# Ranger® HRC

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



#### **APPLICATIONS**

FORCE PROTECTION

**BORDER SURVEILLANCE** 

TACTICAL RECONNAISSANCE

TRAINING RANGE APPLICATIONS

FIXED AND MOBILE SECURITY

TARGET TRACKING

LONG RANGE SURVEILLANCE

#### **FEATURES**

Cooled Thermal Imaging

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

above 20 km

**BENEFITS** 

12.5x Continuous Zoom

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

Autofocus

Immediate clear and focused image at the touch of a button

Tunable STACE™ Enhancement

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

Large Format 640 x 480 Detector

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

Rugged, Fully MIL-Qualified

FLIR's unique CDMQ™ process (Commercially Developed, Military Qualified) delivers a military quality system, designed

to work 24/7/365

Network Enabled

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

MPEG4 Digital Video Format

Provides the highest fidelity VOIP possible

Compact, Long Range Optics

Combines high performance with low weight and small size. Ranger HRC has the lowest system weight in its class, less than 19 lb

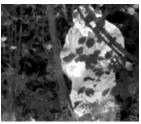
(8.5 kg) system weight

It's all FLIR inside

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 Wavelength Continuous zoom range options Selectable pre-set FOVs

Automated features

Auto Focus, Auto Adjust Focus Memory, Tunable STACE™ digital detail enhancement

# COLOR CCD-TV CAMERA OPTIONS

Format Tvpe **FOVs** 

NTSC or PAL Color CCD

3-5 µm response

Standard Range, 26x (1.6° to 42°) Long Range, 25x (0.48° to 28.7°) Ultra Long Range (0.5° to 11.8°)

640 x 480 InSb focal plane array

Multiple options, see below

## LASER PAYLOAD (OPTION)

Rangefinder

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

#### **SYSTEM INTERFACES**

Analog video Digital video

Command and Control

NTSC/PAL MPEG 4 (option)

Point-to-Point Serial or Ethernet 10/100 (single user)

Pelco® Endura D (option) Nexus Networking Suite (option)

#### **ENVIRONMENTAL**

Standards Operating temperature Storage temperature

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

#### **POWER REQUIREMENTS**

Voltage

Consumption

18-35 VDC 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

#### **CORPORATE HEADQUARTERS**

FLIR Systems, Inc. 27700 SW Parkway Ave. Wilsonville, OR 97070 PH: +1.800.727.3547

#### WASHINGTON, D.C.

FLIR Systems, Inc. 2800 Crystal Drive, Suite 330 Arlington, VA 22202 USA PH: +1.703.416.6666

#### **ALPHARETTA**

FLIR Systems, Inc. 5940 Cabot Parkway, Suite 100 Alpharetta, GA 30005 USA PH: 1.800.762.4796

#### **BOSTON**

FLIR Systems, Inc. 25 Esquire Road North Billerica, MA 01862 PH: +1.800.464.6372

#### HUNTSVILLE

FLIR Systems, Inc. Huntsville, AL USA PH: +1.256.325.3547

#### PITTSBURGH

FLIR Systems, Inc. Freeport, PA USA PH: +1.724.295.2880

#### STILLWATER

FLIR Systems, Inc. 1024 S. Innovation Way Stillwater, OK 74074 USA PH: +1.405.372.9535

#### **EUROPE**

FLIR Systems, Ltd. West Malling, Kent PH: +44.1732.220011

#### CANADA

FLIR Systems, Ltd. Burlington, ON Canada

PH: +1.800.613.0507

FLIR Systems, Ltd. 3440 Francis-Hughes, Suite 120 Laval, QC H7L 5A9 Canada

PH: +1.450.663.4554

# SWEDEN

FLIR Systems AR



