

Ranger® R5

PERIMETER SURVEILLANCE RADAR



APPLICATIONS

DETECT PERSONNEL AND VEHICLES

SECURE BORDERS

MONITOR PORTS, AIRPORTS, AND MILITARY BASES

CRITICAL FACILITIES PROTECTION

BENEFITS

Continuous 360° wide area surveillance

Early warning of intruders

Continuous tracking of intruders

Low false alarm rate

Slew-to-cue camera integration

Annunciator integrations

Simple to integrate and operate

Cost effective

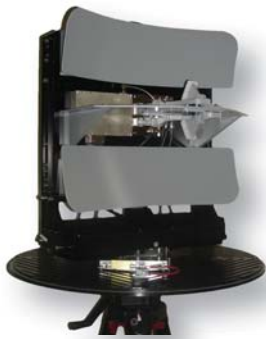
Compact design

OVERVIEW

The Ranger® R5 perimeter surveillance radar provides accurate, high resolution detection of vehicles and personnel. This ground-based radar is designed to meet the rigors of a desert environment, providing 24/7 security to ranges of up to 5000m.

The Ranger R5 perimeter surveillance radar scans a full 360 degrees every second effectively monitoring up to 78 square kilometers (30 square miles). Multiple units can be installed with overlapping coverage areas to protect larger areas such as borders. As part of the FLIR integrated product suite, multiple units may be networked with any or all of the full range of FLIR radars and imagers to conform to terrain profiles and secure areas inside and outside a perimeter. Using the radars' advantage in detecting intruders, pan-tilt-zoom (PTZ) cameras can focus on their strength – identifying and assessing threats – for a more efficient and cost effective solution.

The accuracy, simple integration and easy operation of FLIR radars, separate them from the competition. Whether to secure airports, sea ports, borders and critical infrastructure, or for force protection, the FLIR suite of radars is today's answer for detecting and tracking intruders as part of any wide area surveillance solution.



Ranger® R5

SPECIFICATIONS

Target Types

Target Velocity

Frequency

Resolution

Scan Rate

Azimuth Beamwidth

Elevation Beamwidth

Elevation Control

Input Power

Radiated Power

Communications

XML

False Alarm Rates

Mask Zone(s)

Network

Dimensions

Weight

Operating Range

Detection Range*

Coverage Area

*Clear air, low clutter

ENVIRONMENTAL

Temperature

Humidity

Altitude

Wind

Weather

Power Consumption

Environmental Ratings

Data Bandwidth

Protocol

Moving, Less than 0.1 m/s min

Vehicles and personnel

0.1 to 50 m/s

Ka Band

0.7 m range, 1° azimuth

One revolution per second (60 rpm)

1° (2-way)

3.5° (2-way)

Up: 3°; Down: 5° (fixed settings)

20 to 30 VDC, 24 nominal

Safe for human exposure

Ethernet, wireless, fiber

Yes

< 1 per 24 hours

Two selectable angular blanking zones

Unlimited polygon detection zones

8 per server; total unlimited

21.3 in h x 22.5 in diameter

37 lbs (17 kg)

10 - 5000 m

10 - 3000 m, personnel walking

10 - 3000 m, personnel running

10 - 500 m, personnel crawling (low crawl)

10 - 1000 m, personnel crawling (hands & knees)

10 - 500 m, personnel swimming

10 - 5000 m, vehicles and watercrafts

78 km² (30 mi²)

-30° to +60°C (operating)

-40° to +70°C (storage)

50% +/- 5 to 95% +/- 4, non-condensing (60°C max)

Up to 15,000 ft (operating and storage)

Up to 120 km/hr

Sealing Weather resistant (rain, snow, dust, sand, salt spray)

45 watts

IP65, NEMA 4

Maximum: 1 Mbits without PPI

Maximum: 7 Mbits with PPI

ICD 0100

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