

PT-602CZ HD



Crisp image detail gives you optimum clarity to identify and address any number of security threats

FLIRPT-602CZ HD

High Performance Cooled Mid-Wave Pan/Tilt Multi-Sensor thermal camera

The PT-602CZ HD features a high-performance 14X optical zoom thermal lens with autofocus, bringing a new level of performance to the popular PT-Series line of thermal security cameras. The PT-602CZ HD uses a cooled mid-wave infrared detector with 640x512 resolution to create sharp thermal images of small details in challenging conditions and at long ranges. Equipped with powerful optics that combine excellent situational awareness with impressive continuous zoom capability, the PT-602CZ HD is a flexible imaging solution for the most demanding applications.

In addition to the thermal imaging, the PT-602CZ HD has high quality, visible-light imaging. Offering 1080p high definition resolution, the camera's visible light sensor introduces outstanding low light performance, shutter WDR and equipped with 30X optical zoom with auto-focus.

The PT-602CZ-HD integrates with FLIR's United VMS (Latitude, Horizon, Meridian), providing a seamless user experience. Users gain a full set of viewing and control options including the all new dual-sensor viewing mode, fully programmable preset tour and alarm functions.

KEY FEATURES

- Simultaneous IP and analog video outputs thermal and visible-light along
 with IP and serial control interfaces for easy integration into IP or analog
 systems; use them in an existing analog environment, and migrate easily to
 a future IP network
- Sharper thermal images and greater scene detail than ever before
- Improved threat detection and alarm assessment capabilities
- Long-range threat detection see smaller details from farther away
- Continuous zoom allowing to zoom-in on targets without losing sight
- Autofocus keeping images sharp when changing the zoom level
- Wider fields of view improving coverage without compromising range performance; optimizes coverage efficiency while lowering overall installation cost
- Open IP standards for plug-and-play integration with 3rd party VMSs and devices; ONVIF compliant
- Multiple simultaneous channels of streaming digital video available in H.264, or M-JPEG formats



Specifications

Array Format (NTSC)	Thermal Camera Sp	ere	
Detector Type Effective Resolution Thermal Frame Rate Optical Characteristics Optical Characteristics Composite Video Composite Video Composite Video Composite Video Composite Video Auto AGC, Dynamic Detail Enhancement (DDE), Sensitivity Default, Presets and User definable to insure optimal image quality longuation External AGC Region of Interest (ROI) Image Uniformity Optimization External Analytics Compatible External Analytics Compatible External Analytics Compatible External Analytics Compatible Full Robk Network Supported Protocols Pan Angle / Speed Full Robe Full Ro	·		
Effective Resolution Thermal Frame Rate Optical Characteristics E-Zoom Spectral Range Focus Range Continuously Adjustable Spectral Range Athermalized, Focus-Free Video Composite Video NTSC or PAL Video Composite Video NTSC or PAL Video Composite Video NTSC or PAL Two independent channels of H.264 & M-JPEG for each sensor Thermal Image Settings Auto AGC, Dynamic Detail Enhancement (DDE), Sensitivity Settings Thermal AGC Region of Interest (ROI) Image Uniformity Optimization System Integration Ethernet Yes Serial Control Interfaces External Analytics Compatible FLIR SDK Network APIs FLIR CGI ONVIF Profile S Network Network APIs IPV4, HTTP, UPNP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP Pan/Tilt Performance Pan Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt A	,		
Thermal Frame Rate NTSC: 30 Hz PAL: 25 Hz 14x continuous optical zoom 28° x 21° W FOV 2° x 1.5° N FOV 19mm – 275mm, F 5.5 with High Durability coating E-Zoom Continuously Adjustable Spectral Range Focus Range Athermalized, Focus-Free Video Composite Video NTSC or PAL Video Compression Two independent channels of H.264 & M-JPEG for each sensor Streaming Resolution Thermal: OVGA to VGA Visible: VGA to HD Thermal AGC Region of Interest (ROI) Image Uniformity Optimization System Integration Ethernet Serial Control Interfaces External Analytics Compatible Pan/Tilt Performance Pan Angle / Speed Pan/Porgrammable Presets General Weight Aus Consumption Panyer		·	
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28° x 21° W FOV 2° x 1.5° N FOV 19mm – 275mm, F4 5.5 with High Durability coating	Thermal Frame Rate	PAL: 25 Hz	
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Supported Protocols	Serial Control Interfaces	RS-232/-422; Pelco D, Bosch	
FLIR CG ONVIF Profile S	External Analytics Compatible	Yes	
ONVIF Profile S Network Supported Protocols IPV4, HTTP, UPnP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP Pan/Tilt Performance Pan Angle / Speed Continuous 360°; 0.1° to 60°/sec Tilt Angle / Speed +90° to -90°; 0.1° to 30°/sec Programmable Presets 256 General Weight 40.8 lbs. (18.5 kg) Dimensions (L, W, H) 13.7, 18.4, 12.8" (348, 467,326 mm) Input Voltage 24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	Network APIs	FLIR SDK	
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Tilt Angle / Speed +90° to -90°; 0.1° to 30°/sec Programmable Presets 256 General Weight 40.8 lbs. (18.5 kg) Dimensions (L, W, H) 13.7, 18.4, 12.8" (348, 467,326 mm) Input Voltage 24 VAC (21-30 VAC) Power Consumption 24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	Pan Angle / Speed	Continuous 360°; 0.1° to 60°/sec	
Programmable Presets 256 General	Tilt Angle / Speed		
Weight 40.8 lbs. (18.5 kg) Dimensions (L, W, H) 13.7, 18.4, 12.8" (348, 467,326 mm) Input Voltage 24 VAC (21-30 VAC) Power Consumption 24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	Programmable Presets		
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Power Consumption 24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	Dimensions (L, W, H)	13.7, 18.4, 12.8" (348, 467,326 mm)	
Power Consumption 24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	Input Voltage		
	Power Consumption	24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters)	

Environmental			
IP Rating (Dust & Water Ingress)	IP66		
Operating Temperature Range	-32°C to 55°C (-26° F to 131°F) cold start		
Storage Temperature Range	-40°C to 71°C (-40°F to 160°F)		
Humidity	0-95% relative		
Shock	MIL-STD-810F "Transportation"		
Vibe	IEC 60068-2-27		
De-Icing / Anti-Icing	MIL-STD-810F, Method 521.1; - De-Icing		
Compliance & Certifications			
FCC Part 15 (Subpart B, class A)			
CE Marked			
RoHS			
IP66			
ONVIF Profile S			
WEEE			
Visible Light Camera			
Sensor Type	Full HD 1080p 1/2.8-type Exmor R CMOS		
Sensor illumination	Back Light Compensation		
Low light sensitivity	Color: 0.01 lx (F1.6, AGC on, 1/30s)		
Noise reduction	Yes (6 steps)		
WDR	120dB		
F/#	F1.6 to F4.7		
Lens Field of View	63.7° (wide end) to 2.3° (tele end)		
Focal Length	4.3 mm (wide) to 129.0 mm (tele)		
Zoom	30X optical zoom with auto-focus and 12X digital zoom		

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