

Accessory Data Sheet

V Series

2D Multibeam Imaging Sonar

The **Teledyne BlueView V Series 2D Imaging Sonar** has been developed exclusively for VideoRay Pro 4 ROVs. Ideal for underwater detection and identification tasks in low or zero visibility conditions, the V Series sonar provides both midrange detection and close-range identification capabilities from moving or stationary platforms.

Adapted from the high-performance P900 Series sonar, the V Series features the same power and capability of its predecessor in a 30% smaller package. The V Series is available with either a 90° or 130° field-of-view (FOV). The V Series sonar seamlessly integrates into the Pro 4 ROV platform through the custom skid mount and VideoRay Cockpit software. The Integration Skid mounts on the ROV in the field within seconds, allowing for quick addition or removal mid-operation if necessary. All V Series sonars are delivered with an Integration Package containing all necessary hardware and software for operation with the VideoRay Pro 4 ROV.

PRODUCT APPLICATIONS

All V Series Sonar operate while in motion, delivering real-time imagery and data.

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





SONAR V-90 MODEL

Operating Frequency Update Rate Field of View Maximum Detection Range Optimal Range

Beam Width Number of Beams Beam Spacing Range / Time Resolution

V-130 MODEL

Operating Frquency Update Rate Field of View Maximum Detection Range Optimal Range

Beam Width Number of Beams Beam Spacing Range / Time Resolution

INTERFACE V-90 MODEL

Supply Voltage Power Consumption Connectivity

V-130 MODEL

Supply Voltage Power Consumption Connectivity 900 kHz Up to 15 Hz 90° x 20° 100 m (328 ft) 2 - 60 m (6.6 -196.9 ft) 1° x 20° 512 0.18° 25.4 mm (1.0 in)

900 kHz Up to 15 Hz 130° x 20° 100 m (328 ft) 2 - 60 m (6.6 -196.9 ft) 1° x 20° 768 0.18° 25.4 mm (1.0 in)

12 - 48 VDC 17 W max Ethernet

12 - 48 VDC 17 W max Ethernet

MECHANICAL V-90 MODEL

Depth Rating Weight in Air Weight in Water

Size (Diameter x Length)

V-130 MODEL

Depth Rating Weight in Air Weight in Water

Size (Diameter x Length)

ENVIRONMENT

V-90 MODEL Operating Temperature Storage Temperature

V-130 MODEL

Operating Temperature Storage Temperature 300 m (1000 ft) 1.5 kg (3.4 lbs) 0.20 kg (0.44 lbs) Negative in freshwater 102 mm x 206 mm (4 in x 8.1 in)

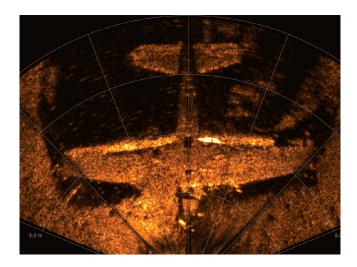
300 m (1000 ft) 1.5 kg (3.4 lbs) 0.20 kg (0.44 lbs) Negative in freshwater 102 mm x 206 mm (4 in x 8.1 in)

0 - 40 °C (32 - 104 °F) -10 - 60 °C (14 - 140 °F)

0 - 40 °C (32 - 104 °F) -10 - 60 °C (14 - 140 °F



VideoRay Pro 4 ROV with V Series Imaging Sonar, Sonar Integration skid, Manipulator Arm



130° Field-Of-View (FOV) 2D Imaging Sonar still image of a sunken WWII Grumman F6F Hellcat Fighter Aircraft