

Lightweight Radar Gun for *Water Speeds*

Next Generation Surface Velocity Radar: SVR 3D

Decatur's Handheld Surface Velocity Radar is now even better with the introduction of the SVR 3D.

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.

The handheld SVR 3D allows hydrologists to quickly and safely determine the surface velocity of water. Using historically profiled cross-section of rivers and discharge rates, hydrologists can use the portable handheld SVR 3D to easily and efficiently obtain real-time data to estimate the water discharge rates during flooding in order to make scientific based decisions to alert control centres.

The SVR 3D is the latest model from Decatur Electronics and features a colour display, has outstanding battery life, is light weight as well as having many more outstanding features.

The many customer-requested features include:

- Water resistant enclosure with superior ergonomics and balance
- Fast measurements - proprietary intelligent measurement routines can give average speed measurements in as quickly as 5 seconds!
- Tilt sensor for auto correcting cosine correction
- Large 2.8" Colour Display - sunlight readable LCD display with intuitive colour coded instantaneous and average speed displays. Coded displays – with screens that show true radar spectrum display. Display compatible with polarized sunglasses.
- Integrated picatinny rail accepts tripod mounting, laser pointing and lighting devices
- Long battery life (>25 hours) - 4800 mAh battery with USB battery charging
- Light Weight at only 1.8lbs
- Rugged, able withstand 1.5 metre drop
- Store and recall 32K time stamped readings
- Display compatible with polarized sunglasses
- Water discharge measurement capability
- 2 Year Warranty



Contact Marc

on 01246 221469 info@littlewoodhire.com



Websites: www.littlewoodhire.com; www.speedwatch.community
www.decaturelectronics.co.uk; www.sportsradarltd.co.uk, www.speedgun.net
[SVR3DRadarGun3.docx](#)

incorporating:



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" colour 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



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