



HIGH-DEFINITION LONG-RANGE SURVEILLANCE SYSTEM

FLIR Ranger® HDC MS

FLIR Ranger® HDC MS increases mission effectiveness, extending surveillance through darkness, distance, and especially when “bad weather is good smuggling weather.” This multisensor system integrates long-range, mid-wave thermal imaging with a variety of powerful daylight sensors, and optionally a laser range finder, GPS, digital magnetic compass, and automatic video tracker. Read ship names or license plates, or watch the scene from a safe standoff distance of up to and beyond the 15 km range.

Integrated fog and heat turbulence filters penetrate particulates and eliminate image distortion caused by atmospheric conditions. Pan-tilt 1280x720 HD MWIR and visible cameras with powerful continuous-zoom telescopes help detect and identify more targets from farther away. Ranger HDC MS assesses threats while discerning between nuisance alarms and those requiring interdiction for border, coastal surveillance, and force protection surveillance. Besides increasing the mission effectiveness in bad weather, it also helps forces act faster, increase uptime, and reduce cyber risks.

FEATURES

SEE MORE IN WIDE FORMAT

HD imagery captures twice as much of a scene compared to legacy standard resolution.

EXTEND MISSION CAPABILITY IN BAD WEATHER

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

ACT FASTER WITH HIGHER RESOLUTION IMAGERY

Shorten the time between target detection and counter measures with more comprehensive intel from HD details and a fast, accurate pan-tilt that's perfect for slew-to-cue applications.

INCREASE UPTIME AND REDUCE COSTS

New long-life core doubles uptime and significantly reduces the downtime, maintenance, and logistic costs compared to previous generations.

REDUCE CYBER RISK

A cyber security tool provides high resistance to hacker attacks that can compromise mission effectiveness.

APPLICATIONS

BORDER SECURITY

COASTAL SURVEILLANCE

FORCE PROTECTION

INDUSTRIAL FACILITY

CRITICAL INFRASTRUCTURE SECURITY

AIR & SEA PORTS

VEHICLE & MAN-PORTABLE CAPABILITIES

SPECIFICATIONS

| Thermal Imaging | Ranger HDC 800 | | Ranger HDC 1200 | |
|--------------------------------|--|-------------------------------------|---|-------------------------------------|
| Detector type | Indium Antimonide (InSb): 1280x720 pixels | | | |
| Spectral Range | 3 – 5µm | | | |
| Field-of-view | 1.35° (H) to 30° (H), (±7%), 16:9 format | | 0.92° (H) to 20.4° (H), (+/-7%), 16:9 format | |
| Continuous zoom | Optical zoom 22x, Digital zoom 16x | | | |
| Color TV | HD LR-TV 750/720 | HD LR-TV 750/1080 | HD LR-TV 1000/720 | HD LR-TV 1000/1080 |
| Sensor format | 1/2" Color CCD, 1280 x 720 pixels | 1/2" Color CMOS, 1920 x 1080 pixels | 1/2" Color CCD, 1280 x 720 pixels | 1/2" Color CMOS, 1920 x 1080 pixels |
| Focal length | 12.5 – 750 mm 25 – 1500 mm with 2x extender | | 16.7 – 1000 mm 33.4 – 2000 mm with 2x extender | |
| Narrow field-of-view | (H) 0.54°, 0.27° with 2x extender | (H) 0.51°, 0.25° with 2x extender | (H) 0.4°, 0.2° with 2x extender | (H) 0.38°, 0.19° with 2x extender |
| Wide field-of-view | (H) 31.5° | (H) 29.6° | (H) 22.8° | (H) 22.4° |
| Optical zoom | 60x, 120x with 2x extender | | | |
| Min sensitivity | 3 lux | 1 lux | 3 lux, 0.5 lux @10Hz | 1 lux, 0.17 lux @10Hz |
| Fog filter | no | no | yes | yes |
| Pan-tilt | | | | |
| Az Range; Az velocity | n x 360°; 0.03° – 100° / sec continuous | | | |
| EI Range; EI velocity | ± 90°; 0.03° – 100° / sec | | | |
| Accuracy | ± 0.5 mrad | | | |
| Resolution | 0.2 mrad | | | |
| Options | | | | |
| LRF | Optionally available | | | |
| GPS | Optionally available | | | |
| DMC | Optionally available | | | |
| Merlin ASX Turbulence filter | Optionally available, for IR camera or Color camera or for both IR camera and Color camera | | | |
| Automatic Video tracker | Standard option | | | |
| Electronic image stabilization | Standard option | | | |
| Interfaces | | | | |
| Ethernet | Command and control, all functions and h. 264 video | | | |
| Video out | 2x HD SDI, and h.264 | | | |
| 4-wire RS-485 full duplex | Command and control all functions | | | |
| Power | | | | |
| Input voltage | +31 VDC (operates between 18-32VDC) | | | |



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