

Ranger™ HRC

PORTABLE, LONG-RANGE THERMAL
IMAGING SURVEILLANCE SYSTEM WITH
MULTI-SENSOR OPTIONS



APPLICATIONS

FORCE PROTECTION
BORDER SURVEILLANCE
TACTICAL RECONNAISSANCE
TRAINING RANGE APPLICATIONS
FIXED AND MOBILE SECURITY
TARGET TRACKING
LONG-RANGE SURVEILLANCE

FEATURES

Cooled Thermal Imaging

12.5x Continuous Zoom

Autofocus
Tunable Dynamic Digital Enhancement™ (DDE)

Large Format 640 x 480 Detector

Rugged, Fully MIL-Qualified

Network Enabled

MPEG4 Digital Video Format
Compact, Long Range Optics

It's All FLIR

BENEFITS

Cooled detector results in long range performance. Designed for man-size target detection above 10 km and vehicle detection above 20 km

Largest continuous zoom range available provides crisp image over full zoom range. Never lose sight of the target with continuous or pre-set zoom positions

Immediate clear and focused image at the touch of a button

Reveals scene details missed by systems offering only histogram or linear image processing. Delivers a high contrast image even in the most challenging thermal conditions

Unmatched sensitivity and four times the resolution of mid-format systems for significantly greater range performance and image quality

FLIR's unique CDMQ™ process (Commercially Developed, Military Qualified) delivers a military quality system, designed to work 24/7/365

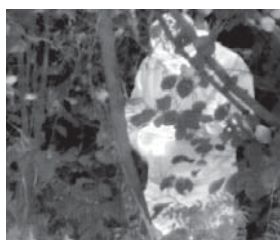
Supports Nexus™ and common Pelco® network control protocols for easy installation and integration into existing networks

Provides the highest fidelity VOIP possible

Combines high performance with low weight and small size. Ranger HRC has the lowest system weight in its class — less than 19 lb (8.5 kg) system weight



Wide FOV



Narrow FOV with continuous optical zoom



Ranger™ HRC

THERMAL IMAGER OPTIONS

Sensor type	640 x 480 InSb focal plane array
Wavelength	3-5 μ m response
Continuous-Zoom range options	25° to 2° FoV
	14° to 1.1° FoV
	6.3° to 0.5° FoV
	9.4° to 0.75° FoV
Selectable pre-set FOVs	Multiple
Automated features	Auto Focus, Auto Adjust Focus Memory, Tunable Digital Detail Enhancement (DDE)

COLOR CCD-TV CAMERA OPTIONS

Format	NTSC or PAL
Type	Color CCD
FOVs	Standard Range, 26x (1.6° to 42°)
	Long Range, 25x (0.48° to 28.7°)
	Ultra Long Range (0.5° to 11.8°)

LASER PAYLOAD (OPTION)

Rangefinder	Type	Erbium-glass
	Max. range	20Km
	Classification	Class 1 (eyesafe)

SYSTEM INTERFACES

Analog video	NTSC/PAL
Digital video	MPEG 4 (option)
Command & Control	Point-to-Point Serial or Ethernet 10/100 (single user)
	Pelco® Endura D (option)
	Nexus Networking Suite (option)

ENVIRONMENTAL

Standards	MIL-461D; IP 65; IEC 529
Operating temperature	-26°F to 131°F (-32°C to 55°C)
Storage temperature	-40°F to 158°F (-40°C to 70°C)

POWER REQUIREMENTS

Voltage	18-35 VDC
Consumption	31 W (140 W w/heater)

DIMENSIONS & WEIGHT

Size	18.6" x 7.6" x 8.8" (47.4 x 19.4 x 22.5 cm)
Weight (can vary with options)	System configuration dependant

OTHER OPTIONS & ACCESSORIES

Digital Magnetic Compass (DMC), GPS, Geo-Pointing & Positioning
Contact FLIR for details.

THERMAL IMAGER OPTIONS



6.3° to 0.5° FoV
9.4° to 0.75° FoV



14° to 1.1° FoV



25° to 2° FoV

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