

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 STACE™ Enhancement

Large Format 640 x 480 Detector

Rugged, Fully MIL-Qualified

Network Enabled

MPEG4 Digital Video Format
Compact, Long Range Optics

It's all FLIR inside

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

FLIR controls the entire supply chain on the critical technology inside Ranger HRC systems, ensuring fast service and long term support



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 µm response
Continuous zoom range options	Multiple options, see below
Selectable pre-set FOVs	4
Automated features	Auto Focus, Auto Adjust Focus Memory, Tunable STACE™ digital detail enhancement

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	20 km
	Classification	Class 1 (eyesafe)

SYSTEM INTERFACES

Analog video	NTSC/PAL
Digital video	MPEG 4 (option)
Command and 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 with 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 with 88 x 1100 mm lens
9.4° to 0.75° FOV with 59 x 735 mm lens



14° to 1.1° FOV with
40 x 490 mm lens



25° to 18° (2 fixed FOV) and
12° to 2° (6x continuous zoom),
with 22 x 275 mm lens

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STACE™
Digital Image Enhancement

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