

R3

FLIR RANGER™

R3 Perimeter Surveillance Radar



Ranger R3 in the field

The Ranger® R3 is a high resolution radar that accurately detects personnel and vehicles up to 2800 meters in virtually any climate, weather or lighting condition to provide 24/7 security.

The Ranger® R3 scans a full 360 degrees every second monitoring over 24 square kilometers (9.6 square miles). Multiple units can be networked in an overlapping array to protect larger areas, like borders. As part of the FLIR wide area surveillance product line, the Ranger R3 may be networked with Ranger® R1 and Ranger® R2 radars as well as DefendIR™ cameras to conform to terrain profiles and secure the area outside and inside your perimeter. Since radars excel at detecting intruders, PTZ cameras can focus on their strength – identifying and assessing the threat – for a more efficient and cost effective solution.

The accuracy and ease of integration and operation of the Ranger® R3, like the entire line of FLIR radars, separates it from the competition. Whether to secure airports or sea ports, borders or public infrastructure assets, or for force protection, the Ranger® R3 is today's answer for detecting and tracking intruders as part of a wide area surveillance solution.

APPLICATIONS

- Secure borders
- Monitor ports
- Guard industrial facilities
- Force protection
- Defend public infrastructure

BENEFITS

- Detect personnel and vehicles
- Tangential detection capability
- Continuous wide area surveillance
- Early warning of intruders
- Low false alarm rates
- Camera integration
- Annunciator integration
- Simple to operate
- Cost effective

General Specifications

Ranger R3	
Target Types	Moving vehicles and personnel
Operating Range	5 m – 2800 m
Resolution	1.2m (range) x 1° (azimuth)
Detection Range	5 m – > 500 m, Crawler 5 m – 1900 m, Personnel 5 m – 2500 m, Vehicles
Range Accuracy	2m typical
Target Speed	0.1 m/s or greater
Target Travel Direction	No limitations
Coverage Area	24 km ² (9.6 mi ²)
Frequency	Ka-Band
Scan Rate	1 revolution per second
Azimuth Beamwidth	1° (2-way)
Elevation Beamwidth	6° (2-way)
Elevation Control	Up: 2.5°; down 10° (fixed settings)
False Alarm Rate	Less than 2 per 24 hours
Input Power	20 – 32 VDC
Radiated Power	Safe for human exposure
Outputs	Ethernet; Intruder location (latitude/longitude, range/bearing, intruder course/velocity, signal quality)
XML	Yes
RF Transmission Masks	2 configurable “no transmit” sectors 1° resolution
Size	14.4” height x 18.25” diameter (364 x 461mm)
Weight	29 lbs (13.1 Kg)
Temperature	-30°C to +65°C
Weather Sealing	Weather resistant (Rain, snow, dust, sand, salt spray)

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