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**: 900 kHz
- **Update Rate**: Up to 15 Hz
- **Field of View**: 90° x 20°
- **Maximum Detection Range**: 100 m (328 ft)
- **Optimal Range**: 2 - 60 m (6.6 - 196.9 ft)
- **Beam Width**: 1° x 20°
- **Number of Beams**: 512
- **Beam Spacing**: 0.18°
- **Range / Time Resolution**: 25.4 mm (1.0 in)

## V-130 MODEL
- **Operating Frequency**: 900 kHz
- **Update Rate**: Up to 15 Hz
- **Field of View**: 130° x 20°
- **Maximum Detection Range**: 100 m (328 ft)
- **Optimal Range**: 2 - 60 m (6.6 - 196.9 ft)
- **Beam Width**: 1° x 20°
- **Number of Beams**: 768
- **Beam Spacing**: 0.18°
- **Range / Time Resolution**: 25.4 mm (1.0 in)

## INTERFACE
### V-90 MODEL
- **Supply Voltage**: 12 - 48 VDC
- **Power Consumption**: 17 W max
- **Connectivity**: Ethernet

### V-130 MODEL
- **Supply Voltage**: 12 - 48 VDC
- **Power Consumption**: 17 W max
- **Connectivity**: Ethernet

## MECHANICAL
### V-90 MODEL
- **Depth Rating**: 300 m (1000 ft)
- **Weight in Air**: 1.5 kg (3.4 lbs)
- **Weight in Water**: 0.20 kg (0.44 lbs)
- **Size (Diameter x Length)**: 102 mm x 206 mm (4 in x 8.1 in)

### V-130 MODEL
- **Depth Rating**: 300 m (1000 ft)
- **Weight in Air**: 1.5 kg (3.4 lbs)
- **Weight in Water**: 0.20 kg (0.44 lbs)
- **Size (Diameter x Length)**: 102 mm x 206 mm (4 in x 8.1 in)

## ENVIRONMENT
### V-90 MODEL
- **Operating Temperature**: 0 - 40 °C (32 - 104 °F)
- **Storage Temperature**: -10 - 60 °C (14 - 140 °F)

### V-130 MODEL
- **Operating Temperature**: 0 - 40 °C (32 - 104 °F)
- **Storage Temperature**: -10 - 60 °C (14 - 140 °F)

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_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