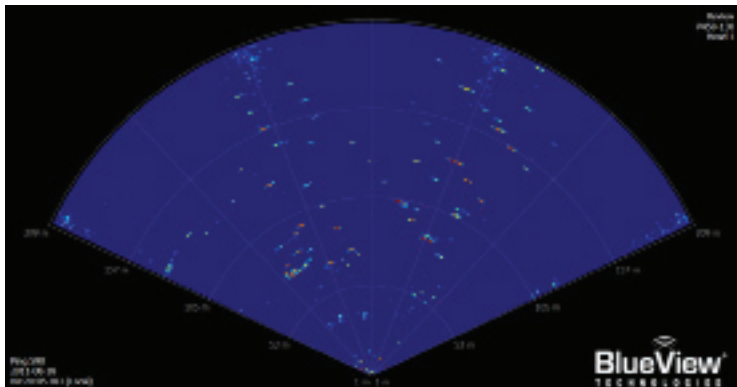
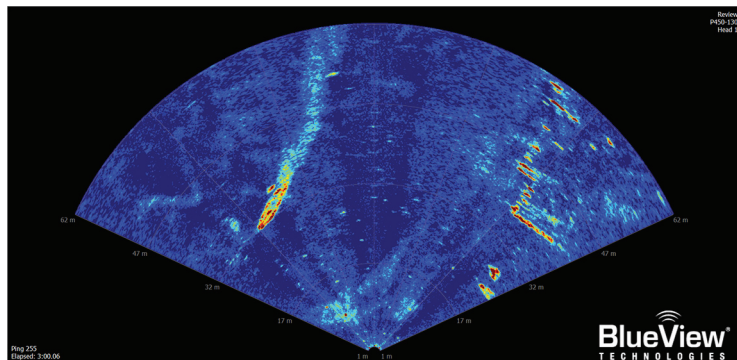


P450 Series 2D Imaging Sonar

Engineered for long range with wide area coverage options, the P450 Series is the best solution to detect, monitor, and track objects and/or targets in real-time at distances up to 250 m (820 ft.) maximum, 4 - 175 m (13 - 574 ft.) optimum. Five (5) models including two (2) deepwater systems that are designed primarily for ROV integration. Use the P450 Series to maximize underwater operation efficiency and minimize the downtime associated with low and zero visibility conditions.



P450-130 screen capture showing detected targets at 200 meters.



A closer view showing the details captured at a range of 62 meters.

ProViewer® Software

Delivered with each P450 Series sonar enabling immediate out-of-the-box operation 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

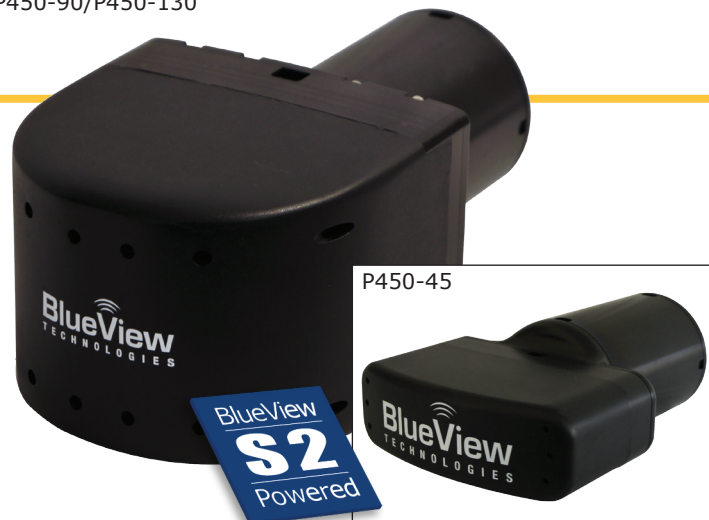
Software Development Kit (SDK)

Sold separately the BlueView SDK enables sonar integration into complex platforms and/or customized systems by enabling control of the sonar with access to 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

Data Sheet

P450-90/P450-130



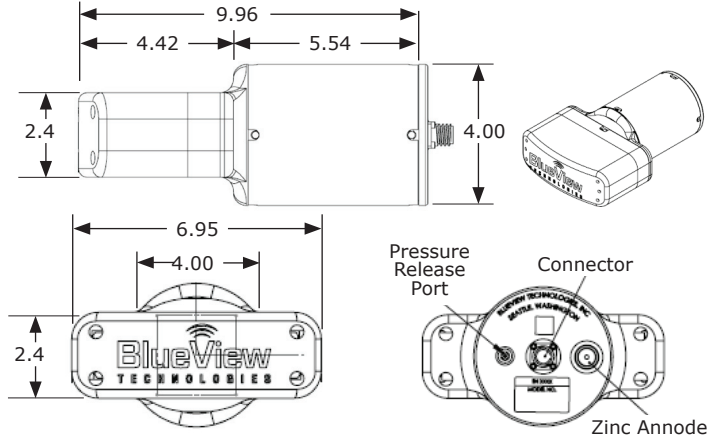
Real-Time Applications

All P450 Series sonar operate while in motion or from a stationary position delivering real-time imagery and data.

- ROV navigation
- Object detection
- Target tracking
- Obstacle avoidance
- Operations monitoring
- Equipment/tool placement
- Search & recovery
- Area survey

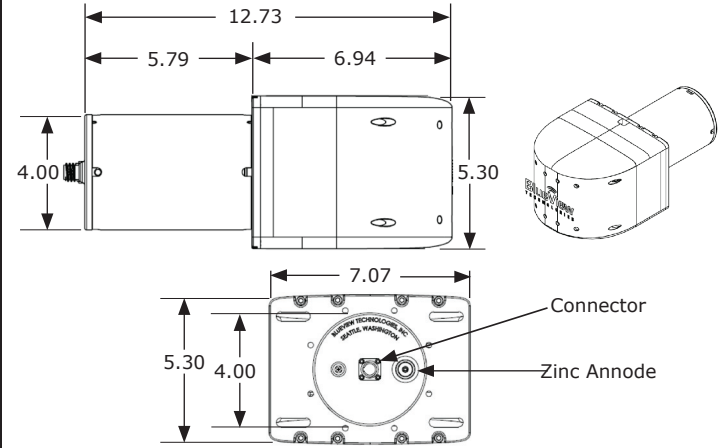
P450-45

All dimensions in inches.



P450-90/P450-130

All dimensions in inches.



Specifications

Model	P450-45	P450-90	P450-130	P450-90-D	P450-130-D
Sonar					
Operating Frequency	450 kHz	450 kHz	450 kHz	450 kHz	450 kHz
Update Rate	Up to 12 Hz	Up to 12 Hz	Up to 12 Hz	Up to 12 Hz	Up to 12 Hz
Field-of-View	45°	90°	130°	90°	130°
Max Range	300 m (984 ft.)	300 m (984 ft.)	300 m (984 ft.)	300 m (984 ft.)	300 m (984 ft.)
Optimum Range	4 - 175 m (13 - 574 ft.)	4 - 175 m (13 - 574 ft.)	4 - 175 m (13 - 574 ft.)	4 - 175 m (13 - 574 ft.)	4 - 175 m (13 - 574 ft.)
Beam Width	1° x 15°	1° x 15°	1° x 15°	1° x 15°	1° x 15°
Number of Beams	256	512	768	512	768
Beam Spacing	0.18°	0.18°	0.18°	0.18°	0.18°
Range Resolution	2.0 in.	2.0 in.	2.0 in.	2.0 in.	2.0 in.
Interface					
Supply Voltage	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC
Power Consumption	8.5 W/9.5 W max.	20 W/24 W max.	20 W/24 W max.	17 W/23 W max.	17 W/23 W max.
Connectivity	Ethernet/VDSL*	Ethernet/VDSL*	Ethernet/VDSL*	Ethernet	Ethernet
Mechanical					
Weight in Air	5.7 lbs.	8.6 lbs.	8.6 lbs.	16.7 lbs.	16.7 lbs.
Weight in Water	1.4 lbs.	2.9 lbs.	2.9 lbs.	7.9 lbs.	7.9 lbs.
Depth Rating	1,000 m (3,280 ft.)	1,000 m (3,280 ft.)	1,000 m (3,280 ft.)	4,000 m (13,123 ft.)	4,000 m (13,123 ft.)
Connector Options	MKS, Burton, SeaNet	MKS, Burton, SeaNet	MKS, Burton, SeaNet	MKS, Burton, SeaNet	MKS, Burton, SeaNet
Size L x W (max OD)	9.6 x 6.9 in.	12.7 x 7.1 in.	12.7 x 7.1 in.	15.8 x 8.0 in.	15.8 x 8.0 in.

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

Ordering Information

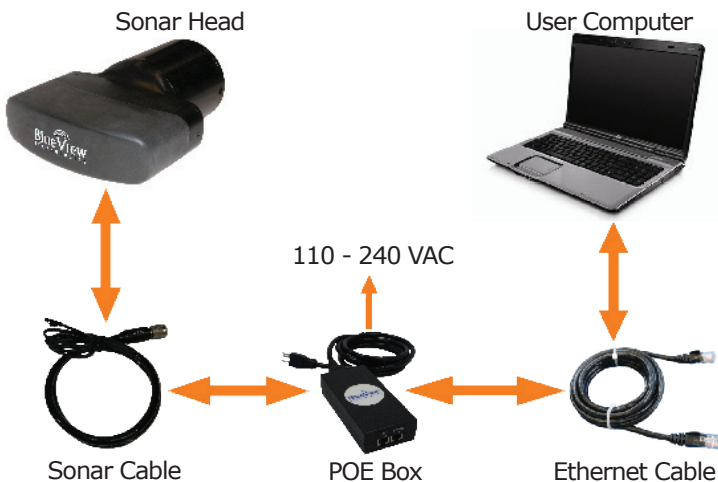
When requesting a quotation or placing an order use the configuration model below to specify your exact model:

P450 - 130 - BR - VDSL

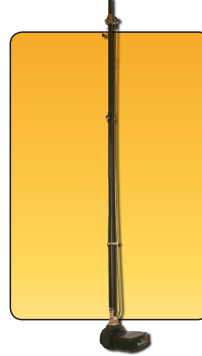
<u>Field-of-View</u>	<u>Connector Type</u>	<u>Options</u>
45: 45° Nominal	MKS: Impulse MKS 10 pin ¹	D: 4,000 m depth
90: 90° Nominal	BR: Burton Mini 8 pin	VDSL: Embedded Ethernet extenders ²
130: 130° Nominal	SN: Schilling SeaNet	

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

Standard Configuration



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.

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