FLIR PT-Series AI SR

Visible 4K and Thermal Pan/Tilt Short Range Security Camera

Key Features

- <25 mK NETD uncooled thermal sensor with 640 × 512 resolution and optional 4x continuous zoom
- 4K visible-light imaging sensor with 25x optical zoom and outstanding low light performance
- FLIR Fusion AI video analytics on the edge, for reliable detection, classification of human and vehicle targets at distance
- Seamlessly geo-track targets using FLIR Nexus® compatible devices
- High speed, precision pan/tilt system with 0.2° pointing accuracy

Main Applications

- Continuous 360° wide area outdoor surveillance for distances up to 1000 meters
- Perimeter protection and intrusion detection at commercial sites and critical infrastructure
- Object classification for radar alarms

SPECIFICATIONS

Overview			
Array Format	640 × 512, long-life, uncooled VOx microbolometer		
Effective Resolution	327,680 pixels (640 × 512)		
Pixel Pitch	17 µm		
Thermal Frame Rate	30 Hz or 9 Hz		
Optical Characteristics	Model PT-644 AI PT-625 AI PT-617 AI PT-612 AI PT-608 AI PT-606 AI PT-606Z AI	FOV 44° × 18° 25° × 18° 17° × 14° 12° × 10° 8.6° × 6.6° 6.2° × 5.0° continuous zoom, 24° to 6°	Focal Length, F# 13 mm F/1.0 25 mm F/1.1 35 mm F/1.1 50 mm F/1.2 75 mm F/1.1 100 mm F/1.6 26 to 105 mm F/1.6
Spectral Range	7.5 µm to 13.5 µm		
Focus Range	Athermalized, Focus Free		
Sensitivity	<25 mK at 25°C, F/1.0		

Video	
Video Compression	Two independent channels of H.265, H.264 & M-JPEG for each sensor
Streaming Resolution	Thermal: VGA (640 × 512)
Thermal Image Settings	Auto AGC, Dynamic Detail Enhancement (DDE), Sensitivity
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to ensure optimal image quality on subjects of interest
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers

System Integration	
Ethernet	Yes
External Analytics Compatible	Yes

Network APIs	Nexus, ONVIF Profile S, G, T

Network	
Supported Protocols	IPv4, HTTP, HTTPS, UPnP, DNS,NTP, RTSP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X,

Mechanical	
Pan Angle / Speed	Continuous 360°; 0.1° to 60°/sec
Tilt Angle / Speed	90° to -90°; 0.1° to 30°/sec
Programmable Presets	256

Physical	
Unit Weight	~37 lb (16.8 kg): configuration dependent
Dimensions (L × W × H)	348 × 467 × 326 mm (13.7 × 18.4 × 12.8 in)

General	
Input Voltage	24 V DC: 65 W (max w/o heaters) 195 W (max w/ heaters)

Environmental	
IP Rating (Dust & Water Ingress)	IP66
Opperating Temperature Range	-40°C to 70°C (-40°F to 158°) cold start
Storage Temperature Range	-55°C to 85°C (-67°F to -121°F)
Humidity	0% to 95% relative
Shock	MIL-STD-810F Transportation
Vibration	IEC 60068-2-27

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

For technical or sales support, please visit:
www.flir.com/about/general-inquiries

SPECIFICATIONS, CONT.

De-Icing / Anti-icing	MIL-STD-810F, Method 521.1; De-Icing
Vandalism	IK10 except for windows
Compliance & Certifications	
FCC, CE Marked, RoHS, IP66, ONVIF Profile S, G, T, WEEE	
Visible Light Camera	
Sensor Type	4K (2160p), 1/1.8-type STARVIS II CMOS
Sensor Illumination	Back Light Compensation
Low Light Sensitivity	Color: 0.028 lx (F1.6, AGC on, 1/30s)
Noise Reduction	Yes (configurable 3D/2D)
WDR	120 dB
F/#	F/1.6 to F/4.8
Lens Fields of View	59.0° (wide) to 2.36° (tele)
Focal Length	6.5 mm (wide) to 162.5 mm (tele)
Zoom	25x optical zoom
Wiper	Included as default
Image Stabilization	Optical stabilization
Cyber Security	
IEEE 802.1x TLS/HTTPS User Authentication Access control via firewall User credentials with policy enforcement Digest Authentication	

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ORDERING INFORMATION

Model	Description
4119468	Adapter Plate - PT-Series
324-0005-00	PT-Series Hard Case w/Foam
308-0289-10-00	Integrated System Cable
500-1110-00	Wall Mount Assembly
500-1116-00	Large Pole Adapter Assembly - PT-Series
500-1117-00	Pedestal Mount Assembly - PT-Series
500-1118-00	PT-Series Corner Mount Assembly

NDAA Compliant
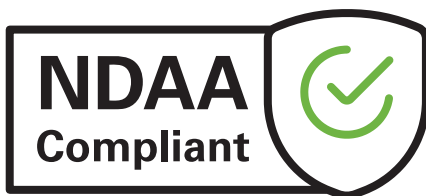
For more information about FLIR PT-Series AI SR, please scan or visit:

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