



Product Lines



Law
Enforcement



Public
Safety



Fluid Surface
Velocity



Special
Applications

Fluid Surface Velocity Radar

The SVR 3D precisely measures the speed of streams and rivers from a position next to the body of water. The SVR is extremely valuable for measuring high-velocity flows and flood conditions where using direct contact measurement instruments would pose a risk to operator safety

- Proprietary intelligent measurement routines can give average speed measurements in as quickly as 5 seconds!
- Water resistant enclosure with superior ergonomics and balance
- Large 2.8" color, sunlight readable LCD display with intuitive color coded instantaneous and average speed displays
- Exclusive spectral and spectrogram displays to quickly evaluate water conditions
- Li-ion 4800 mAh battery with USB battery charging
- 10 hours continuous run time up to 26 hours of intermittent usage
- Drop proof - up to 1.5m without internal damage
- Tilt sensor for auto-correcting vertical cosine angle
- Display compatible with polarized sunglasses
- Store and recall up to 32K velocity, time and date readings
- USB data transfer for data retrieval and analysis
- Water discharge measurement capability
- Integrated picatinny rail accepts tripod mounting, laser pointing and lighting devices



www.decaturelectronics.com

(800)-428-4315





Technical Specifications

Temperature

Operating: -20C to +70C
Max Humidity: 90% relative humidity @ +37C (98.6 F)

Mechanical

Dimensions: : 21.6 cm (H) x 8.9 cm (W) x 13.2 (L) cm (8.5" x 3.5" x 5.2")
Weight: 0.8 kg (1.8 lbs)

Battery

Li-ion 4800 mAh battery
Battery life: Greater than 26 hours with normal usage
USB port battery charger (BC1.2 compatible)

Microwave

Frequency: 35.5 GHz nominal (Ka-band)
Beam Width: 12° nominal
Polarization: Circular
Power Output: 10 dBm (Typical)

Frame

Rugged ABS Polycarbonate Blend
Integrated Picatinny rail

Display

Full character 2.8" color LCD display
Real time and date in the display
Show speeds in 100ths of a unit
Instantaneous velocity, average velocity - spectral display with tracking marker and spectrogram display

Speed Measurements

Feet-per-second (ft/s)
Meters-per-second (m/s)

Speed Range

0.3 ft/s to 108 ft/s (2 ranges)
0.1 m/s to 33 m/s (2 ranges)

Signal Processing

Angle Compensation: Vertical (automatic) and Horizontal (manual)
Range: up to 100 meter - maximum range dependent on water surface reflectivity
Acquisition Time: Instantaneous speed readout. Average measurement time as quickly 5 seconds depending on water conditions

Communication

USB data transfer



Learn more about
Decatur Electronics
Surface Velocity Radar

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