FLIR

FLIR Triton™
PT-602CZ HD

The PT-602CZ HD brings a new level of performance to the popular Triton family of thermal security cameras. Featuring a 14x optical zoom lens with autofocus, the cooled 640 × 512 mid-wave IR detector in the PT-602CZ HD produces sharp, long-range thermal imaging. This high-performance thermal camera offers superior vision in complete darkness and challenging environments while a 1080p visible camera captures key details. Powerful optics on the PT-602CZ HD combine excellent situational awareness with impressive continuous zoom capability for a versatile solution in the most demanding applications.

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IMPROVED THREAT DETECTION
The Triton PT-602CZ HD offers long-range imaging and alarm assessment for early threat detection.

- 4-5 km human recognition
- 14x thermal imaging optical zoom
- 640 × 480 thermal resolution
- 30x visible camera optical zoom

PRECISION PAN/TILT
Radar integration and slew-to-cue operation allow constant contact with targets while wider fields of view improve coverage.

- Continuous 360° panning
- 28° × 21° WFOV and 2° × 1.5° NFOV
- 60°/sec panning for high-speed tracking

EASY INTEGRATION
Seamlessly integrate into existing IP networks and analog video environments or use as a standalone unit.

- ONVIF Profile S compliant
- Open IP standards for plug-and-play integration, IP and serial control interfaces
- Thermal and visible IP and analog video outputs

SPECIFICATIONS

Thermal Camera

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	not supported
Spectral Range	3 µm to 5 µm

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, HTTPS, IEEE 802.1X

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

Cyber Security

IEEE 802.1x
TLS/HTTPS
User authentication
Access control via firewall

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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