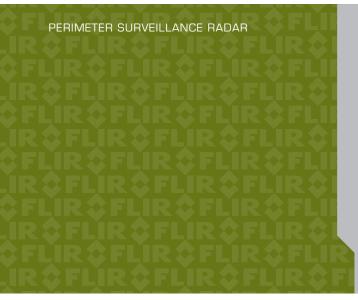# Ranger® R5

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.

◆FLIR®

Ranger® R5

SPECIFICATIONS

Target Types	Moving, Less than 0.1 m/s min
	Vehicles and personnel
Target Velocity	0.1 to 50 m/s
Frequency	Ka Band
Resolution	0.7 m range, 1° azimuth
Scan Rate	One revolution per second (60 rpm)
Azimuth Beamwidth	1° (2-way)
Elevation Beamwidth	3.5° (2-way)
Elevation Control	Up: 3°; Down: 5° (fixed settings)
Input Power	20 to 30 VDC, 24 nominal
Radiated Power	Safe for human exposure
Communications	Ethernet, wireless, fiber
XML	Yes
False Alarm Rates	< 1 per 24 hours
Mask Zone(s)	Two selectable angular blanking zones
	Unlimited polygon detection zones
Network	8 per server; total unlimited
Dimensions	21.3 in h x 22.5 in diameter
Weight	37 lbs (17 kg)
Operating Range	10 - 5000 m
Detection Range*	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
Coverage Area	78 km² (30 mi²)

Clear air, low clutter

ENVIRONMENTAL

Temperature	-30° to +60°C (operating)
	-40° to +70°C (storage)
Humidity	50% +/- 5 to 95% +/- 4, non-condensing (60°C max)
Altitude	Up to 15,000 ft (operating and storage)
Wind	Up to 120 km/hr
Weather	Sealing Weather resistant (rain, snow, dust, sand, salt spray)
Power Consumption	45 watts
Environmental Ratings	IP65, NEMA 4
Data Bandwidth	Maximum: 1 MBits without PPI
	Maximum: 7 MBits with PPI
Protocol	ICD 0100

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EXPORT

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