PT-SERIES

FLIR
PT-SERIES

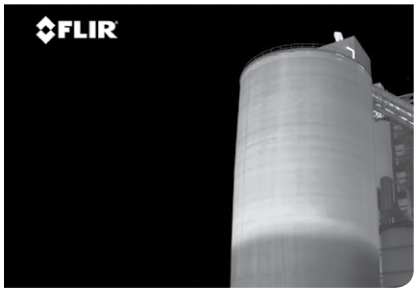
High Performance Pan/Tilt Multi-Sensor Thermal Cameras

FLIR's PT-Series brings 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 with full WDR Thermal video.

Designed for high performance, easy installation, and long-term reliability, PT-Series cameras give you the image detail needed for optimal threat detection capability and peak analytics performance - even in challenging imaging environments.

Because FLIR understands that you need cameras for the real world, PT-Series cameras are qualified beyond industry standard for survivability, and are backed by FLIR's unparalleled 2-year system warranty and 10-year detector warranty.



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 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
- All 640 x 480 resolution products are based on FLIR's 17-micron pixel pitch arrays, the most advanced uncooled detectors available on the commercial market
- Open IP standards for plug-and-play integration; ONVIF compliant
- Multiple simultaneous channels of streaming digital video available in H.264, MPEG-4, or M-JPEG formats

Specifications

Camera Model	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 VO× Microbolometer	Long-Life, Uncooled VO× Microbolometer	Long-Life, Uncooled VO× 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	2× E-zoom	2× & 4× E-zoom	2× & 4× 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
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)	Yes	Yes	Yes
Ethernet	Yes	Yes	Yes
Serial	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch
Network Enabled	Yes	Yes	Yes
Software Developer's Kit	Option	Option	Option
External Analytics Compatible	Yes	Yes	Yes
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 70°/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
Programmable presets	128	128	128
General			
Weight	~37 lb (configuration dependent)	~37 lb (configuration dependent)	~37 lb (configuration dependent)
Dimensions (L,W,H)	13.7" × 18.4" × 12.8" (348 mm × 467 mm × 326 mm)	13.7" × 18.4" × 12.8" (348 mm × 467 mm × 326 mm)	13.7" × 18.4" × 12.8" (348 mm × 467 mm × 326 mm)
Input Voltage	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)
Power Consumption (Consult product manuals for details of power requirements)	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)
Visible Light Camera	**Sony FCB-EX1010**	**Sony FCB-EX1010**	**Sony FCB-EX1010**
Sensor Type	1/4" Exview HAD CCD		
Lens Field of View	57.8° (h) to 1.7° (h)		
Focal Length	3.4 mm to 122.4 mm		
Zoom	36× Optical zoom, 12× E-zoom		
F/#	1.6 to 4.5		
Effective pixels (NTSC)	380,000	380,000	380,000

SANTA BARBARA

FLIR Systems, Inc.
70 Castilian Drive
Goleta, CA 93117
USA
PH: +1 805.690.5097

PORTLAND
Corporate Headquarters
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

BELGIUM

FLIR Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

CHINA – SHANGHAI

FLIR Systems, Co., Ltd.
K301-302, No.26 Lane
168, Daduhe Road,
Putuo District, Shanghai
200062,P.R.China
PH: +86-21-5169 7628

www.flir.com
NASDAQ: FLIR