# Ventionex

# SX1CH-AVI Series

## Explosion Proof Fixed Camera Housing
Integrated with Avigilon Camera Module



SX1CH



SX1CH-W



SX1CH-LEDW

## Main Features

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**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+

Next-Generation
Video Analytics

Multiple lens options
available

**IR**

Option for LED
illuminator available

# Technical Data

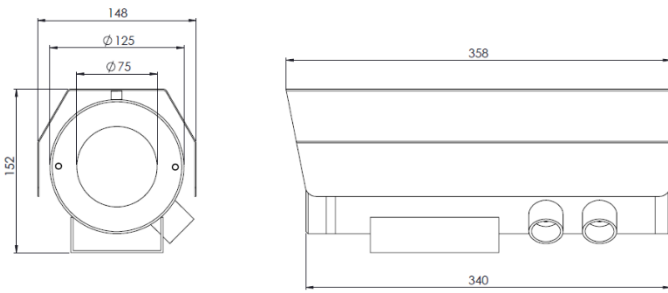| General | |
|---|---|
| Certification | Ex II 2 G Ex db op pr IIC T6 Gb / Ex II 2 D Ex tb op pr IIIC T80°C Db |
| Protection Level | IP 66 / 68, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Operating Temperature | -40°C to 60°C |
| Relative Humidity | ≤95% |
| **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.* |
| 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 |

## IP Camera/Lens

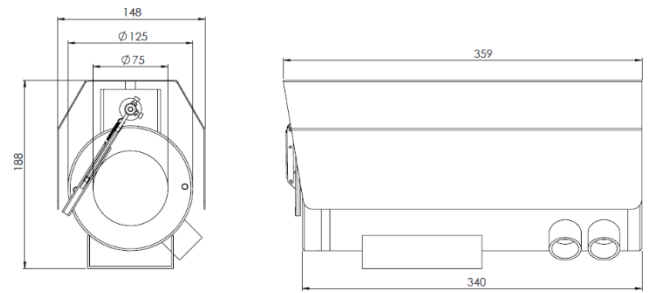| | Self-learning Video Analytics Range | | | | | |
|---|---|---|---|---|---|---|
| | 2MP, 18x Zoom | 2MP | 4MP (9) | 4MP (22) | 6MP | 8MP [4K] |
| Sensor | 1/2.8" | | | | 1/1.8" | |
| Focal Length (mm) | 4.7 – 84.6 | 3.3 – 9 | 3.3 – 9 | 9 – 22 | 4.9 – 8 | 4.9– 8 |
| Focus | F1.6 | F1.3 | F1.3 | F1.6 | F1.8 | |
| Effective Pixels (HxV) | (16:9) 1920 x 1080 | | (16:9) 2560 x 1440 (4:3) 2304 x 1728 | | (16:9) 3200 x 1800 (3:2) 3027 x 2048 | (16:9) 3840 x 2160 |
| Horizontal Angle of View | (16:9) 4.1° – 60° | (16:9) 34° – 99° | (16:9) (4:3) 34° – 92° | (16:9) 14° – 31° (4:3) 11° – 24° | (16:9) 52° – 92° (3:2) 41° – 73° | (16:9) 52° – 92° |
| Max Image Rate | (50 Hz/60 Hz): 25 fps/30 fps | | WDR off (50 Hz/60 Hz): 25 fps/30 fps WDR on (50 Hz/60 Hz): 20 fps/20 fps | | (50 Hz/60 Hz): 25 fps/30 fps | |
| Day/Night Control | Automatic, Manual | | | | | |
| Illumination Requirement | Color: 0.039Lux B/W: 0.02Lux | Color: 0.027Lux B/W: 0.014Lux | Color: 0.03Lux B/W: 0.015Lux | Color: 0.058Lux B/W: 0.029Lux | Color: 0.055Lux B/W: 0.028Lux | |
| Image Compression Method | H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG | | | | | |
| Protocols | IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP | | | | | |
| Supported Video Analytics Events | Objects in Area, Loitering, Crossing Beam, Object Appears or Enters Area, Object Not Present in Area, Objects Enter Area, Objects Leave Area, Object Stops in Area, Direction Violated, Tamper Detection | | | | | |

*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*
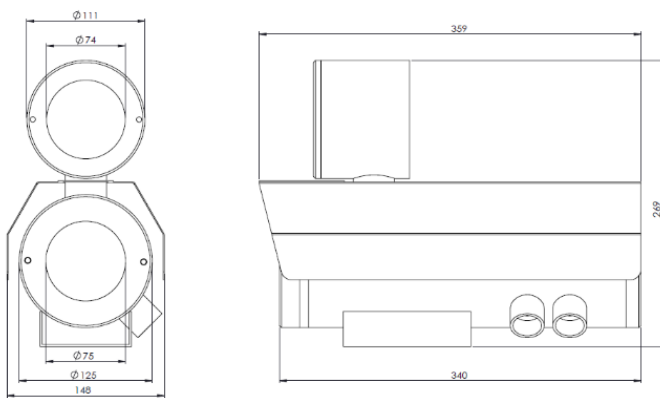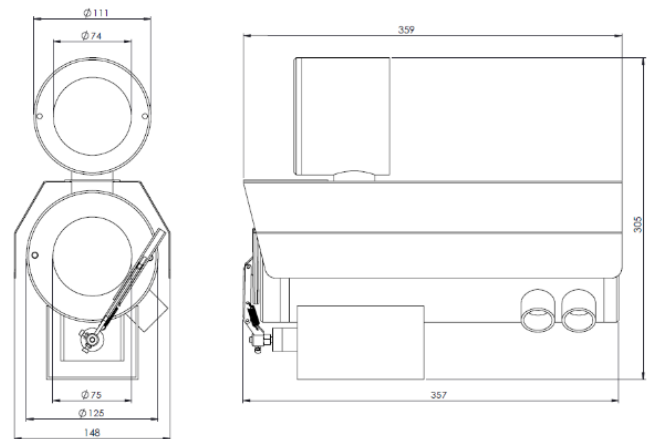
# Outline Dimensions (mm)
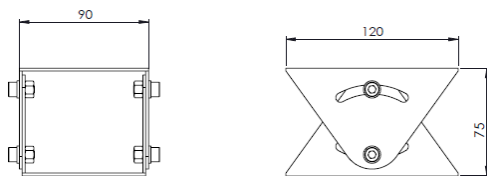


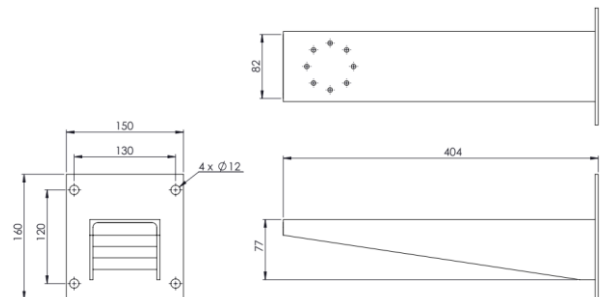SX1CH Outline Dimensions



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 - AVI - X - 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

### Camera Module Options
18x2M : 2MP, 18x Zoom, IP with Self-learning Video Analytics
2M : 2MP, IP with Self-learning Video Analytics
4M (9) : 4MP (3.3-9mm), IP with Self-learning Video Analytics
4M (22) : 4MP (9-22mm), IP with Self-learning Video Analytics
6M : 6MP, IP with Self-learning Video Analytics
8M : 8MP, IP with Self-learning Video Analytics

### 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