



MID-RANGE PAN/TILT MULTI-SENSOR WITH SPOTLIGHT

FLIR Ranger MS-UC EnforcIR™

The Ranger MS-UC EnforcIR™ is a unique deterrence system that builds on the impressive capabilities of the DefendIR™. Along with a daylight/low-light CCD camera and an uncooled VOx thermal imager, the Ranger MS-UC EnforcIR adds a high power spotlight to detect, deter, and temporarily disorient intruders. In fact, its 12 million candlepower spotlight can illuminate trespassers within a one-mile radius – ideal for perimeter security, border surveillance, crowd control, deterrence, and SAR operations.

A pan-tilt design capable of 360° continuous panning, -72° to 66° tilt, and ruggedized to withstand temperatures from -40°C to 60°C, EnforcIR is easy to integrate out of the box. Tap into existing fiber, wireless, or IP networks, or interface with VMD, radar, UGS, or other trigger sensors for a slew-to-cue solution. Multiple lens options are available to customize field of view and detection range. The ruggedized housing is environmentally sealed and certified to meet NEMA4X, IP66 and MIL-STD-810F specifications, standing up to the most challenging weather and temperature conditions. EnforcIR provides 24/7 perimeter security and surveillance in virtually any environment.

FEATURES

THERMAL/VISIBLE CAMERA + POWERFUL SPOTLIGHT

The 26x zoom visible camera slaves to the FOV of the thermal camera and 12-MCP spotlight, maximizing threat assessment.

BRIGHT STROBE DETERS TROUBLE

The high-powered spotlight temporarily blinds or disorients intruders, and alerts unwanted boat, car, and pedestrian traffic to leave restricted areas.

PTZ IN A RUGGEDIZED HOUSING

With continuous zoom, tilt, and 360° pan—and sealed to NEMA 4/IP66 specifications—EnforcIR is ready for covert or non-covert deployment, CE tested.

COVERT SURVEILLANCE

A 850-nm spotlight filter provides visibility through windows without alerting the threat that they are under surveillance.

REAL-TIME IMAGE BLENDING

Blend imagery from the uncooled IR and CCD cameras with VisionSense™ to penetrate glare and see through glass, water, or light foliage.

APPLICATIONS

FORCE PROTECTION

BORDER SURVEILLANCE

TACTICAL RECONNAISSANCE

TRAINING RANGE APPLICATIONS

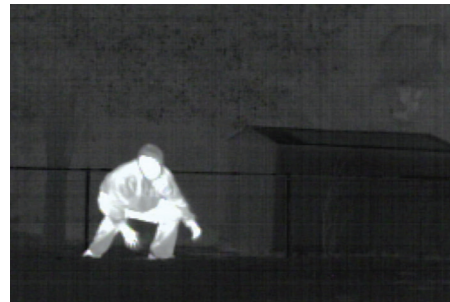
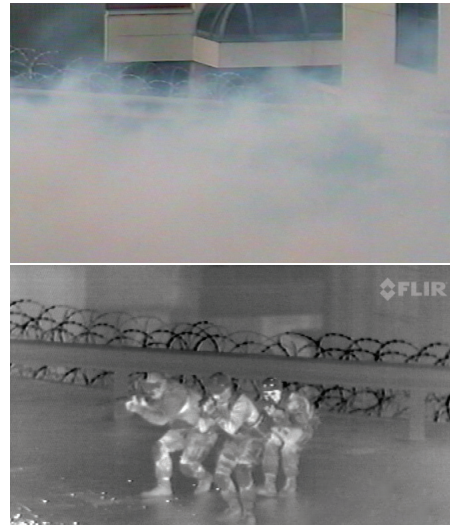
FIXED AND MOBILE SECURITY

TARGET TRACKING

LONG RANGE SURVEILLANCE

SPECIFICATIONS

RANGER MC-US ENFORCIR	
Video Output	RS-170 (NTSC) or CCIR (PAL)
Serial Interface	RS-422 and 10/100 Ethernet
Operating Temperature	-40° to +60° C (Spotlight -15°C to +60°C)
Environmentally Sealed	NEMA 4 & IP66
Weight	<33 lbs. (15 kg) (Varies by configuration)
Azimuth Control	Continuous 360°
Elevation Control	Up to -72° to +66° (varies by configuration)
Pan & Tilt Slew Rate	0.25 to 60°/sec, controlled
Pointing Accuracy & Pan Repeatability	Pan ± 0.25° Tilt ± 0.1°
THERMAL CAMERA	
Detector	Uncooled, Vanadium Oxide Microbolometer
Frame Rate	30 hz
Resolution	640 x 480
Spectral Response	LWIR
IR Lens Options	25mm, 50mm, 100mm 30/90mm Continuous zoom, 45/135mm Continuous zoom
IR Zoom	Continuous Digital Zoom 1x to 4x
Focus	Remote focus
Gain / Level Controls	Automatic or Manual
SPOTLIGHT	
Beam Width	Adjustable, 1° to 40°
Light Output	12 MCP
Illumination Range	1 lux on target at up to 1.9 miles (3 km)
CCD CAMERA	
CCD Lens	3.5mm (Wide FOV 42°) 91mm (Narrow FOV 1.6°)
Image Stabilization	Optional
Zoom	Optical: 26x Digital: 12x Total: 312x
Minimum Illumination	0.6 lux typical, 1/60 sec (NTSC) 0.04 lux typical 1/4 sec (NTSC)
POWER	
Power Input	24 VDC ± 10% or 110/220 V AC 50/60 Hz
Power Consumption	Spotlight OFF: 22 W nominal, 45 W max Spotlight ON: 140 W nominal, 250 W max



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The World's Sixth Sense®