

PTZ-35MS & PTZ-50MS

Thermal Security Cameras



PTZ-35MS AND PTZ-50MS - MULTI-SENSOR IMAGING SYSTEMS

Multi-sensor thermal camera systems for 24/7 security applications

The best thermal security cameras in the business

The PTZ-35 and -50 Multi-Sensor systems are compact, multi-sensor thermal and visible-light imaging systems with an integrated pan/tilt mechanism. Whether deployed as stand-alone sensors, or integrated into a security network, the PTZ-35 and PTZ-50 provide 24/7 threat detection.



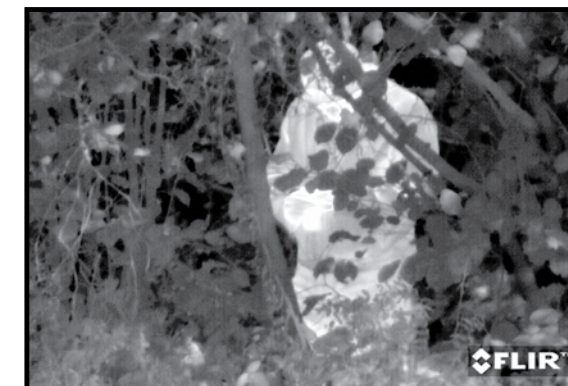
- 35mm or 50mm fixed field-of-view (FOV) thermal cameras coupled with continuous zoom daylight TV
- Digital Detail Enhancement for optimal thermal image quality
- Detect man-sized threats out to 3,500 feet away in total darkness
- Control with stand-alone controller, or Pelco D serial controller
- Composite video or Ethernet video output available for use with a broad range video management and display systems
- Fast, precise pan/tilt
- All-weather construction
- Backed by FLIR – the world leader in thermal security cameras

WHY THERMAL?

Thermal security cameras compliment and complete your existing security camera network

You won't believe what you haven't been seeing

Today's security professional must detect and counter the threats arrayed against their valuable assets and personnel – thermal security cameras are the most effective tools for that job. Providing maximum image contrast, thermal cameras are the technology of choice for military security forces, made affordable for today's civilian security community by FLIR.



Thermal sees heat

Thermal security cameras make pictures from heat energy that is invisible to the naked eye. Everything in the color image below is giving off heat – even the ice cubes she is holding in her left hand, and the circle she traced on the wall with her right.



See day and night

Because everything generates heat, thermal security cameras can see as well at night as they can during the day. Cameras dependant on visible light are useless at night or in poor visibility without supplementary illumination from lights or lasers. Thermal security cameras overcome this problem by seeing heat, not light, so you're never in the dark.

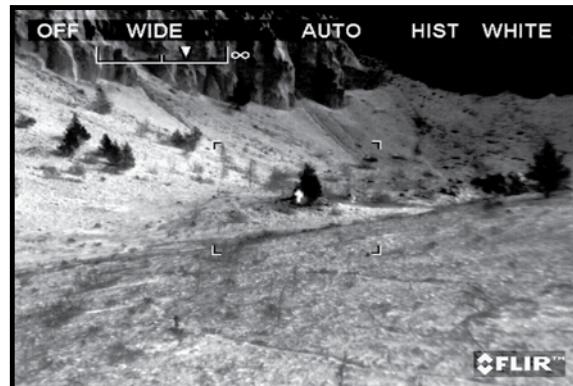


THERMAL & RANGE

Thermal security cameras see things from farther away – night or day – than comparable visible-light TV cameras

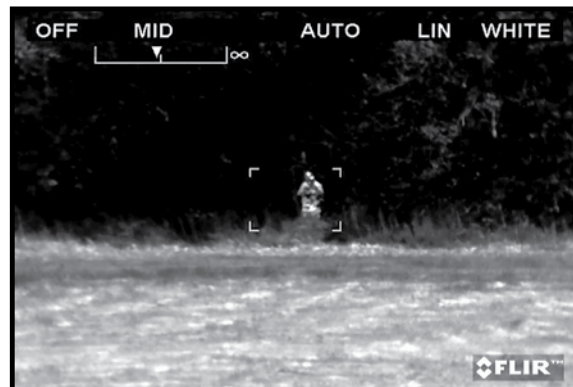
TV cameras are naturally range-limited

A conventional daylight/lowlight TV camera relies on scene contrast to detect a threat. That contrast, in turn, depends on the amount of light illuminating the threat, and the color contrast in the scene of interest. If a person is wearing clothes that allow him to blend into his background, or if there is not enough light to draw out a scene's contrast, a TV camera's ability to see a threat is drastically reduced.



Thermal cameras see what TV cameras don't

With a thermal camera, an intruder will normally appear warm against a cooler background, creating its own contrast regardless of camouflage, time of day, and available lighting. This improved contrast allows thermal cameras to provide better range performance than TV cameras – night and day, in good weather and bad.



PTZ-35MS AND PTZ-50MS THERMAL SECURITY CAMERAS

Installation Ready – easy to use, easy to mount

No special adjustment or fine-tuning required

FLIR's PTZ-35MS and PTZ-50MS thermal security cameras are ready to use right out of the box --- no focus or zoom adjustment needed. No one else makes cameras with such unsurpassed thermal image quality that are so easy to field.

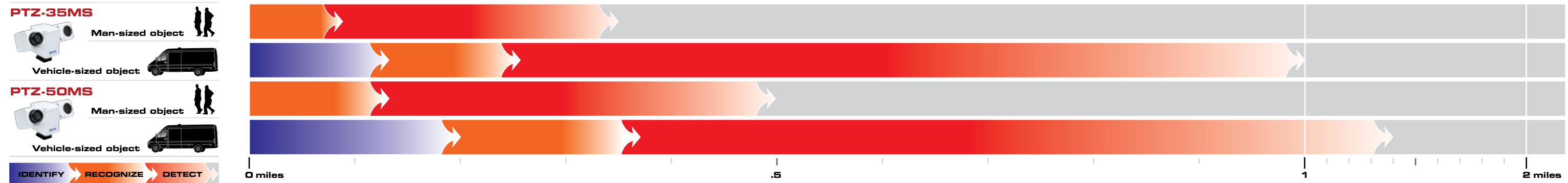


The Best Core Technology is the Easiest to Use

Just because something's high-tech, doesn't mean it has to be hard to use. Unlike poorly-designed thermal cameras whose lenses change focus when subjected to temperature changes, FLIR designed PTZ-35MS and PTZ-50MS thermal security cameras to maintain their sharp focus regardless of temperature changes. Turn it on and watch.



Range Chart This chart shows how far away the PTZ-35MS and PTZ-50MS can detect, recognize and identify humans and vehicles in infrared. These are approximate ranges; your actual performance may vary, based on a variety of environmental factors.





PTZ-35MS & PTZ-50MS

SYSTEM OVERVIEW

CAMERA PERFORMANCE

Thermal Camera

Sensor Type	320x240 VOx uncooled microbolometer
Spectral Range	7.5 - 13.5µm
Fields-of-View:	
PTZ-35 MS	20° x 15°
PTZ-50 MS	14° x 10°
Focus	Automatic
Electronic Zoom	2x
Image Processing	Digital Detail Enhancement (DDE); Automatic Gain Control (AGC)

Visible-light Camera

Imager	Sony FCB EX-980S
Field-of-View Range	46° (h) to 1.6° (h) @ f3.8

SYSTEM SPECIFICATIONS

Mechanical (PTZ Only)

Field-of-Regard	+/- 200° Pan; +/- 60° Tilt
Pan/Tilt Slew Rate	160°/sec max Pan; 80°/sec max Tilt
Position Accuracy	1 mrad

System Features

Remote Control	RS-232 or -422; selected Pelco D commands
Automatic Heater?	Yes
Programmable Search	Pelco D pan/tilt/zoom controls
Pelco D Compliance	Selected commands

Image Presentation

Video Format	NTSC or PAL composite video
Connectors	Mil-C-32

Power

Requirement	24 VDC
Consumption	<50 W nominal @ 77°F

Environmental

Operating Temp.	-26°F to +131°F (-32°C to +55°C)
Storage Temp.	-40°F to +185°F (-40°C to +85°C)
Automatic Window Defrost?	Yes
MIL-Std 810E	Rain, Sand/Dust, Shock, Vibration
Encapsulation	IP66

Physical

Weight	<11lb (4.9 kg)
Size	12 x 9 in (305 x 229 mm)
Mounting	1/4-20, 4-hole pattern

Interfaces

TCP/IP	Optional
RS-232	Optional; command and control
RS-422	Command and control

Standard Equipment

PTZ-35 MS or PTZ-50 MS, Hot Shoe with 12 m cable, break-out cable to standard connector, lab power supply, user interface, Operator Manual

ABOUT FLIR SYSTEMS

FLIR is the world leader in thermal imaging technology

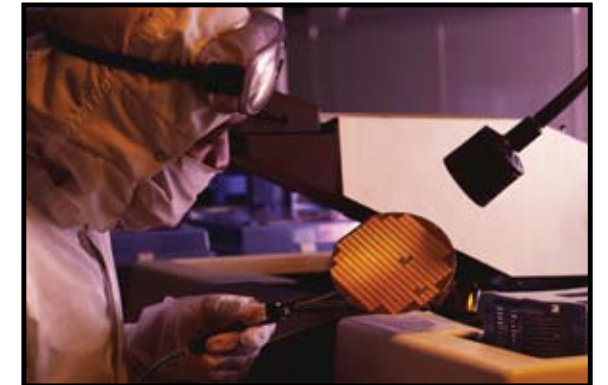
FLIR legacy

With thousands of systems fielded in military, scientific, law enforcement and security applications, FLIR offers unmatched experience and reliability to the security market. FLIR brings military hardened products to the security market at commercial prices.



Vertically integrated

FLIR designs and manufactures all of the critical technology inside our products, including detectors and special lenses, and it's all made here in the US. This ensures fast maintenance and support.



Volume production

FLIR thermal security cameras are mass-produced and can be found in a variety of applications including automotive vision enhancement, fire fighting and aviation. Our volume production allows us to extend lower prices to our customers.



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