



PT-602CZ HD

FLIR **PT-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.



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

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

Thermal Camera Specs	
Array Format (NTSC)	640 × 512
Detector Type	Cooled Focal Plane array
Effective Resolution	327,680
Thermal Frame Rate	NTSC: 30 Hz PAL: 25 Hz
Optical Characteristics	14x continuous optical zoom 28° × 21° W FOV 2° × 1.5° N FOV 19mm – 275mm, F# 5.5 with High Durability coating
E-Zoom	Continuously Adjustable
Spectral Range	3 μm to 5 μm
Focus Range	Athermalized, Focus-Free
Video	
Composite Video NTSC or PAL	Yes: Hybrid IP & Analog (one for visible & one for thermal)
Video Compression	Two independent channels of H.264 & M-JPEG for each sensor
Streaming Resolution	Thermal: QVGA to VGA Visible: VGA to HD
Thermal Image Settings	Auto AGC, Dynamic Detail Enhancement (DDE), Sensitivity
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to insure optimal image quality on subjects of interest
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers
System Integration	
Ethernet	Yes
Serial Control Interfaces	RS-232/422; Pelco D, Bosch
External Analytics Compatible	Yes
Network APIs	FLIR SDK FLIR CGI 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 VDC (21-30 VDC) 24 VAC (21-30 VAC)
Power Consumption	24 VAC: 70VA (max w/o heaters); 260 VA (max w/heaters) 24 VDC: 60 W (max w/o heaters); 203 W (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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