProViewer can be installed on to any PC with a Windows® based operating system, no licensing fees required. Features:
• Intuitive, easy-to-use interface
• Crisp, detailed real-time imagery
• On the fly point-to-point measurements
• Video synchronization
• Georeferencing
• Movie exports

Real-Time Applications
All P900 Series sonar operate while in motion or from a stationary position delivering real-time imagery and data.
• ROV real-time navigation
• Object detection/identification
• Target tracking
• Obstacle avoidance
• Operations monitoring
• Equipment/tool placement
• Area/structure inspection
• Search & recovery

Software Development Kit (SDK)
Sold separately the BlueView SDK enables sonar integration into complex platforms and/or customized systems. The SDK enables control of the sonar and provides access to the raw data files to control sonar operation and enable data flow-through. Features:
• Single .zip file
• Windows® and Linux versions available
• C/C++ libraries included
• Documentation to review architecture and logic
• Reference manual and step-by-step guide
• Example files
• No licensing fees

## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>P900-45</th>
<th>P900-90</th>
<th>P900-130</th>
<th>P900-90-D</th>
<th>P900-130-D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sonar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>900 kHz</td>
<td>900 kHz</td>
<td>900 kHz</td>
<td>900 kHz</td>
<td>900 kHz</td>
</tr>
<tr>
<td>Update Rate</td>
<td>Up to 15 Hz</td>
<td>Up to 15 Hz</td>
<td>Up to 15 Hz</td>
<td>Up to 15 Hz</td>
<td>Up to 15 Hz</td>
</tr>
<tr>
<td>Field-of-View</td>
<td>45°</td>
<td>90°</td>
<td>130°</td>
<td>90°</td>
<td>130°</td>
</tr>
<tr>
<td>Max Range</td>
<td>100 m (328 ft.)</td>
<td>100 m (328 ft.)</td>
<td>100 m (328 ft.)</td>
<td>100 m (328 ft.)</td>
<td>100 m (328 ft.)</td>
</tr>
<tr>
<td>Optimum Range</td>
<td>2 - 60 m (6.5 - 197 ft.)</td>
<td>2 - 60 m (6.5 - 197 ft.)</td>
<td>2 - 60 m (6.5 - 197 ft.)</td>
<td>2 - 60 m (6.5 - 197 ft.)</td>
<td>2 - 60 m (6.5 - 197 ft.)</td>
</tr>
<tr>
<td>Beam Width</td>
<td>1° x 20°</td>
<td>1° x 20°</td>
<td>1° x 20°</td>
<td>1° x 20°</td>
<td>1° x 20°</td>
</tr>
<tr>
<td>Number of Beams</td>
<td>256</td>
<td>512</td>
<td>768</td>
<td>512</td>
<td>768</td>
</tr>
<tr>
<td>Beam Spacing</td>
<td>0.18°</td>
<td>0.18°</td>
<td>0.18°</td>
<td>0.18°</td>
<td>0.18°</td>
</tr>
<tr>
<td>Range Resolution</td>
<td>1.0 in.</td>
<td>1.0 in.</td>
<td>1.0 in.</td>
<td>1.0 in.</td>
<td>1.0 in.</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>12 - 48 VDC</td>
<td>12 - 48 VDC</td>
<td>12 - 48 VDC</td>
<td>12 - 48 VDC</td>
<td>12 - 48 VDC</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>9.0 W/9.5 W max.</td>
<td>18 W/22 W max.</td>
<td>19 W/23 W max.</td>
<td>17 W/23 W max.</td>
<td>17 W/23 W max.</td>
</tr>
<tr>
<td>Connectivity</td>
<td>Ethernet/VDSL*</td>
<td>Ethernet/VDSL*</td>
<td>Ethernet/VDSL*</td>
<td>Ethernet</td>
<td>Ethernet</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight in Air</td>
<td>5.3 lbs.</td>
<td>5.7 lbs.</td>
<td>5.7 lbs.</td>
<td>9.6 lbs.</td>
<td>9.6 lbs.</td>
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<tr>
<td>Weight in Water</td>
<td>1.3 lbs.</td>
<td>1.4 lbs.</td>
<td>1.4 lbs.</td>
<td>4.4 lbs.</td>
<td>4.4 lbs.</td>
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<tr>
<td>Depth Rating</td>
<td>1,000 m (3,280 ft.)</td>
<td>1,000 m (3,280 ft.)</td>
<td>1,000 m (3,280 ft.)</td>
<td>4,000 m (13,123 ft.)</td>
<td>4,000 m (13,123 ft.)</td>
</tr>
<tr>
<td>Size L x W (max OD)</td>
<td>11.3 x 5.0 in.</td>
<td>11.3 x 5.0 in.</td>
<td>11.3 x 5.0 in.</td>
<td>12.4 x 5.0 in.</td>
<td>12.4 x 5.0 in.</td>
</tr>
</tbody>
</table>

*VDSL- Sonar with the onboard VDSL option will have increased length and weight specifications, contact BlueView for details.

### Standard Configuration

- **Sonar Head**
- **User Computer**
- **POE Box**
- **Ethernet Cable**
- **110 - 240 VAC**

### Deployment Accessories

- **Manual Pole Mount**
  Enables quick and easy deployment from a surface vessel or platform, and allows manual tilt angle adjustments of the sonar head.

- **BV3100 Portable Boat Mount System**
  Ideal for search and recovery operations, dive monitoring, and underwater inspections with digitally controlled pan and tilt.

- **BV4000 Portable Tripod with Digital Pan & Tilt**
  Lightweight, one-man deployable for stationary positioning of the sonar with digital control of angle and rotation.

### Ordering Information

When requesting a quotation or placing an order use the configuration model below to specify your exact model:

**P900 - 130 - BR - VDSL**

- **Field-of-View**: 45° Nominal, 90° Nominal, 130° Nominal
- **Connector Type**: MKS: Impulse MKS 10 pin, BR: Burton Mini 8 pin, SN: Schilling SealNet
- **Options**: D: 4,000 m depth, VDSL: Embedded Ethernet extenders

Choose your Field-of-View, Connector Type, and Options, then place your request using your configuration model code.