



Electronic Systems > Projectile Tracking

Radar Rocket Scorer



Key features

- Scoring range 0 - 150m
(0 - 492 ft) nominal
- Manual or automatic data capture
- Real-time or post mission measurements
- Remote monitoring and control option via PC-based remote operator station
- Software configurable
- Built-in-test
- Local or remote data storage

The Radar Rocket Scorer (RRS) is a non-cooperative Doppler radar scoring system that provides highly accurate projectile tracking and impact point scoring. The system is optimized for stationary ground target applications. System operation is automatic with projectile detection and scoring done at the target in real time. System monitoring and control is supported through a standard Ethernet interface and a WLAN data link. Projectile data captured by the radar is stored locally. Processed data can be transmitted over the data link for remote storage and additional post processing. Although designed for use with 2.75 inch unguided rockets, RRS can be configured for operation with a variety of smaller caliber rounds and different firing rates.

Already proven in land based testing, the RRS system generates consistent, accurate data under operational conditions, thereby permitting more realistic training scenarios to be conducted.

Meggitt Defense Systems

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Specifications

Weapon types	2.75 inch rocket (standard) System may be configured for a wide range of weapons via software/hardware configuration changes.
Scoring range	0-150 m (0-492 ft)
Impact point accuracy 0 to 492 ft	(2.75 inch rockets) < 10 meter circular error
Coverage	60 degree pie coverage
Command/control	Wired Ethernet (TCP/IP)
Data link	2.4 GHz WLAN or optional 900 MHz
Built-in-Test (BIT)	Automatic on startup or via external command
Input voltage	22-32 VDC
Power dissipation	200 watts (max)
Weight	60 lbs
Dimensions	16" x 16" x 10" (without lid) 16" x 16" x 16" (with lid)

Diagram illustrating the range configuration. A Radar Rocket Scorer (RRS) is positioned at an offset from a target area. The coverage area is a 60-degree pie shape. A 50m radius is indicated. The target effect area is shown as a circle. The direction of fire is indicated by an arrow.

Example range configuration

Photograph of the Radar Rocket Scorer unit mounted on a tripod.

Specification subject to change - TCO Review #91

Contact

Meggitt Defense Systems

9801 Muirlands Blvd
Irvine, CA 92618, USA
Tel: +1 (949) 465 7700
Fax: +1 (949) 465 9560

www.meggittdefense.com
www.meggitt.com