## **\$**FLIR



## 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.

### HIGH DEFINITION MID-RANGE Surveillance system

# FLIR Ranger<sup>®</sup> 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 either a 1280 x 720 cooled detector or a 1024 x 576 uncooled detector along with 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.

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 UC	Ranger HDC 350	Ranger HDC 550	
Detector type	Micro-bolometer FPA: 1024x576	Indium Antimonide (InSb		
Spectral range	7.5 – 13.5 µm	3-5 μm		
Field-of-view	Narrow: 5.4°x3.1° ±7% 16:9 image format Wide: 16.8°x9.3° ±7% 16:9 image format	Narrow: 3.0°x1.7° ±7% 16:9 image format Wide: 38.0°x21.5° ±7% 16:9 image format	Narrow: 1.9°x1.08° ±79 16:9 image format Wide: 24°x13.5° ±7% 16:9 image format	
Focus	One s	shot Auto focus and Manual		
Continuous zoom options	Two optical Fields of View with seamlessly integrated digital zoom between Wide FOV and NFOV. Digital zoom: 16x	Optical zoom: >12x Digital zoom: 16x		
Image processing		age Processing Engine with advanced Digital Detail Enhancement (ADE/DDE), am 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	≤2.3°x1.3° (digital video)			
Wide field-of-view	>63°x35° (digital video)			
Optical zoom	30x			
Digital zoom	12x			
Min. Sensitivity	0.1 Ix High Sensitivity Mode Off 0.01 Ix 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	±0.5 mrad			
Resolution	≤0.05 mrad			
Parking position	Default transportati	on/Stand-by parking positio	n 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 RJFTV21ZN or similar			
Options available	anomotion and the Amphonor he			
	Van antional: Mid range (10 line)	or Chart range (Clum)		
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 Yes, optional (for both channels, select one video at a time)		

### AMERICAS

#### FLIR Systems, Inc. Corporate Headquarters 1201 S. Joyce Street Suite C006 Arlington, VA 22202 Office: +1 703.682.3400

FLIR Systems, Inc. 27700 SW Parkway Ave Wilsonville, OR 97070 Office: +1 877.773.3547

### 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

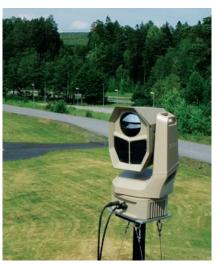
FLIR Systems Japan K.K.

For More Information contact surveillance\_sales@flir.com

### www.flir.com NASDAQ: FLIR

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