SX1CH-22x4K Series

Explosion Proof Fixed Camera Housing
Integrated with 8MP [4K] 22x Optical Zoom Ventionex VX2 Sony Sensor Camera Module

SX1CH

SX1CH-W

SX1CH-LEDW

Main Features

AISI316L

Marine grade AISI316L Stainless Steel material

IECEx | **Ex** | **INMETRO**

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

IP

IP 66 / 68

IK 10

Vandal-proof IK10 ratings

PoE +

Option for IEEE 802.3at PoE+

8MP [4K] Resolution 22x optical zoom lens

Motorized 6.4 - 138.5 mm

IR

Option for LED illuminator available

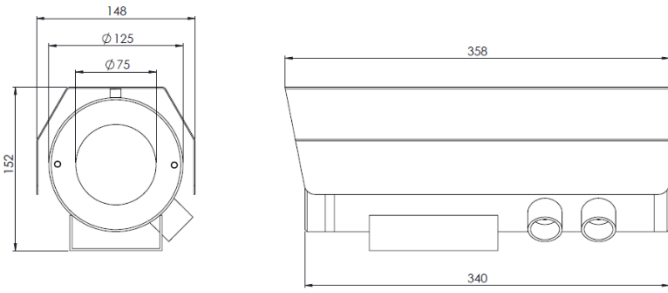| General	
Certification	Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db
Protection Level	IP 66 / 68, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Operating Temperature	-40°C to 60°C
Relative Humidity	≤95%
Mechanical	
Body Material	AISI316L Stainless Steel
Sight Glass Material	Window with hardened mineral clear tempered glass
	Window with Germanium glass (for SX1CH-G and SX1CH-GL models)
Overall Dimension (WxHxD)	*Please refer to overall dimension drawings of each model.*
Internal Usable Size for Camera Module	Ø80 x 282 mm
Cable Entry	2 x M25
Weight	Approximate 25KG
Electrical	
Operating Voltage	AC110-240V (0.5A – 1.10A), 50/60Hz Optional: IEEE 802.3at PoE+
Power Consumption	Max 110W (110V), Max 120W (240V)
Thermostatically Controlled Heater	T°C on: <10°C, T°C off: >10°C
Optional	
Wiper Mechanism	Available for SX1CH-W and SX1CH-LEDW model
LED Illumination	Up to 200 meters (Available for SX1CH-LED and SX1CH-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, Swivel Joints
Optional	Wall Bracket

Ventionex

IP Camera/Lens

Camera	
Day/Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K s
Noise Reduction	2DNR, 3DNR, NR by motion
Image Settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure Control, Masking, Text Overlay
Corridor Mode	Corridor Mode 90⁰, 180⁰, 270⁰ rotation

Image		
Image Sensor	1/1.8" Progressive CMOS	
Effective Pixels	HxV = 3864x2180, 8MP [4K]	
Pixel Size	2.0 µm	
Lens	f =6.4 mm (wide) to 138.5 mm (tele), F1.5	
FOV	Horizontal: 64⁰ (wide), 3⁰ (tele)	Vertical: 37⁰ (wide), 2⁰ (tele)
Zoom	22x Optical zoom, digital zoom ready	
Min. Illumination	Color: 0.04Lux	B/W: 0.002Lux
Frame Rate (Maximum)	H265: HDR 4K @30fps + d1@30fps HDR 6M @30fps + 720p @30fps	
	H264: HDR 4K @30fps + d1@30fps HDR 6M @30fps + 720p @30fps	
	MJPEG: 1080p @30fps	

Compression Standard	
Video Compression	H.265/H.264/MJPEG
Video Streaming	Up to 4 individually configurable streams in H.265/ H.264/ MJPEG Configurable resolution/ frame rate/ bandwidth LBR/ VBR/ CBR in H.265/ H.264

Network	
Security	User Authentication/ HTTPS/ IP Filter/ IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS
ONVIF	Profile S/ G/ Q/ T conformant

System Integration	
Analytics	Motion Detection/ Tampering

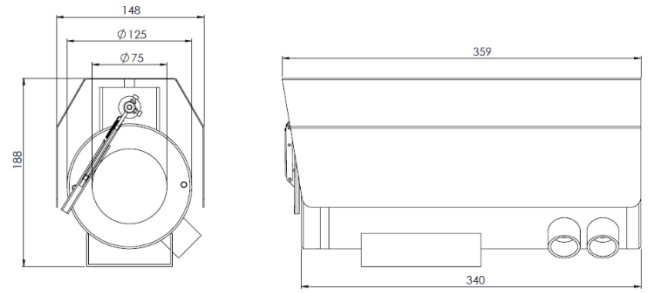| General	
Storage	Support for microSD/ microSDHC/ microSDXC card Support for recording to NAS

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

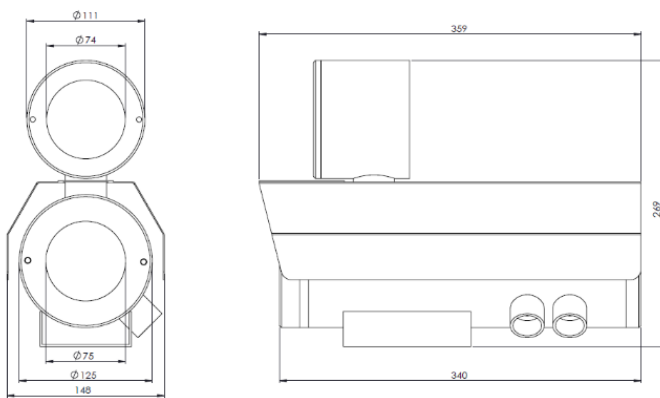*Thermal camera options are available for G model. Please contact us for the details*

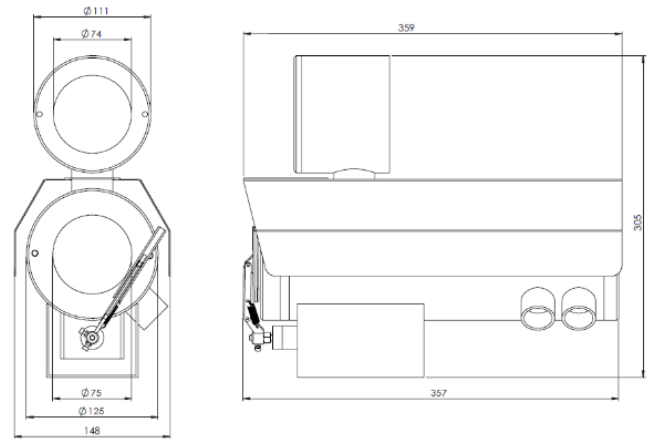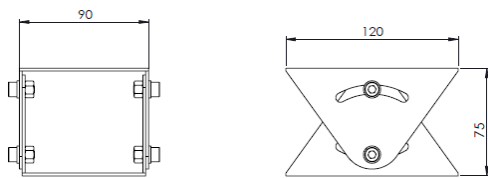# Outline Dimensions (mm)

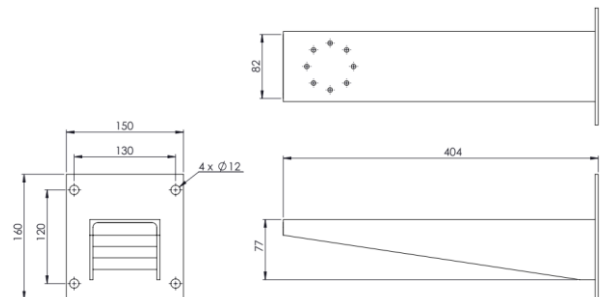SX1CH Outline Dimensions

SX1CH-W Outline Dimensions

SX1CH-LED Outline Dimensions

SX1CH-LEDW Outline Dimensions

SJ-SX1CH – Swivel Joints Outline Dimensions

WB-SX1CH – Wall Bracket Outline Dimensions

Ventionex

SX1CH – X –22x4K– X – X

POE Options
Blank   : No additional option
POE   : POE+

Built-in Fiber Optic Module Options
Blank   : No additional option
SM   : Single Mode
MM   : Multi Mode

Additional Options
Blank   : No additional option
W   : Fitted with wiper mechanism
LED   : With LED Illuminator
LEDW   : With LED Illuminator and Wiper

Standard Accessories

SCH-SX1CH   : Sunshield for Camera Housing (for SX1 series without LED illuminator)
SCH-SX1CH-LED : Sunshield for Camera Housing with LED illuminator (for SX1CH-LED and SX1CH-LEDW)
SJ-SX1CH   : Swivel Joints

Optional Accessories

WB-SX1CH   : Wall Bracket