

Ranger® II/III

PORTABLE LONG RANGE THERMAL
IMAGING SYSTEM



Ranger III XR Plus

APPLICATIONS

TARGETING

FORWARD AREA SURVEILLANCE

FORCE PROTECTION

BORDER SECURITY

COASTAL SURVEILLANCE

FEATURES

Powerful mid and large format
50/250 mm, 100/500 mm, or 150/750 mm
long range imaging system

Dual field of view system

Portable

Flexible

Advanced image processing

Simple mounting

Simple operation

Rugged Mil STD 810F qualified

Optional built-in heaters

Built-in Test (BIT)

It's all FLIR inside

BENEFITS

Track targets at extreme ranges in total darkness and through most obscurants with performance on par with 1500 mm systems

Allows for fast target orientation and situational awareness, easily switch to the super long range zoom

Take Ranger II/III to the field and set up quickly for force protection or forward observation; optional pan tilt and remote control available

A variety of standard control interfaces, video outputs, and power supply options make fielding easy

Provides sharp thermal imagery regardless of scene dynamics, even with hot targets in cold scenes

Install on vehicles, tripods, or into fixed security networks

Automatic image optimization and intuitive controls speed proficiency

Allows deployment in severe climatic or battlefield conditions

Keeps the lens clear in cold climates

Intelligent self-test confirms optimum performance at start up and offers on-screen help menus which reduce fielding and support issues

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



Crisp thermal imagery – regardless of scene dynamics



Long range optics aid in identification



Ranger® II/III

THERMAL IMAGING PERFORMANCE

Sensor type	320 x 240 or 640 x 480 InSb
Number of "fields of view"	2
Wide FOV	11.0° x 8.2°
Narrow FOV	2.2° x 1.6°
Wide FOV (XR)	5.5° x 4.1°
Narrow FOV (XR)	1.1° x 0.8°
Wide FOV (XR Plus)	3.6° x 2.6°
Narrow FOV (XR Plus)	0.7° x 0.5°
E Zoom	2x, 4x
Spectral band	3-5 µm

SYSTEM FEATURES

Advanced image management	Automatic image optimization, polarity, color palettes, image freeze, auto focus, focus memory, STACE™ (digital image enhancement)
BIT	Internal diagnostic confirms optimum system performance at startup, and includes on-screen help files

OUTPUTS

Video	NTSC or PAL video, S video
Connector types	BNC, S-Video

POWER REQUIREMENTS

Power requirements	9-28 VDC (AC adapter included)
Power consumption	80 W at 24 VDC with optional heater

ENVIRONMENTAL

Mil-SPEC	MIL-STD-810F
Operating temp	-32°C to 55°C (-26°F to 131°F)

DIMENSIONS, WEIGHT & MOUNTING

Dimensions	56 cm L x 22.9 cm Dia (20" L x 9" Dia) including sun shield
Weight	9 kg (< 20 lbs depending on options)
Mounting	1/4" -20 threaded base plate

INTERFACES

Command and control	RS 232, 422
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STANDARD PACKAGE OPTIONS

Hard shell lockable case with fitted foam insert, 110/220 VAC power supply, break out box, system controller, 7.6 m cable system cable, operator's manual

OPTIONAL ACCESSORIES

Tripods, monitors, hard carbon coatings, extended cables, Nexus mini server, pan/tilt controller

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STACE™
Digital Image Enhancement

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