

Electronic Systems > Projectile Tracking

Shrink Vector Doppler Scoring System (SVDOPS) CMDI-125A



The SVDOPS Vector Doppler Scorer model CMDI-125A, is a non-cooperative missile-scoring radar that is optimized for use with mid-scale aerial targets. 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 target set, along with a compatible ground station, provides a complete vector score with associated attitude for all missile types, and includes a reconstruction of the missile trajectory throughout the entire scoring volume. Both color-graphical and standard-text displays are presented to the operator by either computer monitor or hardcopy. Field tested since 1998, the SVDOPS provides proven non-cooperative vector scoring capabilities.

Key features

- Scoring range 30.5m (100 ft) maximum
- 3D trajectory and weapon attitude measurements
- Operating frequency 2433.5 MHz
- Two field selectable radar operating frequencies
- Closing velocity measurement range 180 to 1830 m/s (600 to 6,000 ft/s)
- L or S band telemetry
- Supports embedded GPS timing in telemetry data stream
- Standard installation kits BQM-34

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Specifications

Scoring range	0 to 30.5m (0 to 100 ft)
Vector score accuracy (rms)	
0 to 7.62 m (0 to 25 ft)	0.76 m (2.5 ft)
7.62 to 30.49 m (25 to 100 ft)	10% of range
Attitude accuracy (rms)	
0 to 15.24 m (0 to 50 ft)	5°
15.24 to 30.5 m (50 to 100 ft)	5° + 0.1°/ft for each ft beyond 50 ft
Scalar miss distance accuracy (rms)	
0 to 50 ft	0.31 m (1.0 ft)
50 to 100 ft	2% of range
Scoring coverage	Spherical coverage provided via six separate antenna locations on target platform
GPS timing input	1 PPS
Telemetry	
Power	5 watts
Frequency (one of three bands)	L-band (1435.5 to 1540.5 Mhz) S-band (2210.5 to 2290.5 Mhz) SH-band (2310.5 to 2390.5 MHz)
Bandwidth	IRIG 106-93
Bit rate	2.5 Mb/s
Encryption (optional)	KGV-68 built into scorer
Target formations	
2 targets	200-ft separation
4 targets	1400-ft separation (optional)
Power requirements	22 - 32 V dc @ 5.0 A (max)
Mechanical (radar unit only)	
Weight	10.45 kg (23 lbs)
Dimensions (maximum)*	
Length	33.17 cm (13.06 inches)
Width	22.53 cm (8.87 inches)
Height	13.34 cm (5.25 inches)

* Excluding telemetry transmitter and encryption support package.

Specification subject to change - TCO Review #140

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