\$FLIR



HD VISIBLE AND THERMAL PAN/TILT

FLIR Triton[™] PT-Series HD

The FLIR Triton™ PT-Series HD is our most advanced dual-sensor security system, combining a cooled or uncooled thermal sensor with 640×480 resolution, a 1080p HD visible-light imaging sensor, and a high speed, precision pan/tilt system. The Triton PT-Series HD integrates easily with FLIR United VMS 8.0, as well as other major third party video management systems, making it an extremely versatile solution for critical infrastructure protection in total darkness, bright sun, and adverse conditions.

www.flir.com/pt-series



SUPERIOR IMAGE QUALITY

PT-Series HD provides unmatched perimeter protection, regardless of lighting conditions.

- 640x480 resolution thermal camera sees clearly in complete darkness or bright sunlight, through smoke, dust and light fog
- High-performance thermal lens with 4X optical zoom and auto-focus
- 1080p HD camera with 30X optical zoom and outstanding low light performance



RUGGED HOUSING

A weather-resistant design withstands harsh environments, reducing maintenance time.

- Deicing and de-fogging capabilities
- Sun-safe VOx uncooled thermal sensor technology
- Rated IP66 for dust and water ingress
- Vandal-resistant



DESIGNED FOR SYSTEM INTEGRATION

Enhanced capabilities are enabled when controlled using FLIR United VMS

- Integrates with FLIR's United VMS for such options as a fully-programmable preset tour, dual-sensor viewing mode, and alarm functions.
- Open IP standards for plug-and-play integration with 3rd party VMSs and devices
- Simultaneous IP and analog outputs of thermal and visible-light video
- ONVIF compliant

SPECIFICATIONS

Thermal Camera Specs				
Array Format (NTSC)	640×480			
Detector Type	Long-Life, Uncooled VOx Microbolometer			
Effective Resolution	307,200			
Pixel Pitch	17 µm			
Thermal Frame Rate	NTSC: 30 Hz PAL: 25 Hz / 8.3 Hz			
Optical Characteristics	Model PT-644 HD PT-625 HD PT-617 HD PT-612 HD PT-608 HD PT-606Z HD	FOV 44°×36° 25°×18° 17°×14° 12°×10° 8.6°×6.6° Uncooled continuous zoom 24° to 6°	Focal Length 13 mm 25 mm 35 mm 50 mm 75 mm 26-105 mm	
E-Zoom	Continuous E-Zoom to 4×			
Spectral Range	7.5 µm to 13.5 µm			
Focus Range	Athermalized, Focus-Free			
Sensitivity	<35mK @ 25c F# 1.0			
Video	1			
Composite Video NTSC or PAL	Yes: Hybrid IP & Analog			
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	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, Bonjour, 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		
Operating Temperature Range	-40°C to 70°C	
Weight	~37 lb (16.8 kg); Configuration Dependent	
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: 85 VA (max w/o heaters) 215 VA (max w/heaters) 24 VDC: 65 W (max w/o heaters) 195 W (max w/heaters)	
Environmental		
IP Rating (Dust & Water Ingress)	IP66	
Operating Temperature Range	-40°C to 70°C cold start	
Storage Temperature Range	-55°C to 85°C	
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 of 3/6mm pending model	
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Compliance & Certifications

FCC Part 15 (Subpart B, class A) CE Marked RoHS 1966 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	

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

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