The DDIS-500 visual sonar is used to detect and identify underwater mines by clearance divers in poor visibility conditions and is certified to STANAG 2897 for a low-magnetic signature.

The DDIS-500 uses a multi-beam sonar, 900/2250kHz, to aid the diver in detecting and identifying mines. To support locating and marking subsea mines, the DDIS-500 uses an onboard navigation system that relies on internal sensors to provide navigation data. Information is displayed on a 12-inch LCD display. The unit also uses a low light video camera with adjustable LED light to capture images of subsea objects. All data is stored on a removable USB drive. Wet pluggable batteries provide up to 6 hours of operational use.

The DDIS-500 is supported by mission planning & analysis software that operates on a Microsoft® Windows® based system. An operator can plan a dive mission, upload it to the USB drive, load the USB drive to the DDIS-500, complete the dive while recording the results, and analyze the data from the USB drive through the software.

### Specifications

**Imaging Sonar**

**Blueview Dual Frequency Sonar**
- Frequency: 900/2250kHz
- Horizontal Field of View: 45 deg
- Vertical Field of View: 20 deg
- Range: 100m @ 900kHz, 20m @ 2250kHz

**Navigation Sensors**

**INS SBG-ELLIPSE Heading Sensor**
- Accuracy: <0.5° to 1.5° RMS
- Pitch/Roll: ± 0.2°

**GPS**
- Channels: 72
- Accuracy: 2.5 Meters CPE
- Cold Start: < 30 seconds (90%)
- Reacquisition: < 2 sec (90%)

**Rowe Doppler Velocity Log**
- Frequency: 600 kHz
- Accuracy: 1% +/- 1mm/s
- Maximum Altitude: 120 m (394 ft)
- Minimum Altitude: 0.4 m (1 ft)

**Depth Pressure Sensor**
- Accuracy: 0.1% of Full Scale

**Navigation Accuracy**
- Along Track Error: 5m at 4km over 4 hours

**Environmental**
- Depth Rated: 100m (328ft)
- Non Magnetic: To STANAG 2897, Class B
- Operating Temperature: -4°C to 45°C (25°F to 113°F)

**Power**
- Battery: Hot Swap Rechargeable Lithium
- Operational Life: 6 hours

**Display**
- LED Display: Color, 12 inch, 768/1024 Pixels
- Power: Hot Swap Rechargeable

**Mechanical**
- Size: 56cm x 27cm x 38cm (22.0” x 10.5” x 15.0”)
- Weight: In Air: 20kg (44 lbs)
- Buoyant: In Water: Neutrally
- Housing Material: Delrin and Synthetic Foam
- Switches: Oil Filled, Mechanical

Specifications are subject to change without notice.