PT-SERIES

Pan/Tilt Thermal Security Cameras with IP *and* Analog Functionality

CUTTING EDGE PAN/TILT, MULTI-SENSOR THERMAL SECURITY CAMERAS

FLIR's PT-Series of high-performance, multi-sensor pan/tilt cameras bring thermal and visible-light imaging together in a system that gives you video and control over both IP *and* analog networks. The PT-Series' precision pan/tilt mechanism gives you accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functions. PT-Series cameras define a new standard of performance with five models that provide full 640 × 480 thermal resolution.

BENEFITS OF 640 × 480 RESOLUTION:

High-resolution PT-Series cameras have up to 16-times as many pixels as their lower-resolution counterparts, giving you:

- Sharper thermal images that provide greater scene detail; improves threat detection and alarm assessment capabilities
- Long-range threat detection; see smaller details from farther away
- Enhanced analytics performance; gives you more reliable feedback with fewer nuisance alarms
- Wider fields of view improve coverage without compromising range performance; optimize coverage efficiency while lowering overall installation cost

BENEFITS OF PT-SERIES THERMAL SECURITY CAMERAS:

- Simultaneous IP and analog video outputs – thermal and visible-light – along with IP and serial control interfaces for easy integration into IP or analog networks; use them in an existing analog environment, and migrate easily to a future IP network
- Sun-safe VOx uncooled thermal sensor technology; looking directly at the sun won't damage FLIR uncooled thermal security cameras
- Exchangeable camera cassettes allow for quick upgrade or repair of sensors and optics
- Open IP standards for plug-and-play integration; ONVIF compliant
- Streaming digital video available in H.264, MPEG-4, or M-JPEG formats

Thermal and visible-light cameras work together to provide threat detection and situational awareness

❖FLIR

PT-SERIES

Camera Platform Type	PTZ Multi-Sensor	PTZ Multi-Sensor	PTZ Multi-Sensor

THERMAL CAMERA SPECS

Array Format (NTSC)	160 × 120	320 × 240	640 × 480
Detector Type	Long-Life, Uncooled VOx Microbolometer	Long-Life, Uncooled VOx Microbolometer	Long-Life, Uncooled VOx Microbolometer
Effective Resolution	19,200	76,800	307,200
Pixel Pitch	25 µm	25 µm	17 µm
Field Of View	24° × 20° (PT-124; 9 mm) 17° × 14° (PT-117; 13 mm) 12° × 10° (PT-112; 19 mm)	48° × 39° (PT-348; 9 mm) 34° × 28° (PT-334; 13 mm) 24° × 19° (PT-324; 19 mm) 13 °× 10° (PT-313; 35 mm) 7° × 5° (PT-307; 65 mm) 4.6° × 3.7° (PT-304; 100 mm)	45° × 37° (PT-645; 13 mm) 25° × 20° (PT-625; 25 mm) 18° × 14° (PT-618; 35 mm) 12° × 10° (PT-612; 50 mm) 10° × 8° (PT-610; 65 mm) 6.2° × 5° (PT-606; 100 mm)
Zoom	2x E-zoom	2x & 4x E-zoom	2x & 4x E-zoom
Spectral Range	7.5 µm to 13.5 µm	7.5 µm to 13.5 µm	7.5 µm to 13.5 µm
Focus Range	Athermalized, focus-free	Athermalized, focus-free	Athermalized, focus-free
Frame Rate	NTSC: 30 Hz; PAL 25 Hz	NTSC: 30 Hz; PAL 25 Hz	NTSC: 30 Hz; PAL 25 Hz
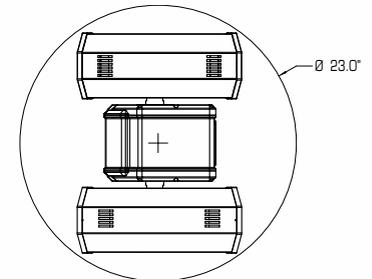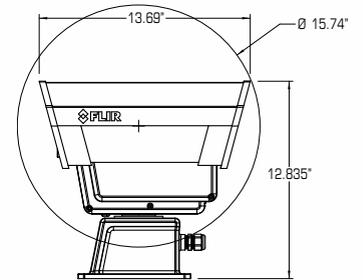
OUTPUTS

Composite Video NTSC or PAL	Standard	Standard	Standard
Video Over Ethernet	Two independent channels of streaming MPEG-4, H.264, or M-JPEG for each of two cameras	Two independent channels of streaming MPEG-4, H.264, or M-JPEG for each of two cameras	Two independent channels of streaming MPEG-4, H.264, or M-JPEG for each of two cameras

CONTROL

Point To Point (stand alone)	Standard	Standard	Standard
Ethernet	Standard	Standard	Standard
Serial	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch
Network Enabled	Standard	Standard	Standard

PAN/TILT PERFORMANCE

Pan Angle/Speed	Continuous 360°; 0.1° to 60°/sec	Continuous 360°; 0.1° to 60°/sec	Continuous 360°; 0.1° to 60°/sec
Tilt Angle/Speed	+90° to -90°; 0.1° to 30°/sec	+90° to -90°; 0.1° to 30°/sec	+90° to -90°; 0.1° to 30°/sec

GENERAL *

Weight	~46 lb (configuration dependent)	~46 lb (configuration dependent)	~46 lb (configuration dependent)
Dimensions (L,W,H)	13.7" × 18.4" × 12.8"	13.7" × 18.4" × 12.8"	13.7" × 18.4" × 12.8"
Input Voltage	21-30 VAC 21-30 VDC	21-30 VAC 21-30 VDC	21-30 VAC 21-30 VDC
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)	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)	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)

* Consult installation manual for complete details

DAY/NIGHT CCD CAMERA

	Sony FCB-EX1010	Sony FCB-EX1010	Sony FCB-EX1010
Sensor Type	1/4" Exview HAD CCD	1/4" Exview HAD CCD	1/4" Exview HAD CCD
Lens Field Of View	57.8° (h) to 1.7° (h)	57.8° (h) to 1.7° (h)	57.8° (h) to 1.7° (h)
Focal Length	3.4 mm to 122.4 mm	3.4 mm to 122.4 mm	3.4 mm to 122.4 mm
Zoom	36× Optical zoom, 12× E-zoom	36× Optical zoom, 12× E-zoom	36× Optical zoom, 12× E-zoom
F/#	1.6 to 4.5	1.6 to 4.5	1.6 to 4.5
Effective pixels (NTSC)	380,000	380,000	380,000

Dimensional drawings: 13.69", Ø 15.74", 12.835", Ø 23.0"

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