Ventionex
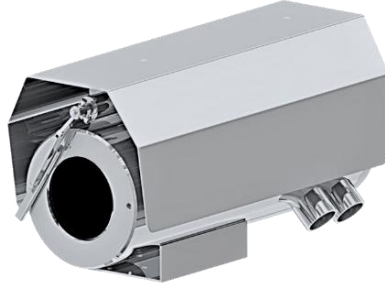
SX1CH-5x8M Series

Explosion Proof Fixed Camera Housing

Integrated with 8MP [4K] 5x Optical Zoom Ventionex VX2-B8Y Analytics Camera Module with optional built-in edge analytics

| SX1CH | SX1CH-W | SX1CH-LEDW |

Main Features

AISI316L

Marine grade AISI316L Stainless Steel material

IECEx **Ex** **INMETRO** **IP66** **IP68**

Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db, IP 66 / 68

8MP [4K] Resolution 5x Optical Zoom

IR

Option for LED illuminator available

PoE++

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

Intelligent Video Analytics for Human, Vehicle & Object Detection

(Optional) Advanced Analytics Fire or Smoke Detection

Simpnify

(Optional) Simpnify Unified Intelligent Platform

Technical Data

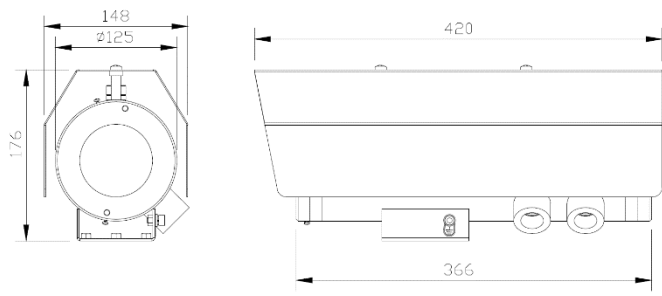| General	
Certification	Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db
Protection Level	IP 66 / 68, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Operating Temperature	-40°C to 60°C
Relative Humidity	≤95%
Mechanical	
Body Material	AISI316L Stainless 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.*
Weight	Approximate 25KG
Internal Usable Size for Camera Module	Ø80 x 155 mm
Cable Entry	2 x M25
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 or Dual Mode (-SM or –MM or –DM model, please refer to below ordering info)
Accessories	
Standard	Sunshield, Swivel Joints
Optional	Wall Bracket

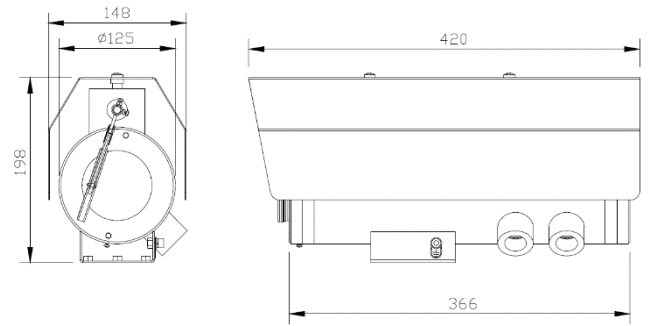| Camera	
Image Sensor	1/2.8" CMOS
Signal System	PAL/NTSC
Min. Illumination	Color: 0.003Lux@ (F1.6, ACG ON)
	B/W: 0 Lux with IR
Shutter Time	1s to 1/100000 s
Lens	Motorized 2.7 – 13.5mm, Angle of View: 102.7° ~ 29°
Lens Mount	φ14
Day& Night	Dual IR Cut Filter with Auto Switch
Wide Dynamic Range	120 dB
Image	
Max. Image Resolution	HxV: 3840×2160, 8MP [4K]
Mainstream	PAL: 20fps (3840×2160, 3072x2048), 25fps (2560×1440, 2304×1296, 1920×1080, 1280×720)
	NTSC: 20fps (3840×2160, 3072x2048), 30fps (2560×1440, 2304×1296, 1920×1080, 1280×720)
Substream	PAL: 25fps (704×576, 704×288, 640×480, 352×288)
	NTSC: 30fps (704×480, 704×240, 640×480, 352×240)
3rd Stream	PAL: 25fps (1280×720, 704×576, 704×288, 640×360, 352×288)
	NTSC: 30fps (1280×720, 704×480, 704×240, 640×360, 352×240)
Image Settings	Saturation, brightness, contrast, sharpness, adjustable by web browser
Image Enhancement	BLC/3D DNR/HLC/Corridor Format
Smart Defog	Yes
ROI	Support 8 fixed region of coding
Privacy Mask	Yes, 8 regions
Picture Overlay	Yes
OSD	16×16, 24×24,32×32, 48×48, 64x64, 96x96, adaptable size, Letters Such as Week, Date, Time, Total 5 Regions
Compression Standard	
Video Compression	S+265/H.265/H.264/M-JPEG
Video Bit Rate	32Kbps~16Mbps
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, DDNS, MULTICAST, UPnP, FTP, IPV4, NTP, RTSP, SMTP, IGMP, QoS, PPPoE
Remote Connection	≤7
System Compatibility	ONVIF (Profile S/T), P2P
Interface	
On-board Storage	MicroSD Card Slot, up to 512GB
Advanced	
Analytics	Tripwire, Double Tripwire, Perimeter, Running, Heatmap, Loitering, Object Abandoned, Missing Object, Parking, Crowd *Support detection and classification of specific target types (people or vehicle) to remove false alarm caused by animals, leaves etc.
Advanced Analytics	*(optional upon request)* Fire Detection or Smoke Detection
Intelligent Platform	*(optional upon request)* Simpnify Unified Intelligent Platform Integration

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
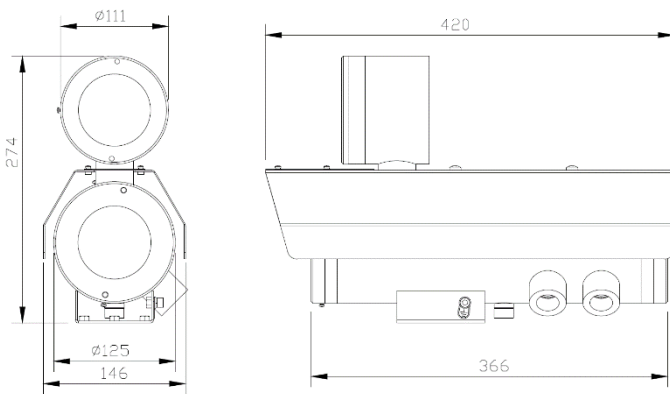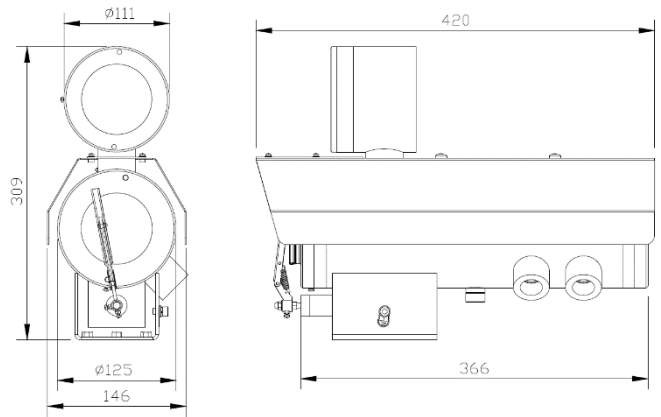
Outline Dimensions (mm)
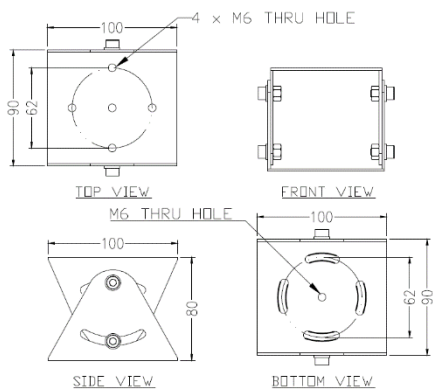
SX1CH Outline Dimensions

SX1CH-W Outline Dimensions
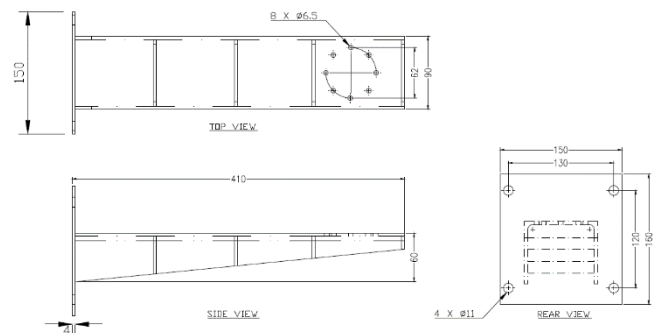
SX1CH-LED Outline Dimensions

SX1CH-LEDW Outline Dimensions

SJ-SX1CH – Swivel Joints Outline Dimensions

WB-SX1CH – Wall Bracket Outline Dimensions

SX1CH – X – 5x8M – 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
DM   : Dual 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