

❖ **SECURITY**

GUARDSMAN

Affordable Handheld Thermal Security Camera

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EXPERIENCE THE GUARDSMAN ADVANTAGE

FLIR's Guardsman handheld thermal imaging cameras let security professionals see clearly in total darkness, providing an undeniable tactical advantage. Using the same technology popular with law enforcement and military units around the world, Guardsman provides the information people need to maximize operational effectiveness, respond quickly, and stay safe.

No one can hide their heat, so Guardsman lets every security professional:

- See intruders in total darkness
- Set up temporary, remote surveillance sites; run video output to monitors or DVRs
- See people, animals, and vehicles through smoke, dust, and light fog
- See and assess intrusions from the safety and comfort of a patrol vehicle
- See better through camouflage and foliage in any lighting conditions
- See more – and see farther – than with other lowlight night vision camera technologies, so officers can assess alarms from a safe distance

Using a 320 x 240 thermal imaging core, Guardsman provides four times the image clarity and detail of earlier systems, allowing security officers to see more of their surroundings than any other night vision technology in the world. FLIR's advanced image-processing algorithms produce crisp, clear thermal video day and night, in good weather and bad.

Guardsman offers both grayscale and color thermal imaging, and can display a temperature readout scale for objects in the center of the scene. Best of all, Guardsman is the first personal thermal imaging camera affordable enough for every security team to have the unsurpassed tactical advantages of full-resolution thermal night vision, and gives them the power to see where fixed-site and even pan/tilt cameras can't. Guardsman fills in the gaps that exist in every stationary camera network.



Is there a fire behind this door (left)? Guardsman gives you the temperature information you need to proceed safely. Guardsman also has multiple color display options (right) to pull out image details you might otherwise miss.



Guardsman's thermal imager lets security professionals see into the deepest shadows, filling in the gaps where fixed site and even pan/tilt cameras can miss.

GUARDSMAN THERMAL VS. LOW-LIGHT AMPLIFIED NIGHT VISION

Fully integrated perimeter alert system for simultaneous threat detection and assessment.

Daylight TV cameras, image intensified (I²) night vision devices, and the human eye all see the same thing: reflected visible light.

Unfortunately, we need visual contrast to discern an object from its surroundings, and at night there is very little visual contrast to work with. Conventional night vision scopes are great for situational awareness, but they can't see in total darkness.

Guardsman thermal cameras don't have that problem because they make pictures from heat, not light. Everything we encounter in day-to-day life gives off thermal energy, even ice. The hotter something is the more thermal energy it emits. This emitted thermal energy is called a heat signature. When two objects next to one another have even subtly different heat signatures, they show up clearly to a thermal imager regardless of lighting conditions.

People make their own heat, and their own contrast, so Guardsman cameras can see them regardless of visible contrast or camouflage.

Bottom line: Guardsman thermal cameras let officers see clearly 24/7, and now they're affordable enough for every security officer to have.

To learn more, watch the enclosed video. You can also read the full article, Thermal Imaging vs I² Night Vision, available on www.flir.com.



Guardsman makes pictures from heat, not light, detecting the subtle heat signatures that surround us all of the time, making them impervious to visual camouflage and low light levels.



Thermal energy travels through smoke and dust easily, so you can see through them clearly. This makes Guardsman a perfect tool for investigating smoky areas for fire danger and for making sure no one is in a smoke-filled room.

SECURITY

THE POWER OF THERMAL NIGHT VISION IN THE PALM OF YOUR HAND

Thermal imaging complements and completes your security camera network by turning night into day, and giving you the power to see threats invisible to the naked eye.



GUARDSMAN
WITH 24° Lens



GUARDSMAN
WITH 7° Lens



SD CARD SLOT: Allows for easy field upgrades and the storage of captured still images and video evidence on the removable SD card *

USB2 CONNECTION: Rapid transfer of still images and video from the Guardsman to a PC *

BATTERY COMPARTMENT: Four rechargeable AA NiMH batteries are good for more than six hours of continuous operation; Guardsman also runs on standard non-rechargeable alkaline and Lithium Ion AA batteries



SHUTTERED EYEPIECE: Keeps light from coming out of the viewfinder, helping you to stay covert

MULTIPLE LENS OPTIONS AVAILABLE: Choose the 19 mm lens with 24° field of view (and its optional 2x optical extender), or the longer-range 65 mm lens with 7° field of view for maximum standoff viewing capability

RUGGED DESIGN: All-weather design is built to withstand the demands of day-in, day-out security operations. It's even submersible

HOT SHOE ATTACHMENT: The included "hot shoe" attachment provides power-in and RCA composite video-out connections while maintaining the camera's tripod mounting capability for temporary remote installations

TWO-SIDED HAND STRAP: Accommodates both left-handed and right-handed users



POWER: Virtual instant-on from Standby mode

RECORD: Press and release the RECORD button once to capture a single image and save it to the internal SD card. Press and hold the RECORD button for more than 2 seconds to record live thermal video *

E ZOOM: Cycles the 2x e-zoom on and off

BRIGHTNESS: Adjusts the brightness of eyepiece display

POLARITY: Switches the display between Black Hot/White Hot grayscale display and optional color palette display modes

* = Pro model only.

CHOOSE THE PACKAGE THAT MEETS YOUR MISSION REQUIREMENTS

The Guardsman thermal night vision camera comes with everything needed for 24/7 thermal security coverage.

BASIC MODEL WITH VIEWER ONLY:

The Guardsman Basic camera package contains all necessary features for covert, all weather, 24/7 thermal security imaging. Choose either the standard 24° lens or the long-range 7° lens, depending on your mission requirements; an optional 2x optical extender is available for the 24° lens version. In addition to the Guardsman thermal camera, the Basic camera package includes:

- Temperature Scale: Displays the temperature of the object in the center of the image; perfect for finding recently parked cars and detecting fire danger
- Hot Shoe accessory: Provides convenient power input and video output
- Four rechargeable AA NiMH batteries: Provides more than five hours of camera operation on a single charge
- AC power adapter: Fully charges the batteries in under two hours
- Vehicle power adapter/charger: For field charging and battery management
- Neck lanyard: Safeguards your investment
- Field upgradeability to the Pro model
- FLIR Guardsman Operator's Manual

GUARDSMAN PRO MODEL WITH VIEWER, STILL FRAME CAPTURE, AND VIDEO STORAGE:

The Guardsman Pro package has additional features activated that let security operators capture and store thermal images and video.

- Thermal color palettes: Choose between three built-in color display options with the push of a button to bring out scene detail you might otherwise miss
- Still image capture: Capture and store thermal images in JPEG format on a removable SD card with the touch of a button. (A 1 GB SD card will hold up to 20,000 320 x 240 JPEG images)
- Video storage: Record thermal video in MPEG-4 format to the SD card with the push of a button.
- Real-time clock: Encodes the date and time on captured still images and video.

OPTIONS:

Tactical Carrying Pouch: Rugged bag for transport and field use (standard on Pro model)

2x Optical Extender for 24° model: Attachable lens doubles the range performance when needed, without sacrificing the situational awareness benefits of the wide field of view lens

The Guardsman thermal night vision camera is built and supported by FLIR Systems, the world leader in thermal imaging technology. With more thermal imagers deployed around the globe than every other manufacturer, FLIR is the world's most trusted name in thermal imaging for security applications.

See current specifications and watch the Guardsman video at www.flir.com.

SPECS

LENS CHOICES

- FOV
- FOV (w/Optional 2x Extender)
- Start up from stand-by
- Waveband
- Thermal Sensitivity
- Focus, Zoom
- Detector Type
- Image Processing
- Focus
- Frame Rate

IMAGE PRESENTATION

- Built-In Display
- Video Output

POWER

- Battery Type
- Battery Life Operating (Stand-By)

ENVIRONMENTAL

- Rating
- Operating Temp.
- Drop

PHYSICAL

- Weight (incl. lens)
- Size (L x W x H)



HG-324

24° x 18°
12° x 9°



HG-307

7° x 5°
N/A

< 1.5 seconds
7.5 - 13.5 μm
<50 mK @ f/1.0
Manual, 2x E-zoom
320 x 240 VOx Microbolometer
FLIR Proprietary Digital Detail Enhancement
Manual
NTSC: 30 Hz; PAL 25 Hz
Color VGA LCD Display
NTSC or PAL composite video; RCA jack
4 AA Batteries; NiMH, Li-Ion, or Alkaline
>5 Hours On NiMH batteries (120 hours on NiMH batteries)

BASIC MODEL (Viewer Only) Includes:
Guardzman Handheld Thermal Camera (with choice of lens), Hot Shoe Charging & Video Output Attachment, 4 Rechargeable AA Batteries, AC Power Adapter/Charger, Neck Lanyard, Car Adapter/Charger, Manual, USB Cable, Video Output Cable

PRO MODEL (Video and Still Image Storage)
Everything in Basic Model, plus Tactical Carrying Pouch, image save function, video save function with real-time stamp

RANGE PERFORMANCE	24° LENS / 12° LENS (2x EXTENDER)	7° LENS
Detect Man (1.8 m x 0.5 m)	~1,480' / 2,890'	~4,750'
Recognize Man	~370' / 720'	~1,210'
Detect Vehicle (2.3 m x 2.3 m)	~4,200' / 1.5 mi	~2.4 mi
Recognize Vehicle	~1,080' / 2,100'	~3,410'

Actual range may vary depending on camera set-up, environmental conditions, user experience, and type of display use.
All specifications are subject to change without notice. Visit flir.com for the most up-to-date specifications.

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Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.
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