Sarix® Thermal Enhanced 4

VGA QVGA

Compliant with NDAA 2019 Section 889



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

Leverages Smart Analytics and self-calibration for improved object detection and minimize the chances of false alarms.

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 140-3 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 cross-functionality 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)	
Dynamic Range	-40°C to 225°C (-40°F to 437°F) [may vary based on operating 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-QF04-EBT-B	SXTE4-QF09-EBT-B	SXTE4-QF13-EBT-B	SXTE4-QF18-EBT-B	SXRE4-VF09-EBT-B	SXRE4-VF14-EBT-B	SXTE4-VF18-EBT-B	SXTE4-VF24-EBT-B	SXTE4-VF36-EBT-B
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
Electronic Image Stabilization	Yes

Network	
Network	100BASE-TX

Network

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 140-3 L1 (with optional camera license), onboard FIPS 140-3 L3 certified TPM, Secure Boot, Signed and encrypted firmware
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, QoS, DSCP, MQTT
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP, SRTP
Device Management Protocols	SNMP v2c, SNMP v3

Peripherals

USB Port	USB 2.0
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

Mechanical[1]		SXTE4-QF04-EBT-B	SXTE4-QF09-EBT-B	SXTE4-QF13-EBT-B	SXTE4-QF18-EBT-B	SXRE4-VF09-EBT-B	SXRE4-VF14-EBT-B	SXTE4-VF18-EBT-B	SXTE4-VF24-EBT-B	SXTE4-VF36-EBT-B
Dimensions (LxWxH)		312 mm x 126 mm x 104 mm; 12.3″ x 5.0″ x 4.1″ (including junction box)								
Weight	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)
	Junction Box	0.47 kg (1.04 lbs)								
Body		Aluminum								
Sunshield		Polycarbonate								
Finish		Powder coat, close to Pantone 427C								
Adjustment Range		±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

Sustainability

RoHS	RoHS in accordance with EU RoHS Directive 2011/65/ EU and 2015/863, and standard EN IEC 63000:2018
REACH	REACH in accordance with (EC) No 1907/2006
OECD	Screened for conflict minerals in accordance with OECD guidelines
SCIP UUID	For SCIP UUID, see echa.europa.eu/scip
ISO	ISO certifications in accordance with ISO 14001, ISO 45001, and ISO 9001 standards
WEEE	WEEE compliant with EU WEEE Directive 2012/19/EU and standard EN 50419
Global recycling initiatives	Global recycling initiatives supported for secure, end-of-life product processing, see https://www.motorolasolutions.com/en_us/about/environmental-social-corporate-governance-esg/environment.html
RBA	RBA membership and operations in alignment with Code of Conduct v8.0

Certifications	QVGA	VGA
Certifications/Directives	UL, cUL, CE, UKCA, ROHS, RCM, BIS, NOM, BSMI	
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	FCC Part 15 Subpart B (Class B), ICES-003 (Class B), EN 55032 (Class B), EN 61000-6-3, EN 61000-3-2, EN 61000-3-3	
Electromagnetic Immunity	EN 55035, EN 61000-6-1, EN 50130-4	
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. This event can be used to count objects.
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.
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[1]

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.
Radiometric Regions of Interest	The event system supports the creation of up to 20 radiometric ROIs to monitor distinct areas within the field of view.

[1] User selectable burnt-in video radiometry overlays.

Pelco Elevate Supported Features

Image Health	Detects incremental changes in the cameras view, such as position shifts or obstructions. Notifies users through ONVIF conformant events and summarized email reports.
Firmware Management	Schedule and deploy automatic firmware updates to multiple cameras, or update individual cameras on-demand.

Classified Object Detection Range[2]	SXTE4-QF04-EBT-B	SXTE4-QF09-EBT-B	SXTE4-QF13-EBT-B	SXTE4-QF18-EBT-B	SXrE4-VF09-EBT-B	SXrE4-VF14-EBT-B	SXTE4-VF18-EBT-B	SXTE4-VF24-EBT-B	SXTE4-VF36-EBT-B
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')

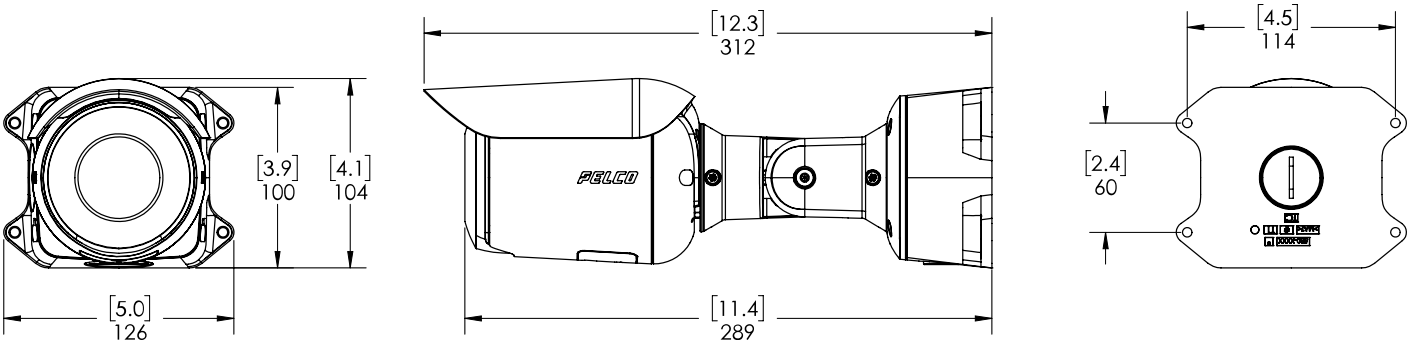
[2] Figures in this table also apply to -1 variants of each camera.

The detection ranges may vary in different weather conditions.

Outline Dimensions

[X.XX]	INCHES
X.X	MM

Camera



Ordering Information

System Models

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

*All 9Hz models end in -1

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 pelco.com or email support@pelco.com for specific product support.

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