Sarix[®] Thermal Enhanced 4 Camera Series



QVGA

The Sarix® Thermal Enhanced 4 Series enables sites to harness the power of intelligence-driven analytics and heat-sensing technology to identify threats beyond what is visible to the human eye. Protect your perimeter like never before, even in the most challenging conditions. Pelco Smart Analytics, powered by Motorola Solutions, automatically detects threats at distances over 300 m (980 ft) away. Using radiometric thermal imaging, the Sarix Thermal Enhanced measures temperature fluctuations to help identify and prevent hazardous situations, such as overheating equipment. The camera's superior long-range smart analytics detection and ability to concurrently trigger alerts based



Features

See Farther, Respond Faster

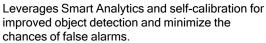


Identify critical events and classify objects during the day and night at distances over 300 m (980 ft) away.

Expedite real-time responses and forensic investigations with Pelco Smart Analytics.



Reduce False Positives





Multiple Lens Options

Select between a wide combination of lens and sensor resolutions for optimal coverage.



Outdoor Ready

IP66/67, IK10 and NEMA 4x rating provides a degree of protection against water and windblown dust. Continuously records between -40°C to 65°C (-40°F to 149°F).



Radiometric Analytics

Prevent operational safety hazards by proactively detecting abnormal temperature fluctuations within a predefined time and when the temperature exceeds or falls below a set value.



Enhanced Cybersecurity

Meet required security standards required with FIPS 140-2 compliant cryptography support, Secure Boot and integrated TPM.



Comply with Regulations

With 9 Hz and 30 Hz versions, maintain analytic performance while complying with export restrictions.



Open System

ONVIF Profile S, G, T and M compliance allows for easy integration between existing ONVIF structures, recording retrieval on the edge and crossfunctionality with third-party solutions.

ONVIF is a trademark of Onvif, Inc.





Specifications

Image Performance	QVGA	VGA		
Image Sensor	320 x 256 Uncooled VOx Microbolometer	640 x 512 Uncooled VOx Microbolometer		
Pixel Pitch	12µm			
Spectral Range	8μm to 14μm			
Aspect Ratio	5:4			
Imaging Rate	Up to 30 fps (-1 models up to 8.6 fps)	os)		
Dynamic Range	-40°C to 225°C (-40°F to 437°F) [may vary based on operating	g temperature]		
Resolution Scaling	320 x 256, can be scaled up to 640 x 512	640 x 512, can be scaled down to 320 x 256		
3D Noise Reduction Filter	Yes			
Sensitivity	NETD ≤50 mK (NETD ≤40 mK on 30 fps models when Frame	Averager feature is enabled)		
Thermal Palettes	White Hot, Black Hot, Rainbow, RainHC, IronBow, Lava, Artic, GlowBow, GradedFire, Hottest			
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal			

Lens ¹	~	SXTE4- QF09-EBT	~	~	~	~	O/ () _ (OXIL-	SXTE4- VF36-EBT
Lens	4.3 mm, F1.0	9.1 mm, F1.0	13.8 mm, F1.0	18.0 mm, F1.0	9.2 mm, F1.0	14.0 mm, F1.0	18.0 mm, F1.0	24.3 mm, F1.0	36.0 mm, F1.0
Angle of View (H x V)	50.0° x 40.0°	24.1° x 19.2°	16.0° x 12.8°	12.2° x 9.7°	49.9° x 39.3°	32.0° x 25.6°	24.3° x 19.5°	18.0° x 14.4°	12.2° x 9.8°

¹ Figures in this table also apply to -1 variants of each camera.

Image Control			
Image Compression Method	H.264, H.265, Motion JPEG, Pelco Smart Compression		
Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG		
Bandwidth Management	Pelco Smart Compression technology; Idle scene mode		
Motion Detection	Pixel and Classified Objects		
Tamper Detection	Yes		
Privacy Zones	Up to 64 Zones		
Audio Compression Method	Opus, G.711 PCM 8 kHz		

Network	
Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
ONVIF	ONVIF® compliant with Profile S, Profile T, Profile G, and Profile M
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, FIPS 140-2 L1 (with optional camera license), onboard FIPS 140-2 L3 certified TPM, Secure Boot
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP
Device Management Protocols	SNMP v2c, SNMP v3

Peripherals	
USB Port	USB 2.0

Peripherals	
Onboard Storage	microSD/microSDHC/microSDXC slot - video speed class card required. Class V10 or better recommended
External I/O Terminals	Alarm In, Alarm Out
Audio Input/Output	Line level input and output

Mechanica	₁ 11	~	~	~	SXTE4- QF18-EBT	SXRE4- VF09-EBT	SXRE4- VF14-EBT	SXTE4- VF18-EBT	SXTE4- VF24-EBT	SXTE4- VF36-EBT
Dimensions	(LxWxH)	312 mm x 12	26 mm x 104 m	nm; 12.3" x 5.0)" x 4.1" (includ	ding junction b	ox)			
Wajaht	Camera	1.45 kg (3.20 lbs)	1.44 kg (3.17 lbs)	1.47 kg (3.24 lbs)	1.45 kg (3.20 lbs)	1.48 kg (3.26 lbs)	1.47 kg (3.24 lbs)	1.47 kg (3.24 lbs)	1.47 kg (3.24 lbs)	1.55 kg (3.42 lbs)
Weight	Junction Box	0.47 kg (1.04	0.47 kg (1.04 lbs)							
Body Aluminum Sunshield Polycarbonate Finish Powder coat, close to Pantone 427C										
		Powder coat	Powder coat, close to Pantone 427C							
Adjustment Range		±175° pan, ±	±175° pan, ±90° tilt, ±175° azimuth							

¹ Figures in this table also apply to -1 variants of each camera.

Electrical	
Power Consumption	10W
Power Source	VDC: 12V +/- 10%, 9W min. VAC: 24V +/- 10%, 15VA min. PoE: IEEE802.3af Class 3 compliant
RTC Backup Battery	3V manganese lithium

Environmental		
Operating Temperature	-40 °C to +65 °C (-40 °F to 149 °F)	
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)	
Humidity	0 - 93% non-condensing	

Certifications	QVGA	VGA	
Certifications/Directives	UL, cUL, CE, UKCA, ROHS, RCM, BIS, NOM		
Safety	UL/CSA/IEC/EN 62368-1		
Environmental	- IEC/EN 60529 (IP66, IP67 rating) - IEC/EN 62262 Impact (IK10 rating) includes window impact on all models - Type 4X	- IEC/EN 60529 (IP66, IP67 rating) - IEC/EN 62262 Impact (IK10 rating) includes window impact only on models SXRE4-VF14-EBT, SXRE4-VF14-EBT-1, SXTE4-VF18-EBT, SXTE4-VF18-EBT-1, SXTE4-VF24-EBT, SXTE4-VF24-EBT-1 - Type 4X	
Electromagnetic Emissions			
Electromagnetic Immunity			
Warranty	5-year limited warranty. Extended warranty not available. See pelco.com/about/legal/warranty-terms.		

Analytics Specifications

Supported Video Analytic Events	
Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Tamper Detection	The event is triggered when the scene unexpectedly changes.

Radiometric Events	
Temperature Below, Above, Match Pre-Defined Value	The event is triggered when the temperature in the region of interest is below, above or match a pre-defined temperature value.
Temperature Changed	The event is triggered when the temperature changed a predefined value during a designated period of time.

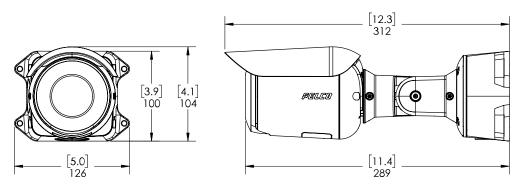
Classified Object Detection Range ¹	SXTE4- QF04-EBT	~	~			~		SXTE4- VF24-EBT	SXTE4- VF36-EBT
Focal Length	4.3 mm	9.1 mm	13.8 mm	18.0 mm	9.2 mm	14.0 mm	18.0 mm	24.3 mm	36.0 mm
Angle of View (H x V)	50.0° x 40.0°	24.1° x 19.2°	16.0° x 12.8°	12.2° x 9.7°	49.9° x 39.3°	32.0° x 25.6°	24.3° x 19.5°	18.0° x 14.4°	12.2° x 9.8°
Human	68 m (224')	120 m (393')	180 m (590')	220 m (722')	120 m (394')	165 m (541')	210 m (689')	260 m (853')	310 m (1017')
Vehicle	80 m (263')	130 m (426')	190 m (623')	225 m (739')	142 m (466')	185 m (607')	229 m (751')	275 m (902')	319 m (1047')

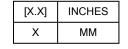
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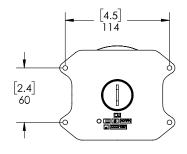
The detection ranges may vary in different weather conditions.

Outline Dimensions

Camera







Ordering Information

System Models

	Resolution	NETD	Lens	Pelco Smart Compression	Radiometric
SXTE4-QF04-EBT	320 x 256	< 50 mK	4.3 mm	✓	
SXTE4-QF09-EBT	320 x 256	< 50 mK	9.1 mm	✓	
SXTE4-QF13-EBT	320 x 256	< 50 mK	13.8 mm	✓	
SXTE4-QF18-EBT	320 x 256	< 50 mK	18.0 mm	✓	
SXRE4-VF09-EBT	640 x 512	< 50 mK	9.2 mm	✓	✓
SXRE4-VF14-EBT	640 x 512	< 50 mK	14.0 mm	✓	√
SXTE4-VF18-EBT	640 x 512	< 50 mK	18.0 mm	✓	
SXTE4-VF24-EBT	640 x 512	< 50 mK	24.3 mm	✓	
SXTE4-VF36-EBT	640 x 512	< 50 mK	36.0 mm	✓	
SXTE4-QF04-EBT-1	320 x 256	< 50 mK	4.3 mm	✓	
SXTE4-QF09-EBT-1	320 x 256	< 50 mK	9.1 mm	✓	
SXTE4-QF13-EBT-1	320 x 256	< 50 mK	13.8 mm	✓	
SXTE4-QF18-EBT-1	320 x 256	< 50 mK	18.0 mm	✓	
SXRE4-VF09-EBT-1	640 x 512	< 50 mK	9.2 mm	✓	✓
SXRE4-VF14-EBT-1	640 x 512	< 50 mK	14.0 mm	✓	✓
SXTE4-VF18-EBT-1	640 x 512	< 50 mK	18.0 mm	✓	
SXTE4-VF24-EBT-1	640 x 512	< 50 mK	24.3 mm	✓	
SXTE4-VF36-EBT-1	640 x 512	< 50 mK	36.0 mm	✓	

Accessories

PLMT-1001	Pole Mount for Sarix Thermal Enhanced 4 Camera			
CRNMT-1001	Corner Mount for Sarix Thermal Enhanced 4 Camera			
CAM-FIPS	Camera license to enable FIPS cryptographic module.			
USB-AC56-NA-MSI	USB WiFi Adapter (North America)			
USB-AC56-EU-MSI	USB WiFi Adapter (Europe)			

Support

Learn more and find additional documentation at <u>pelco.com</u> or email <u>support@pelco.com</u> for specific product support.





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