The man-portable FLIR Ranger® R6SS electronically-scanned, mid-range radars detect and track personnel and vehicles up to 15 kilometer ranges. Light and small, the Ranger R6SS provides best-in-class target detection and acquisition performance in a form factor that fits in a backpack or is easily mounted to a vehicle or permanent structure as part of an integrated solution. The low false alarm rate and extremely reliable operation builds operator trust and yields high operational availability.

The R6SS has a low minimum detection target velocity that allows detection of slow-moving threats such as walkers or crawlers. It uses a +/-45° scan sector to monitor a perimeter. Adding a pan and tilt provides a full 360° coverage every second. The R6SS provides fast and accurate detection of up to 512 threats simultaneously, allowing large areas to be continuously monitored in real time.

**FEATURES**

**COMPLETE PERIMETER SECURITY**
Extremely fast scanning at 4 times a second per panel, nothing is missed. The Ranger Panel Radars can scan a full 360° every second with a pan tilt mount, quickly detecting any ground threat from any direction.

**HIGH-PERFORMANCE GROUND SURVEILLANCE**
Built-in GPS and North finding capability, automatic target tracker and classification, and low false alarm rate deliver best-in-class performance.

**BUILT FOR RUGGED ENVIRONMENTS**
Panel Radars are MIL-STD-810G qualified and IP67 certified.

**FAST, ACCURATE THREAT DETECTION**
Panel Radars quickly detects up to 512 threats simultaneously while accurately displaying each target’s location.

**MAN-PORTABLE AND EASY TO INTEGRATE**
R6SS can be transported in a backpack of a dismounted soldier and draws only 85W, giving it extreme deployment flexibility. With four mounting bolts and a single cable, the radar is easy to install in fixed installations.

**APPLICATIONS**

**FORCE PROTECTION**
**BORDER SECURITY**
**VEHICLE DISMOUNT**
**ARTILLERY AND MORTAR FIRE CORRECTION**
**UAS DETECTION**
SPECIFICATIONS

Parameters | R6SS
--- | ---
Instrumented range | 15,000 m
Detection Range
Person | 6 km
Light Vehicle | 10 km
Large Vehicle | 15 km
MicroUAS | N/A
MiniUAS | N/A
Small UAS | N/A
Minimum Detection Range | 10 m
Scan sector | ±45° (fixed) - 360° with P/T
Vertical coverage | ≥ 4°
Number of simultaneously displayed tracks | Up to 512
Electronic scan rate | 2 Hz or 4 Hz
Minimum Detection Velocity (MDV) | < 0.1 m/s
Accuracy
Range Accuracy | ± 3 m
Angular Accuracy (azimuth) | < 0.2 degree
Angular accuracy (elevation) | N/A
Power
Power consumption | 85 W nominal
Operating voltage | 20 - 48 VDC
Overview
Size (in) | 14.7” x 14.4” x 4.3” (37 x 36 x 11 cm)
Weight | ≤ 23.1 lbs (10.5 kg)
Operating frequency | X-Band
Connectivity | Ethernet
Other Features
Built-in GPS | Yes
Built-in compass | Yes

For More Information contact
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Specsheet LTR