



MAN-PORTABLE MID-RANGE GROUND SURVEILLANCE RADAR

FLIR Ranger® R6SS

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 |
| Environmental | MIL-STD-461F, IP67, MIL-STD-810G, FCC/CE |
| Other Features | |
| Built-in GPS | Yes |
| Built-in compass | Yes |



AMERICAS

FLIR Systems, Inc.
Corporate Headquarters
27700 SW Parkway Ave
Wilsonville OR 97070
Office: +1 877.773.3547

FLIR Systems, Inc.
DC Headquarters
1201 S. Joyce Street
Suite C006
Arlington, VA 22202
Office: +1 703.682.3400

EUROPE

FLIR Systems
2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
Office: +44 (0)1732 220 011
Fax: +44 (0)1732 843 707

FLIR Systems AB
Antennvägen 6,
PO Box 737
SE-187 66 Täby
Sweden
Office: +46 (0)8 753 25 00

MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi
Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit / Khalifa Park Area
Abu Dhabi, U.A.E.
Office: +971 2 666 1561
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia
Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia
Office: +966 11 464 5323
Fax: +966 11 464 0438

ASIA

FLIR Systems Japan K.K.
Meguro Tokyu Bldg. 5F,
2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan
Office: +81-3-6721-6648

For More Information contact
surveillance_sales@flir.com

www.flir.com
NASDAQ: FLIR

Equipment described herein pertains to a Canadian origin product that is controlled as dual-use by the Canadian government. When in the United States or possessed by a US person, it may be subject to US Jurisdictions, which may require authorization to re-transfer to a foreign person. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2019 FLIR Systems, Inc. All rights reserved. 07/12/19

18-2771-SUR-LND-Ranger R6SS
Specsheet LTR



The World's Sixth Sense®