



HIGH DEFINITION MID-RANGE SURVEILLANCE SYSTEM

FLIR Ranger® HDC MR

The FLIR Ranger HDC MR sets a new standard for high definition perimeter security applications, border surveillance and force protection. With superior capability to detect illegal activities in any weather using built-in fog mode and heat turbulence filters, operators can quickly and accurately determine true threats from false alarms in any situation.

The HDC MR is not only a superior system in bad weather, it also provides increased uptime and reduces cyber risks – a reliable tool that adds days of efficient surveillance and reduces risk compared to previous generations of systems.

Geo-locate targets quickly with the Laser Range Finder option and change quickly from one scene to another with the fast and accurate pan-tilt.

Includes a high-definition thermal imager with 1280 x 720 detector and a 1920 x 1080 HD color TV camera, and is designed for slew to cue integration with other sensors such as radars making it ideal for C-UAS.

FEATURES

SEE MORE

Compared to any legacy standard resolution system, the Ranger HDC MR can capture a wider array of views with the same target resolution thanks to the high definition imagery.

EXTEND THE MISSION CAPABILITY IN BAD WEATHER

See through fog and haze with the fog filter and through turbulent air with the Merlin ASX turbulence filter.

ACT FASTER

Shorten the time between target detection and counter measures with higher resolution imagery for more accurate target classification.

INCREASE UPTIME

Significantly reduce downtime, maintenance and costs with the long-life core that more than doubles the MTBF of previous generations.

LOWER RISK

Protects against hackers with an industry leading cyber security tool that scans at each software release to ensure system is not vulnerable to attacks.

APPLICATIONS

BORDER SECURITY

COASTAL SURVEILLANCE

FORCE PROTECTION

INDUSTRIAL FACILITY

CRITICAL INFRASTRUCTURE SECURITY

AIR & SEA PORTS

COUNTER UAS APPLICATIONS

SPECIFICATIONS

High Definition Thermal Camera		Ranger HDC 350	Ranger HDC 550
Detector type	Indium Antimonide (InSb): 1280 x 720		
Spectral range	3-5 μ m		
Field-of-view	Narrow: 3.0°x1.7° \pm 7% 16:9 image format Wide: 38.0°x21.5° \pm 7% 16:9 image format	Narrow: 1.95°x1.1° \pm 7% 16:9 image format Wide: 24.2°x13.7° \pm 7% 16:9 image format	
Focus	One shot Autofocus and Manual		
Continuous zoom options	Optical zoom: >12x Digital zoom: 16x		
Image processing	FLIR Image Processing Engine with advanced Digital Detail Enhancement (ADE/DDE), Histogram equalization, Electronic image stabilization.		
High Definition Color TV Camera			
Sensor format	1920x1080 pixels		
Focal length	4.3 mm (WIDE) to 129 mm (TELE)		
F-number	F1.6 to F4.7		
Narrow field-of-view	\leq 2.3°x1.3° (digital video)		
Wide field-of-view	>63°x35° (digital video)		
Optical zoom	30x		
Digital zoom	12x		
Min. Sensitivity	0.1 lx High Sensitivity Mode Off 0.01 lx High Sensitivity Mode On		
Focus	1.2 m to infinity		
Fog mode	on/off		
Pan & Tilt Unit			
Az Range; Az velocity	nx360°; 0.08°/s - 120°/s		
El Range; El velocity	-35° - +90°; 0.08°/s - 120°/s		
Accuracy	\pm 0.5 mrad		
Resolution	\leq 0.05 mrad		
Parking position	Default transportation/Stand-by parking position in elevation		
Image Presentation			
Video format	HD-SDI video output format: 1920x1080p29.97 YCbCr 4:2:2 according to SMPTE 274M carried over SMPTE 292M Ethernet video output format: H.264 carrying 1920x1080p29.97		
Connectors			
Connectors	Power connector, type D38999 series III Main connector, type D38999 series III Ethernet connector, Amphenol RJFTV212N or similar		
Options available			
Laser Range Finder (LRF)	Yes, optional: Mid range (10 km) or Short range (6 km)		
Geo Positioning (GPS)	Yes, optional		
Digital Magnetic Compass (DMC)	Yes, optional		
Merlin ASX - Turbulence filter	Yes, optional		



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

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