\$FLIR



FLIR Ranger[®] R5D

The Ranger[®] R5D is a dual mode, ground surveillance radar designed specifically for the environmental conditions common to the Middle East region. As a dual mode radar, the Ranger R5D uses FMCW modulation and can be operated in either Fast Scan or Doppler mode with a Fast Scan range up to 5km. Low minimum detection velocity (MDV), high resolution, and advanced tracking algorithms result in low false alarm rates.

Operating in the Ka-band, this radar is compact and highly portable. It scans 360° every second, 24/7, monitoring large areas in most climates in real time. Easily network other FLIR radars and EO/IR images for slew-to-cue capabilities. Ideal for desert environments, border security, and force protection, R5D provides fast and accurate detection of up to 128 threats simultaneously.

FEATURES

FMCW DOPPLER CAPABILITY

Ranger R5D Doppler provides extended range coverage in almost any terrain. Overcome blind target ranges/velocities by switching to Fast Scan/FMCW.

DUAL-MODE FLEXIBILITY

Both modes share one antenna and detect tangential movement. Scan rate, RF bandwidth, and PRFs are optimized per selected mode.

INTEGRATED PROTECTION

Network multiple FLIR radars and EO/IR imagers with FLIR command and control to form a single powerful, integrated surveillance system.

FAST, ACCURATE THREAT DETECTION

R5D quickly detects up to 128 threats simultaneously while accurately displaying each target's location.

RELIABLE OPERATION & EASY INTEGRATION

High availability rate saves on costs for spare systems or repairs, and it requires only one cable and four bolts for integration.

APPLICATIONS DESERT ENVIRONMENTS SECURE BORDERS FORCE PROTECTION INDUSTRIAL FACILITY SECURITY CRITICAL INFRASTRUCTURE SECURITY MONITOR PORTS, AIRPORTS, & MILITARY BASES

SPECIFICATIONS

R5D Target Types Moving, Less than 0.1m/s minimum for vehicles and personnel Target Velocity 0.1 to 50 m/s Communications Ethernet, wireless, fiber XML Yes (ICD-0100 compliant) Target Information Includes: ID; location: range & bearing; latitude & longitude; Confidence level; Heading; Speed; Time Command & Control Scan Rate 3 to 60 rpm, continuous or sector Elevation Coverage 4° **Elevation Control** Up: 2°; Down: 5° (fixed settings) Input Power 20 to 32 VDC, 24 nominal Radiated Power Safe for human exposure False Alarm Rate < 1 per 24 hours (Fast Scan) One angular detection zone (Doppler) Mask Zone(s) Two selectable angular detection zones (Fast Scan) Unlimited polygon detection zones Environmental Network Up to 8 per server; total unlimited Dimensions 22.5" h x 21.3" diameter Weight 37 lbs (17kg) Power Consumption 40 watts Operating Range 5 - 10 000 m 5-5,500 m, personnel walking Detection Range 5-9,400 m, vehicles and watercrafts 346 km² (135 mi²) Coverage Area Temperature -30° to +65°C (operating) -40° to +70°C (storage) 50% to 95%, non-condensing (60°C max) Humidity Altitude Up to 15,000 ft (operating and storage) Wind Up to 140 km/hr Weather Sealing IP 65 rating Protocol ICD-0100

DETECTION PERFORMANCE

	Fast Scan (no Doppler)	Fast	Doppler Intermediate	Long Range
Instrument Range	5,600 m	10,500 m	10,500 m	10,500 m
Detection Pedestrian	3,000 m	4,000 m	4,600 m	5,500 m
Detection Light Vehicle	5,000 m	6,800 m	8,000 m	9,400 m

*Note: In Doppler long mode, scan angle is limited to 180°



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 AI 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

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

FLIR Systems Japan K.K.

For More Information contact surveillance_sales@flir.com

www.flir.com NASDAQ: FLIR

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. @2019 FLIR Systems, Inc. All rights reserved. 01/02/19

18-2745-SUR-LND-Ranger R5D-Specsheet LTR



The World's Sixth Sense