

SHRINK VECTOR DOPPLER SCORING SYSTEM (SVDOPS-A) CMDI-125B



Product description

The SVDOPS-A Vector Doppler Scorer model CMDI-125B, is a non-cooperative missile-scoring radar that is optimized for use with mid-scale aerial targets, but can be configured for land and sea targets as well.

Integration of the radar unit with any target vehicle is made via a customized installation kit that contains the required installation hardware (cables, antennas, and mounting hardware). The SVDOPS-A target set, along with a compatible ground station, provides a complete vector score with associated attitude for all missile types, and includes a 3D reconstruction of the missile trajectory throughout the entire scoring volume. Trajectory data of the projectile is time-tagged with customer supplied timing information for absolute time-position information of the passing projectile.

Reconstructed animations of projectile intercept, color-graphical and standard-text displays are presented to the operator by either computer monitor or hardcopy. Continuing a legacy which has been field tested since 1998, the SVDOPS-A provides proven non-cooperative vector scoring capabilities.

SVDOPS-A builds upon proven technologies to deliver the most accurate and reliable vector scoring system for the most demanding applications.

Key features and benefits

- Scoring range 30.5m (100 ft)
- 3D trajectory and weapon attitude measurements
- Operating frequency 2433.5 MHz
- Two field selectable radar channel frequencies for multi-drone missions
- Closing velocity measurement range 180 to 1830 m/s (600 to 6,000 ft/s)
- L or S band telemetry

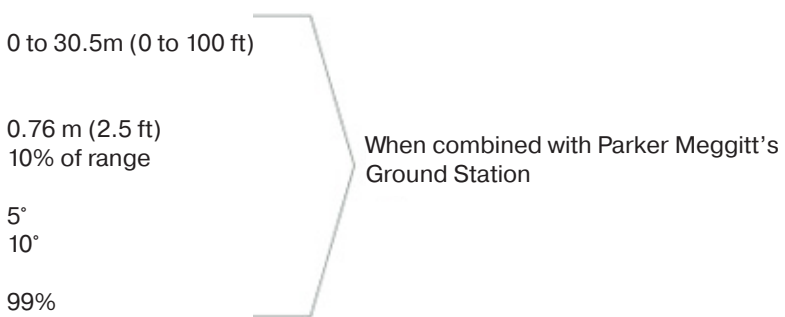
Applications

- Projectile tracking for training and evaluation missions
- Standard installation kits BQM-167i and BQM-167A



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Specifications	
(Accuracy/Coverage metrics based on the BQM-167 Installation) Scoring Range Vector score accuracy (rms) 0 to 7.62 m (0 to 25 ft) 7.62 to 30.49 m (25 to 100 ft) Attitude accuracy (rms) 0 to 15.24 m (0 to 50 ft) 15.24 to 30.5 m (50 to 100 ft) Probability of producing a scalar result	0 to 30.5m (0 to 100 ft) 0.76 m (2.5 ft) 10% of range 5° 10° 99% 
Scoring coverage	Spherical coverage provided via six separate antenna locations on target platform
Telemetry power Frequency (one of two bands) Bandwidth Bit rate	5 watts L-band (1435.5 to 1540.5 Mhz) S-band (2200.5 to 2290.5 Mhz) IRIG 106-15 2.5 Mb/s
Encryption (optional)	KGV-135 (provided separately)
Target formations 2 targets 4 targets	200-ft separation 10,000-ft separation (optional)
Power requirements	22 - 32 V dc @ 5.0 A (max)
Mechanical (radar unit only) Weight Dimensions (maximum) Length Width Height * Excluding connector and cable protrusion	6.8 kg (15 lbs) max 28 cm (11 inches) 17.75 cm (7 inches) 10.2 cm (4 inches) 