

# AUTOMATED GROUND SCORING SYSTEM

## DATA SHEET & TECHNICAL SPECIFICATIONS



### Features

- ▶ Auto-scoring
- ▶ 0 to 75 feet scoring range
- ▶ 1 foot scoring accuracy
- ▶ Multiple target application
- ▶ EMI qualified to MIL-STD-461
- ▶ Sea Skimming or High Altitude

### Applications

- ▶ Vehicle Miss Distance Scoring

The Automated Ground Scoring System (AGSS) is comprised of both the Automated Ground Scoring Station and Telemetry Receiver. The AGSS is an easy-to-use Miss Distance scoring system that provides high accuracy auto-scoring with minimal training requirements. The system is a rugged complete scoring solution that is field proven and ideal for gunnery training and weapons assessment for surface and dynamic airborne targets. It is a highly portable system that can be easily set up and ready to support mission operations in less than 5 minutes.

Offering a complete turn-key scoring system that includes the miss distance scoring ground system and DSQ-50 scoring sensor. The scoring sensor transmits a

Doppler radar signal and then detects the radar reflection from a projectile as it passes by. The radar reflection data is then telemetered in real-time to the miss distance ground system which allows the scoring system operator to analyze the data and determine the miss distance score within seconds. This is a scalar system which enables the operator to determine how close the projectile actually came to the target.

This scoring system is a necessity for advanced training and weapon assessment. Scoring data is obtained by the system in seconds which provides for extremely efficient training and evaluation missions. As a training tool users will get immediate feedback of their firing performance as well as objective measurement weapon system operator skills.

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### Characteristics

- ▶ Time to Display Score: Within 5 minutes of each scoring event
- ▶ Range: Line Of Sight (LOS) system to 30mi (48km) – dependent on altitude, obstacles, etc.
- ▶ Accuracy: +/- 1 ft RMS (.30m)
- ▶ Projectile Passage Range: 0 to 75 ft (0 to 23 m)
- ▶ Rate: Up to 90 projectiles per minute
- ▶ Minimum Projectile Size: From 50 Caliber and up (12.7mm and up)
- ▶ Closing Velocity: 200 to 8,000 ft/sec (60.96 to 2438.4 m/sec)
- ▶ Time of Miss Distance: +/- 0.5 msec
- ▶ Operator Displays: Miss Distance, Time of Miss Distance, Plot of Closing Velocity vs. Time
- ▶ Data Storage: All raw telemetry data and calculated parameters are stored for each scoring event
  
- ▶ Telemetry Frequency Range: 1429 MHz to 1545 MHz (L-Band) or 2185 MHz to 2485 MHz (S-Band)
- ▶ Telemetry Sensitivity: -85 dBm
- ▶ Telemetry Demodulation: PCM NRZ-L, Up to 7 Mbps
  
- ▶ Temperature: Operating: +5 deg C to +40 deg C
- ▶ Input Voltage: 115 VAC, Single Phase
- ▶ Power: 200 Watts
- ▶ Dimensions: 19" x 7" x 24.5"

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