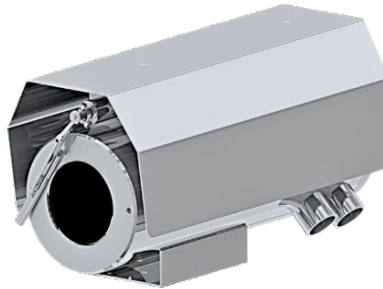# Ventionex

SX1CH Series with BOSCH Camera

Explosion Proof Fixed Camera Housing

Integrated with 2MP Bosch DINION 6000 Camera Module and 8mm Fixed Lens 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

BOSCH

Bosch 2MP Box Camera DINION IP starlight 6000 HD

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	Ø90 x 282 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

Ventionex

IP Camera/Lens

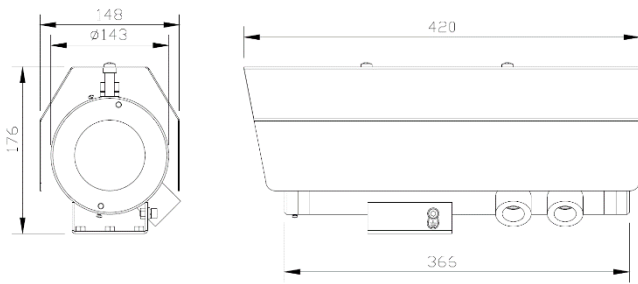| Camera	
Day/Night	Auto (adjustable switch points), Color, Monochrome
Shutter Time	Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter
Noise Reduction	Intelligent Dynamic Noise Reduction Intelligent Streaming
Image Settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure Control, Masking, Text Overlay
Corridor Mode	Corridor Mode 90⁰, 180⁰, 270⁰ rotation

Image		
Image Sensor	1/2.8" Progressive CMOS	
Effective Pixels	HxV = 1920x1080 (2MP)	
Pixel Size	4 µm	
Lens	8mm Fixed Lens *(other options available upon request)*	
Focus	Manual *(other options available upon request)*	
Iris	Manual *(other options available upon request)*	
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)
Advanced Analytics	*(optional upon request)* Fire Detection or Smoke Detection
Intelligent Platform	*(optional upon request)* Simpnify Unified Intelligent Platform Integration, Radar Tracking Integration

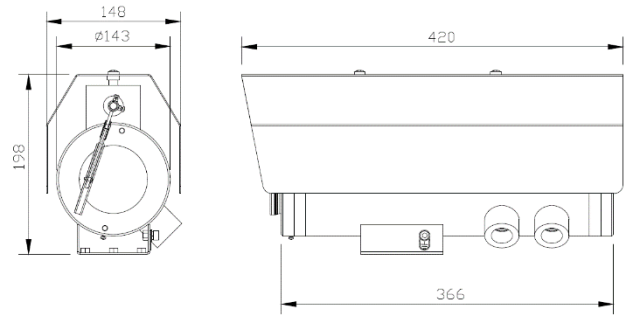| General	
Storage	Supports up to 32 GB microSDHC / 2 TB microSDXC card. Extreme lifetime and health monitoring support that provides early service indication. Recommended: Industrial microSD cards with health monitoring

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
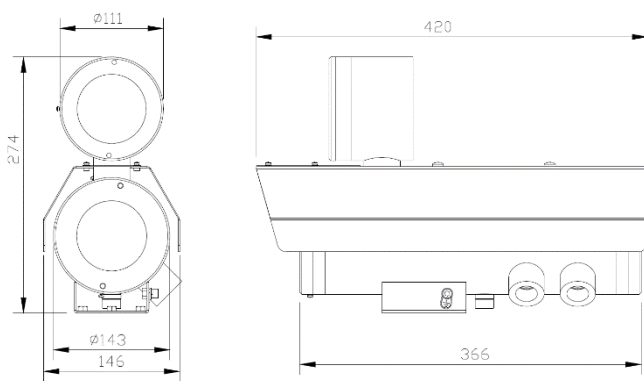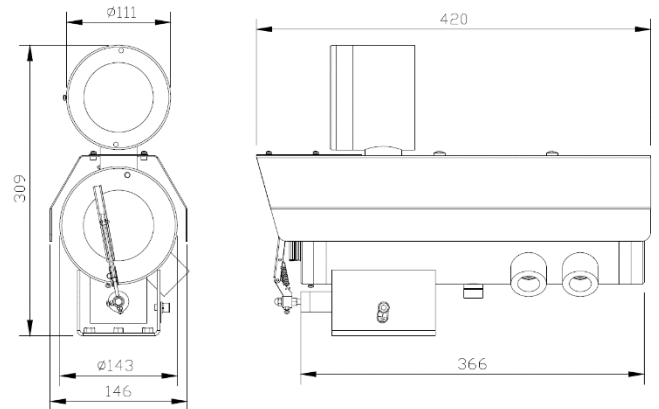
Outline Dimensions (mm)
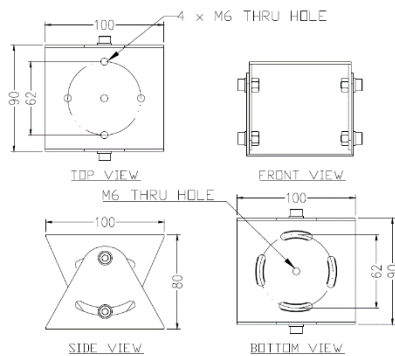
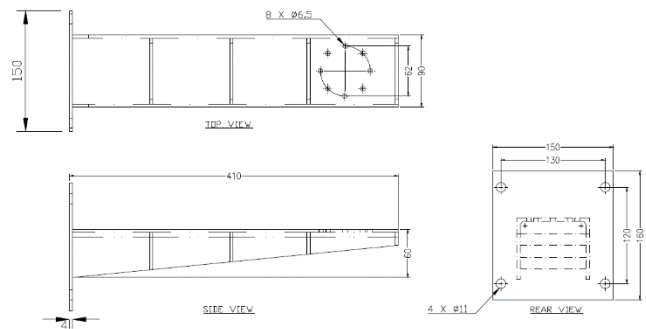SX1CH Outline Dimensions

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 – BH – 02F8 – 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