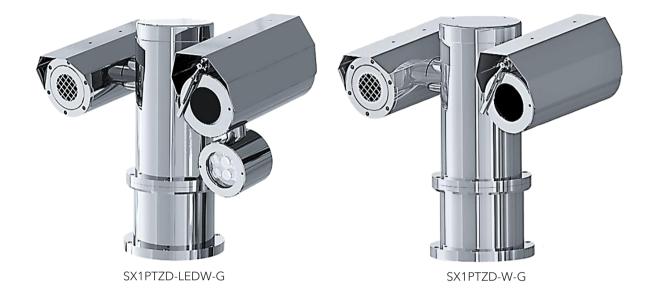
Ventionex

SX1PTZD Series with BOSCH Camera

Explosion Proof Dual PTZ Camera Station

Integrated with 2MP Bosch DINION 6000 Camera Module and 17x Optical Zoom Autofocus Lens + Thermal Camera (384x288 or 640x480) Module



Main Features



Marine grade AISI316L Stainless Steel material



Fitted with wiper mechanism



Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db



Bosch 2MP Box Camera with 17x optical zoom autofocus lens

'IP

IP 66 / 68



384x288 or 640x480 resolution for thermal camera module



Vandal-proof IK10 ratings



Option for IEEE 802.3bt PoE++ (90Watt)



Technical Data

General			
Certification	Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db		
Protection Level	IP 66 / 68, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection		
Operating Temperature	-40°C to 60°C		
Relative Humidity	≤95%		
Mechanical			
Body Material	Stainless steel 316L material		
Sight Glass Material	Window with hardened mineral clear tempered glass		
	Window with Germanium glass (for SX1PTZD-G models)		
Pan & Tilt Speed	Variable speed option: 0.1°/s to 45°/s		
Pan & Tilt Movement	Pan: 360° continuously	Tilt: -90° ~ +90°	
Overall Dimension (WxHxD)	Please refer to overall dimension drawings of each model.		
Cable Entries	1 x M25 (optional additional cable entry upon request)		
Weight	Approximate 47KG		
Electrical			
Operating Voltage	AC110-240V (0.5A – 1.10A), 50/60Hz Optional: IEEE 802.3bt PoE++(90W)		
Power Consumption	Max 110W (110V), Max 120W (240V)		
Thermostatically Controlled Heater	T°C on: <10°C, T°C off: >10°C		
Optional			
LED Illumination	Up to 200 meters (for SX1PTZ-LEDW model)		
Built in Fiber Optic Module	Single Mode or Multi Mode (-SM or -MM model, please refer to below ordering info)		
Accessories			
Standard	Sunshield for Camera Housing		
Optional	Wall Bracket, Sunshield for Pan & Tilt Body, Pole Top Mounting Adapter		



IP Camera/Lens

Camera			
Day/Night	Auto (adjustable switch points), Color, Monochrome		
Shutter Time	Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter		
Noise Reduction	Intelligent Dynamic Noise Reduction Intelligent Streaming		
Image Settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure Control, Masking, Text Overlay		
Corridor Mode	Corridor Mode 90°, 180°, 270° rotation		
Image			
Image Sensor	1/2.8" Progressive CMOS		
Effective Pixels	HxV = 1920x1080 (2MP)		
Pixel Size	4 µm		
Lens	f =7.5 mm (wide) to 127.0 mm (tele), F1.6		
Zoom	17x Optical Zoom with Autofocus		
Min. Illumination	Color: 0.0069Lux B/W: 0.0008Lux		
Compression Standard			
Video Compression	H.264/MJPEG		
Video Streaming	Multiple configurable streams in H.264 and MJPEG, configurable frame rate and bandwidth. Regions of Interest (ROI)		
Network			
Security	User Authentication/ HTTPS/ IP Filter/ IEEE 802.1x		
Supported Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, noip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication		
ONVIF	Profile S/ G/ M/ T conformant		
System Integration			
Analytics	Rule-based alarms and tracking, Line crossing, Enter /leave the field, Follow route Loitering, Idle/removed object, People counting, Crowd density estimation, 3D tracking, Audio detection (if microphone used)		
General			
Storage	Supports up to 32 GB microSDHC / 2 TB microSDXC card. Extreme lifetime and health monitoring support that provides early service indication. Recommended: Industrial microSD cards with health monitoring		

*Analog camera and other camera module options are available upon request.

*Thermal camera options are available for G model. Please contact us for the details



Thermal Camera/Lens

	384 640		
Туре	Uncooled FPA		
Resolution	384x288	640x480	
Pixel pitch	17µm		
NETD	≤80mK@F1, 300K, 50Hz		
Field Frequency	50Hz		
Spectral range	8 – 14 µm		
Lens Options	Fixed lens: 9mm, 18mm, 37mm	Fixed lens: 9mm, 25mm, 37mm	
	Motorized lens: 7.5mm, 15mm, 30mm	Motorized lens: 13mm, 25mm, 42mm	
Brightness/Gain Adjustment	Yes		
Polarity Inversion	Revers	e color	
Digital Zoom	Up to 4	x Zoom	
Image Enhancement	Ye	95	
Calibration	Manually calibrate, Automatically calibrate during power on		
Rolling-over/mirror	On		
Display	Varieties of pseudo color labels (firefighting color, iron hot, red hot, amber, white hot, black hot, etc.)		
Focus	Manua	l/Auto	
Pan & Tilt Control	Yes		
Storage	Support Micro SD, up to 64G, local storage, NAS (NFS, SMB support) / FTP protocol		
OSD	Time, date, channel number, channel name and custom text, temperature measurement information		
Recording Mode	Mobile Surveillance, Alarm Recording (Gray, highest temperature, areas, alarming cross the lines, etc.), network disconnect recording, timing recorded		
Raw Thermal Image Output	25fps, in the back end manually capture the signal frame raw image and data, the raw image can be analyzed and measured temperature		
Ethernet	RJ-45 (10/100BASE-T)		
Video Compression Format	H.264, Motion JPEG		
Resolution	640x480 / 384x288		
Max Frame Rate	H.264: 30fps MJPEG: 640x480: 15fps		
Video Quality Modulation	H.264: Compression degree, target bite rate degree control		
Bit Rate Control Way	H.264: CBR or VBR		
IP	IPv4		
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, ICMP, IGMP, AF	, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, RP, DNS, DDNS	
Safety	HTTPS(SSL) Login Verification, Class Login Verification, IP address filter, user access log, 802.1x ID Verification		
Applied Program Interface	ONVIF Profile S		
Web Browser	Microsoft Internet Explorer (Version 9~11)		
Temperature Detection Range	Normal temperature range: -20°C ~ 180 °C High temperature range: 100°C ~ 600 °C (-H Model, Please specify upon order)		
Accuracy	±2°C or ±2%		
Mode	Supports 3 movable points, 3 movable areas (highest temperature, lowest temperature, average temperature measurement)		
Emissivity Correction	0.01 ~ 1.0 adjustable		
Alarm Output	Switch output		
Protocol Output	SDK alarm protocol output, ONVIF alarm information output		

Specifications subject to change without notice. © Ventionex, all rights reserved. DS-SX1PTZD-BH-0217-r6



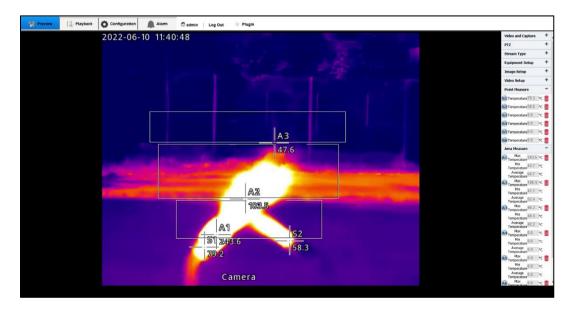
Resolution	Lens (mm)	FOV	Detection (m)	Recognition (m)	
	Fixed				
640×480	9	62.3° x 48.8°	291	146	
	25	24.6° x 18.5°	809	404	
	37	16.7° x 12.6°	1197	599	
	Motorized				
	13	45.4° x 34.8°	421	210	
	25	24.6° x 18.5°	809	404	
	42	14.8° x 11.1°	1359	679	
384×288	Fixed				
	9	39.9° x 30.4°	291	146	
	18	20.6° x 15.5°	582	291	
	37	10.1° x 7.6°	1197	599	
	Motorized				
	7.5	47.0° x 36.2°	243	121	
	15	24.6° x 18.5°	485	243	
	30	12.4° x 9.3°	971	485	

Lens Comparison Table

Our Technology

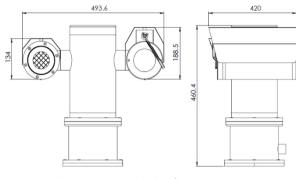
✓ RADIOMETRIC FUNCTIONS FOR MEASURING TEMPERATURE

The integrated thermal camera can have up to a maximum of 6 Area Measures, 6 Point Measures and 3 Line Measures. The different type of measures can accommodate different type of thermal monitoring. Area Measures and Line Measures monitor the maximum, minimum and average temperature with precise temperature detection. Point Measures monitor the temperature on its exact location. The device can be configured so that it independently generates a Radiometric Alarm and/or Warning. This function is particularly useful when Monitoring Industrial Processes.

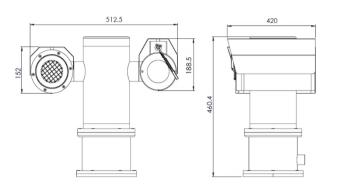


Configurations for Radiometric Temperature Measurement

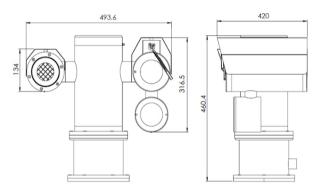




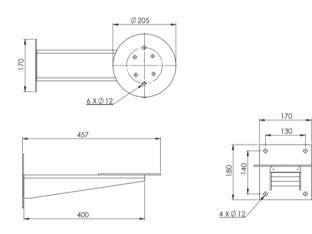
SX1PTZD-W-G Outline Dimensions



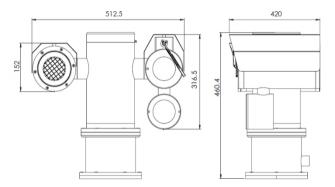
SX1PTZD-W-GL Outline Dimensions



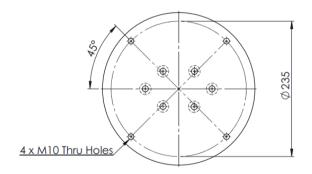
SX1PTZD-LEDW-G Outline Dimensions



WB-SX1PTZ - Wall Bracket Outline Dimensions



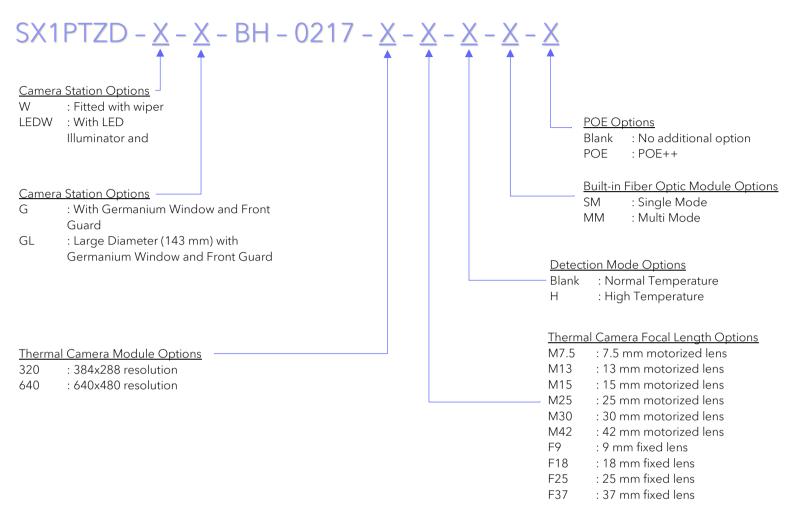
SX1PTZD-LEDW-GL Outline Dimensions



<u>PTA-SX1PTZ - Pole Top Mounting Adapter</u> <u>Outline Dimensions</u>



Model & Ordering Code



*Please refer lens comparison table above.

Standard Accessories

SCH-SX1PTZD : Sunshield for Camera Housing

Optional Accessories

- WB-SX1PTZ : Wall Bracket
- SPT-SX1PTZD : SPT-SX1PTZ : I
 - : Sunshield for Pan & Tilt Body : Pole Top Mounting Adapter