

WHEN QUALITY AND PERFORMANCE MATTERS



**EXPLOSION PROOF AND WEATHER
RESISTANT SURVEILLANCE EQUIPMENT**

Our Company

Incorporated in 2008, Avex CCTV Pte Ltd (Avex) is the first and only Singapore registered manufacturing company that specializes in the design and manufacture of high quality Stainless Steel Explosion proof & Weatherproof CCTV Camera Stations, Housings and Accessories for use in Hazardous Areas at Marine, Offshore, Oil & Gas and Industrial locations. It is the only known company in Singapore which has obtained ATEX & IECEx certification for its explosion proof range of CCTV products.

In keeping with today's globalized market and to bring to the customer both quality products and cost effective and competitive pricing, Avex employs modern business strategies and fosters strategic partnerships and OEM agreements with other ATEX certified CCTV manufacturing plants. Avex utilizes this readily available global pool of resources by outsourcing the fabricating of hardware components, according to our design, and some assembly work. All R&D, design, quality control and final testing are done by our team of skilled engineers in Singapore before being certified, packed and shipped to customers worldwide.

Avex CCTV Pte Ltd has been awarded Quality Assurance Notification (QAN) and Quality Assurance Report (QAR) by Certification Management Limited (CML), the leading Notified Body for Ex Product Certification in UK, under the requirements of ATEX & IECEx Directives for manufacturers of Equipment or Protective Systems for use in Potentially Explosive atmospheres. Avex CCTV has also been awarded ISO9001:2015 certification by SOCOTEC Certification Singapore, ensuring sound business practices and quality and process control. Our quality processes are continuously improved through regular internal and external audits. Our products are manufactured and certified to the ATEX & IECEx requirements for equipment using the Flameproof (Ex d) protection concept.

With strong contact relationships and referral networks among consultants, system integrators and main contractors, in addition to our directors experience of more than 20 years in the video and security industry, Avex is poised to make a significant impact on the CCTV and security market.

Our Customer Relationship

At Avex our goal is to provide you with camera stations and housings that respond to your current requirements and can expand with your future needs.

To achieve success, we believe in establishing and maintaining good customer relationships based on sound, fundamental practices where communication with a customer isn't just about taking an order and making a delivery. It is about actively listening and probing to uncover and understand customer's specific needs and the environmental factors that customers can face. It is followed by making sound recommendations, offering alternatives or custom options when they are available, and following up by delivering on our promises.

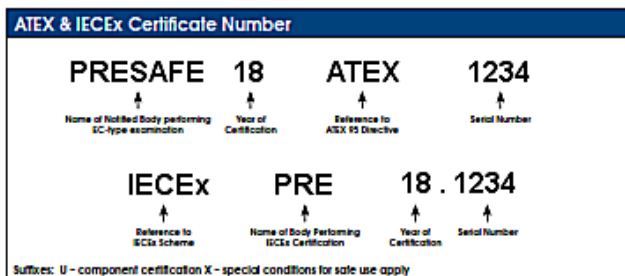
We are continually analyzing how we work internally and with our customers. Avex understands that to be successful, companies need suppliers they can rely on. We strive to earn that trust because our successful reputation is built one order at a time and one satisfied customer at a time.

Our Global Reach

Avex CCTV is fast becoming a global brand due to our increased marketing worldwide. Our long term objective is for system integrators and end users worldwide to put us on their "preferred CCTV brand" list due to our quality products, prompt technical and sales support and competitive pricing. In order to achieve this objective, Avex CCTV has established a network of distributors in various countries to offer local support to customers.

Our distributor network and global reach is expanding each month, and if we don't already have a distributor in your area/country, chances are we will have one very soon.





Classification of Divisions and Zones

| Type of Area | NEC and CEC* | ATEX and IEC | Definitions |
|----------------------------------|--------------|------------------------|--|
| Continuous hazard | Division 1 | Zone 0 / Zone 20 Cat 1 | A place in which an explosive atmosphere is continuously present |
| Intermittent hazard | Division 1 | Zone 1 / Zone 21 Cat 2 | A place in which an explosive atmosphere is likely to occur in normal operation |
| Hazard under abnormal conditions | Division 2 | Zone 2 / Zone 22 Cat 3 | A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods |

* On occasion the ATEX and IEC Zones may be used in the corresponding NEC and CEC system

Equipment Groups (ATEX and IECEx)

| Equipment Group | Equipment Category | Equipment Protection Level | Atmosphere | Protection Level | Required Protection Performance & Operation |
|-------------------------|--------------------|----------------------------|-------------------------|------------------|--|
| I (Mines with freampap) | M1 | Ma | Methane & Dust | Very High | Two faults, remain energized and functioning |
| I (Mines with freampap) | M2 | Mb | Methane & Dust | High | Severe normal operation, De-energise in explosive atmosphere |
| II (all other areas) | 1 | Ga / Da | Gas, Vapour, Mist, Dust | Very High | Two faults |
| II (all other areas) | 2 | Gb / Db | Gas, Vapour, Mist, Dust | High | One fault |
| II (all other areas) | 3 | Gc / Dc | Gas, Vapour, Mist, Dust | Low | Normal operation |

Ingress Protection Codes

| First Number (protect from solid bodies) | Second Number (protect from water) |
|--|------------------------------------|
| 0 No protection | 0 No protection |
| 1 Objects > 50mm | 1 Vertical drip |
| 2 Objects > 12.5mm | 2 Angled drip |
| 3 Objects > 2.5mm | 3 Spraying |
| 4 Objects > 1.0mm | 4 Splashing |
| 5 Dust-protected | 5 Jetting |
| 6 Dust-tight | 6 Powerful jetting |
| | 7 Temporary immersion |
| | 8 Continuous immersion |

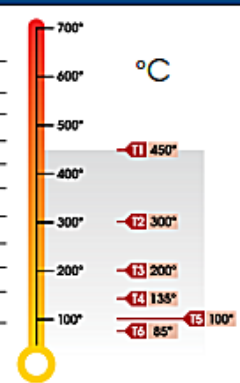
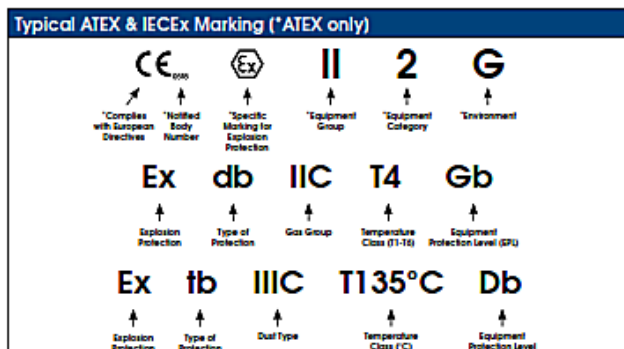
Apparatus Groups (ATEX and IECEx)

| Group | Environment | Location | Typical Substance |
|-------|-------------------|-----------------------------|--|
| I | Gases, Vapour | Coal Mining | Methane (Free damp) |
| IIA | | Surface and other locations | Acetic acid, Acetone, Ammonia, Butane, Cyclohexane, Gasoline (petrol), Kerosene, Methane (natural gas) (non-mining), Methanol (methyl alcohol), Propane, Propan-2-ol (iso-propyl alcohol), Toluene, Xylene |
| IIB | | | Di-ethyl ether, Ethylene, Methyl ethyl ketone (MEK), Propan-1-ol (n-propyl alcohol), Ethanol (ethyl alcohol) |
| IIIC | | | Acetylene, Hydrogen, Carbon disulphide |
| IIA | Combustible Dusts | Surface and other locations | Combustible flyings |
| IIB | | | Non-conductive |
| IIIC | | | Conductive |

Temperature Classification

Classification of maximum surface temperatures for Group II Electronic Equipment (T Class)

| Group | Temperature Class | Substance | Max Temp (°C) |
|-------|-------------------|-------------------|---------------|
| IIA | T1 | Ammonia | 650° |
| IIC | T1 | Hydrogen | 560° |
| IIA | T1 | Methane | 537° |
| IIA | T1 | Propane | 470° |
| IIB | T2 | Ethylene | 425° |
| IIA | T2 | Butane | 372° |
| IIC | T2 | Acetylene | 325° |
| IIA | T3 | Cyclohexane | 259° |
| IIA | T3 | Kerosene | 210° |
| IIB | T4 | Diethyl Ether | 160° |
| IIC | T6 | Carbon Disulphide | 95° |

Protection Concepts (ATEX and IECEx)

| Type of Protection | Symbol | Typical IEC EPL | Typical Zone(s) | IEC Standard | Basic Concept of Protection |
|--|-------------------------|--------------------------|------------------------------------|--------------------------|---|
| Electrical Equipment for Gases, Vapours and Mists (G) | | | | | |
| General Requirements | - | - | - | IEC 60079-0 | - |
| Optical Radiation | Op pr Op sh Op ls | Gb Ga Ga | 1, 2 0, 1, 2 0, 1, 2 | IEC 60079-28 | Protection against ignitions from optical radiation |
| Increased Safety | ieb ec | Gb Gc | 1, 2 2 | IEC 60079-7 | No arcs, sparks or hot surfaces, Enclosure IP54 or better |
| Type 'n' (non-sparking) | nA | Gc | 2 | IEC 60079-15 | |
| Flameproof | da db dc | Ga Gb Gc | 0, 1, 2 1, 2 2 | IEC 60079-1 | Contain the explosion, quench the flame |
| Type 'n' (enclosed break) | nC | Gc | 2 | IEC 60079-15 | |
| Quartz / Sand Filled | q | Gb | 1, 2 | IEC 60079-5 | Quench the flame |
| Intrinsic Safety | ia ib ic | Ga Gb Gc | 0, 1, 2 1, 2 2 | IEC 60079-11 | Limit the energy of sparks and surface temperatures |
| Pressurized | px py pz | Gb Gb Gc | 1, 2 1, 2 2 | IEC 60079-2 | |
| Type 'n' (sealing & hermetic sealing) | nC | Gc | 2 | IEC 60079-15 | |
| Type 'n' (restricted breathing) | nR | Gc | 2 | IEC 60079-15 | Keep the flammable gas out |
| Encapsulation | ma mb mc | Ga Gb Gc | 0, 1, 2 1, 2 2 | IEC 60079-18 | |
| Oil Immersion | ob oc | Gb Gc | 1, 2 2 | IEC 60079-6 | |
| Electrical Equipment for Combustible Dusts (D) | | | | | |
| General Requirements | - | - | - | IEC 60079-0 | - |
| Optical Radiation | Op pr Op sh Op ls | Db Da Da | 21, 22 20, 21, 22 20, 21, 22 | IEC 60079-28 | Protection against ignitions from optical radiation |
| Enclosure | fa fb fc | Da Db Dc | 20, 21, 22 21, 22 22 | IEC 60079-31 | Standard protection for dusts, rugged tight enclosure |
| Intrinsic Safety | ia ib ic | Da Db Dc | 20, 21, 22 21, 22 22 | IEC 60079-11 | Limit the energy of sparks and surface temperatures |
| Encapsulation | ma mb mc | Da Db Dc | 20, 21, 22 21, 22 22 | IEC 60079-18 | Protection by encapsulation of incandescent parts |
| Pressurized | pD | Db Dc | 20, 21, 22 21, 22 | IEC 61241-4 | Protection by pressurization of enclosure |
| Non-Electrical Equipment | | | | | |
| General Requirements | - | - | - | EN 13653-1 | - |
| Flow Restricted Enclosure | fr | Ga, Gb, Gc Da, Db, Dc | 0, 1, 2 20, 21, 22 | IEC 60079-36 | Low potential energy |
| Flow Restricted Enclosure | fr | - | - | EN 13653-2 | Relies on tight seals, closely matched joints and tough enclosures to restrict the breathing of the enclosure |
| Flameproof Enclosure | fd | - | - | EN 13653-3 | |
| Constructional Safety | c | - | 0, 1, 2 20, 21, 22 | EN 13653-5 | Ignition hazards eliminated by good engineering methods |
| Control of Ignition Source | bi | - | - | EN 13653-6 | Control equipment fitted to detect malfunctions |
| Control of Ignition Source | hi | Ga, Gb, Gc Da, Db, Dc | 0, 1, 2 20, 21, 22 | IEC 60079-37 | |
| Pressurization | p | - | 1, 2 21, 22 | EN 60079-2 EN 61241-4 | Enclosure is purged and pressurized to prevent ignition sources from arising |
| Liquid Immersion | k | - | 0, 1, 2 20, 21, 22 | EN 13653-8 | Enclosure uses liquid to prevent contact with explosive atmosphere |
| Liquid Immersion | hi | Ga, Gb, Gc Da, Db, Dc | 0, 1, 2 20, 21, 22 | IEC 60079-37 | |

Dusts Typical Ignition Temperatures (°C)

| Dusts | Cloud | Layer |
|--------------------|--------|-----------|
| Aluminium | 590 °C | >850 °C |
| Coal dust (ignite) | 380 °C | 225 °C |
| Flour | 490 °C | 340 °C |
| Grain dust | 510 °C | 300 °C |
| Methyl cellulose | 420 °C | 320 °C |
| Phenolic resin | 530 °C | >850 °C |
| Polythene | 420 °C | (melt) °C |
| PVC | 700 °C | >850 °C |
| Soot | 810 °C | 570 °C |
| Starch | 460 °C | 435 °C |
| Sugar | 490 °C | 460 °C |

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PAN-TILT-ZOOM (PTZ) CAMERAS – STANDARD WITH IR ILLUMINATOR

PAN-TILT-ZOOM (PTZ) CAMERAS – DOME TYPE

CCTV STAINLESS STEEL CAMERA HOUSINGS

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CAMERA HOUSINGS

CAMERA HOUSINGS – WITH IR

CAMERA HOUSINGS – WITH WIPER

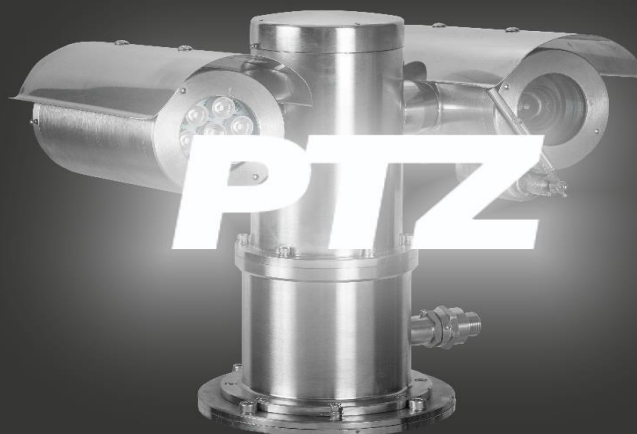
CAMERA HOUSINGS – WITH IR AND WIPER

CCTV STAINLESS STEEL ACCESSORIES

















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ENCLOSURES / JUNCTION BOX

WASHER SYSTEMS



PAN-TILT-ZOOM (PTZ) CAMERA SELECTION CHART

| | Model | Form | Material | Type | IP Rating | Horizontal Resolution | Optical Zoom | Pan Angle (/s) | Tilt Angle (/s) | Pan/Manual Speed (/s) | Tilt/Manual Speed (/s) | IR Dist | Page |
|---|--------------|----------|----------|---------|-----------|-----------------------|--------------|----------------|-----------------|-----------------------|------------------------|---------|------|
| EXPLOSION PROOF ATEX / IECEx – STAINLESS STEEL | | | | | | | | | | | | | |
|  | AX15 | Standard | SS316L | Analog | IP68 | 550 TVL | 36X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 6 |
|  | AX15-N | Standard | SS316L | Network | IP68 | 3MP/2048x1536 | 30X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 10 |
|  | AX15-N-6320 | Standard | SS316L | Network | IP68 | 2MP/1920x1080 | 32X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 14 |
|  | AX15R | Standard | SS316L | Analog | IP68 | 550TVL | 36X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 18 |
|  | AX15R-N | Standard | SS316L | Network | IP68 | 3MP/2048x1536 | 30X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 22 |
|  | AX15R-N-6320 | Standard | SS316L | Network | IP68 | 2MP/1920x1080 | 32X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 26 |
| WEATHERPROOF SAFE AREA – STAINLESS STEEL | | | | | | | | | | | | | |
|  | ASP851 | Standard | SS316L | Analog | IP68 | 550 TVL | 36X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 30 |
|  | ASP951 | Standard | SS316L | Network | IP68 | 3MP/2048x1536 | 30X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 33 |
|  | ASP951-6320 | Standard | SS316L | Network | IP68 | 2MP/1920x1080 | 32X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | | 36 |
|  | ASP851R | Standard | SS316L | Analog | IP68 | 550TVL | 36X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 39 |
|  | ASP951R | Standard | SS316L | Network | IP68 | 3MP/2048x1536 | 30X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 42 |
|  | ASP951R-6320 | Standard | SS316L | Network | IP68 | 2MP/1920x1080 | 32X | 360° | +/-90° | 0.1°-40° | 0.1°-40° | 100m | 45 |
|  | ASPD842 | Dome | SS316L | Analog | IP68 | 550TVL | 36X | 360° | -0° ~ 90° | 0.1° ~ 250° | 0.1° ~ 150° | | 48 |
|  | ASPD943 | Dome | SS316L | Network | IP68 | 2MP/1920x1080 | 32X | 360° | -5° ~ 90° | 0.1° ~ 250° | 0.1° ~ 150° | | 51 |
|  | ASPD843RW | Dome | SS316L | Analog | IP68 | 550TVL | 36X | 360° | -0° ~ 90° | 0.1° ~ 30° | 0.1° ~ 30° | 100m | 54 |
|  | ASPD944RW | Dome | SS316L | Network | IP68 | 3MP/2048x1536 | 30X | 360° | -0° ~ 90° | 0.1° ~ 30° | 0.1° ~ 30° | 100m | 57 |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL RUGGEDIZED PTZ CAMERA STATION



AX15



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15 Analog PTZ Camera Station with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- Sony 1/4" Color Day/Night Camera with 36X zoom
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- No OSD Menu

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15 explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in analog camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15 is suitable for use in almost any environment and application worldwide.

The ruggedized AX15 explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Sony 1/4" 550TVL Color Day/Night Camera with 36X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

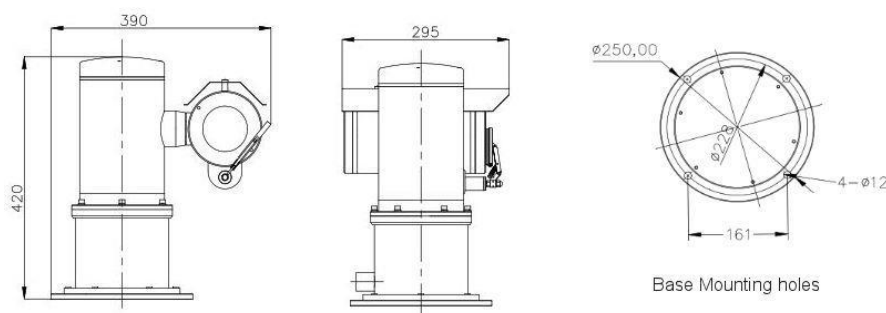
The AX15 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters 6 core (power, video, data) Non-armored composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 256 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 110KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |

WEIGHTS


| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|--|
| AX15 | Explosion proof Stainless Steel 316L PTZ Camera Station, Sony 1/4" Day/Night Camera, 36X, 550TVL resolution, PAL, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEX  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL TRUE HD NETWORK PTZ CAMERA STATION



AX15-N



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15-N True HD Network PTZ Camera Station with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 3 MP HD Color Day/Night Camera with 30X zoom
- Up to 2048 x 1536 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15-N explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15-N is suitable for use in almost any environment and application worldwide.

The ruggedized AX15-N explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in 3 Megapixel True High Definition Color Day/Night Network Camera with 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

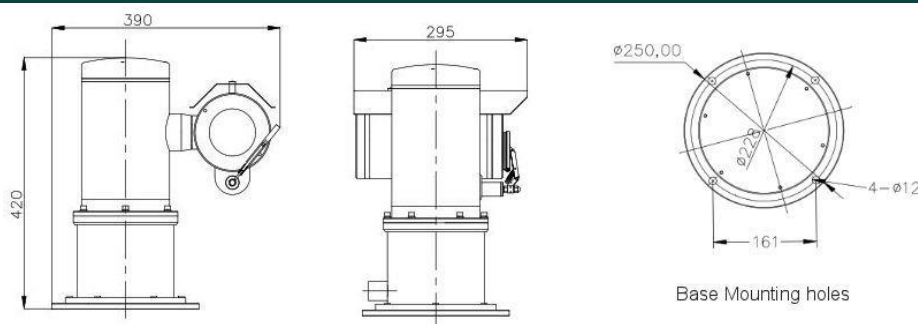
The AX15-N is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15-N is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|--|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 main profile / MJPEG |
| Audio Compression | G.722.1 / G.711-a law / G.711-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Support 3 streams |
| Network Protocol | IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP |
| Time Display | Support |
| Standard | ONVIF, CGI, GB/T28181, PISA |
| IE Browser | Support IE7 and above, Google, Firefox, Apple |
| Security | Password protection, Multiple access control |
| Preset | 256 |

CAMERA

| | |
|---------------------------|--|
| Image Device | Hikvision 3 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" Progressive Scan CMOS |
| Signal System | PAL / NTSC |
| Day/Night conversion mode | ICR infrared filter type |
| Minimum Illumination | Color 0.05lux@1.6 |
| Signal to noise ratio | Greater than 52dB |
| Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| Optical zoom | 30 times |
| Digital zoom | 12 times |
| Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| 3D noise reduction | Support |
| Focal length | 4.3 - 129mm, 30 times optical zoom |
| Aperture | F1.6 - F4.4 |
| Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS


| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|---|
| AX15-N | Explosion proof Stainless Steel 316L, 3MP True HD Color Day/Night Network PTZ Camera Station, 30X, 2048 x 1536 resolution, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEX  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL TRUE HD NETWORK PTZ CAMERA STATION



AX15-N-6320



FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 2 MP HD Color Day/Night Camera with 32X zoom
- Up to 1920 x 1080 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15-N-6320 True HD Network PTZ Camera Station with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15-N-6320 explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15-N-6320 is suitable for use in almost any environment and application worldwide.

The ruggedized AX15-N-6320 explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Samsung 2 Megapixel True High Definition Color Day/Night Network Camera with 32X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

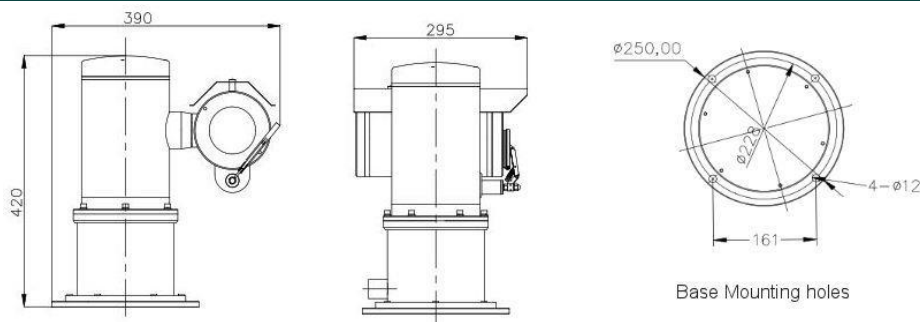
The AX15-N-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15-N-6320 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|--|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079- 0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|---|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 / H.265 / MJPEG: Target bitrate level control |
| Audio Compression | G.722.1 / G.711-a law / G.711-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Multiple streaming (Up to 10 profiles) |
| Network Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |
| Time Display | Support |
| Standard | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| IE Browser | Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser : Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only) , Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser : MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| Preset position | 256 positions |

CAMERA

| | |
|---------------------------|---|
| Image Device | Samsung 2 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" 2.4M CMOS |
| Scanning System | Progressive |
| Day/Night conversion mode | Auto (ICR) / Color / B/W / Schedule |
| Minimum Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| Signal to noise ratio | 50dB |
| Wide Dynamic Range | 150dB |
| Optical zoom | 32 times |
| Digital zoom | 32 times |
| Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| Noise reduction | SSNR5 (2D+3D noise filter) (On / Off) |
| Focal length | 4.44 ~ 142.6mm, (Optical 32x) |
| Max. Aperture Ratio | F1.6 Wide - F4.4 Tele |
| Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| Min. object distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| Electronic shutter speed | Minimum / Maximum / Anti flicker (1 ~ 1 / 12,000sec) |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS


| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|--|
| AX15-N-6320 | Explosion proof Stainless Steel 316L, 2MP True HD Color Day/Night Network PTZ Camera Station, 32X, 1920 x 1080 resolution, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEEx  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL RUGGEDIZED PTZ CCTV CAMERA STATION WITH IR ILLUMINATOR



AX15R



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15R Analog PTZ Camera Station with Wiper & IR Illuminator (100m) is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- LED IR Illuminator up to 100 meters
- Sony 1/4" Color Day/Night Camera with 36X zoom
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- No OSD Menu

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15R explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in analog camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15R is suitable for use in almost any environment and application worldwide.

The ruggedized AX15R explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Sony 1/4" 550TVL Color Day/Night Camera with 36X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength and distance of up to 100meters, delivers superior CCTV footage at night.

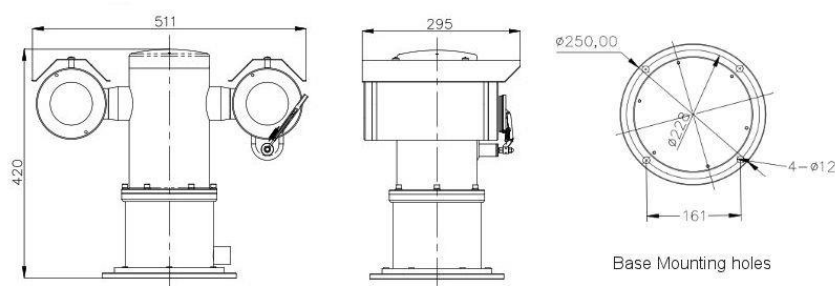
The AX15R is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15R is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

Ex II 2 G Ex db op is IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb op is IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters 6 core (power, video, data) Non-armored composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 256 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 110KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |


WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 39 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply
For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|---|
| AX15R | Explosion proof Stainless Steel 316L PTZ Camera Station, Sony 1/4" Day/Night Camera, 36X, 550TVL resolution, PAL, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEX  II 2 G Ex db op is IIC T6 Gb / II 2 D Ex tb op is IIIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL HD NETWORK PTZ CCTV CAMERA STATION WITH IR ILLUMINATOR



AX15R-N



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15R-N True HD Network PTZ Camera Station with Wiper & IR Illuminator is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- LED IR Illuminator up to 100 meters
- 3 MP HD Color Day/Night Camera with 30X zoom
- Up to 2048 x 1536 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15R-N explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15R-N is suitable for use in almost any environment and application worldwide.

The ruggedized AX15R-N explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in 3 Megapixel True High Definition Color Day/Night Network Camera with 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength and distance of up to 100meters, delivers superior CCTV footage at night.

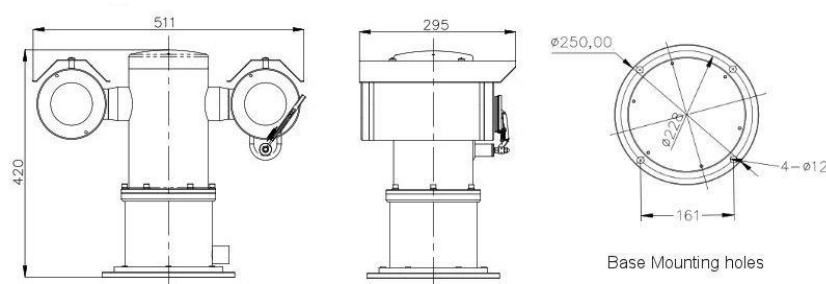
The AX15R-N is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15R-N is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

II 2 G Ex db op is IIC T6 Gb – Suitable for Gas Zone 1 & 2

II 2 D Ex tb op is IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|--|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 main profile / MJPEG |
| Audio Compression | G.722.1 / G.711-a law / G7.11-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Support 3 streams |
| Network Protocol | IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP |
| Time Display | Support |
| Standard | ONVIF, CGI, GB/T28181, PISA |
| IE Browser | Support IE7 and above, Google, Firefox, Apple |
| Security | Password protection, Multiple access control |
| Preset position | 256 |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

CAMERA

| | |
|---------------------------|--|
| Image Device | Hikvision 3 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" Progressive Scan CMOS |
| Signal System | PAL / NTSC |
| Day/Night conversion mode | ICR infrared filter type |
| Minimum Illumination | Color 0.05lux@1.6 |
| Signal to noise ratio | Greater than 52dB |
| Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| Optical zoom | 30 times |
| Digital zoom | 12 times |
| Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| 3D noise reduction | Support |
| Focal length | 4.3 - 129mm, 30 times optical zoom |
| Aperture | F1.6 - F4.4 |
| Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS


| | |
|------------------------------|-------|
| Net weight (without bracket) | 39 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|--|
| AX15R-N | Explosion proof Stainless Steel 316L, 3MP True HD Color Day/Night Network PTZ Camera Station, 30X, 2048 x 1536 resolution, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEX  II 2 G Ex db op is IIC T6 Gb / II 2 D Ex tb op is IIIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL HD NETWORK PTZ CCTV CAMERA STATION WITH IR ILLUMINATOR



AX15R-N-6320



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AX15R-N-6320 True HD Network PTZ Camera Station with Wiper & IR Illuminator is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- 12mm thick tempered glass window
- LED IR Illuminator up to 100 meters
- 2 MP HD Color Day/Night Camera with 32X zoom
- Up to 1920 x 1080 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan Speed: 0.1°/s ~ 40°/s
- IP68 (1.2 m, 45 mins)
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AX15R-N-6320 explosion proof PTZ camera station is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (1.2 m, 45 mins), the AX15R-N-6320 is suitable for use in almost any environment and application worldwide.

The ruggedized AX15R-N-6320 explosion proof PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in 2 Megapixel True High Definition Color Day/Night Network Camera with 32X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength and distance of up to 100meters, delivers superior CCTV footage at night.

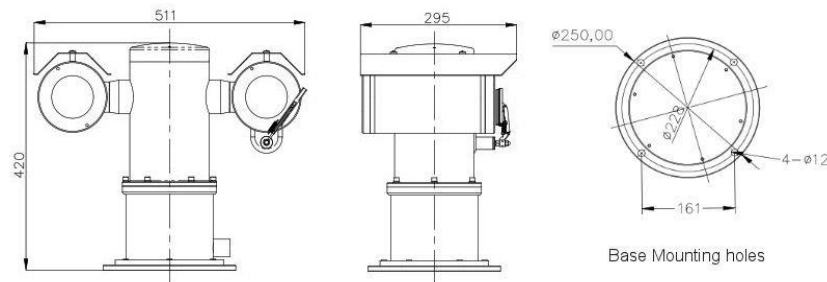
The AX15R-N-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the AX15R-N-6320 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.
- ATEX certified Flexible steel tube for protection of the non-armored composite cable pigtail from nicks and cuts in hazardous areas

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13118X

IECEx certificate no. IECEx PRE 18.0056X

CE 2776

Ex II 2 G Ex db op is IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb op is IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

MECHANICAL

| | |
|-----------------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/S ~ 40°/s |
| Tilt Speed | 0.1°/S ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Ex d Cable Glands NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|---|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 / H.265 / MJPEG: Target bitrate level control |
| Audio Compression | G.722.1 / G.711-a law / G.711-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Multiple streaming (Up to 10 profiles) |
| Network Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |
| Time Display | Support |
| Standard | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| IE Browser | Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser : Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only) , Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser : MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| Preset position | 256 positions |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

CAMERA

| | |
|---------------------------|---|
| Image Device | Samsung 2 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" 2.4M CMOS |
| Scanning System | Progressive |
| Day/Night conversion mode | Auto (ICR) / Color / B/W / Schedule |
| Minimum Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| Signal to noise ratio | 50dB |
| Wide Dynamic Range | 150dB |
| Optical zoom | 32 times |
| Digital zoom | 32 times |
| Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| Noise reduction | SSNR5 (2D+3D noise filter) (On / Off) |
| Focal length | 4.44 ~ 142.6mm, (Optical 32x) |
| Max. Aperture Ratio | F1.6 Wide - F4.4 Tele |
| Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| Min. object distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| Electronic shutter speed | Minimum / Maximum / Anti flicker (1 ~ 1 / 12,000sec) |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS


| | |
|------------------------------|-------|
| Net weight (without bracket) | 39 Kg |
| Net weight (bracket) | 8 Kg |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|---|
| AX15R-N-6320 | Explosion proof Stainless Steel 316L, 2MP True HD Color Day/Night Network PTZ Camera Station, 32X, 1920 x 1080 resolution, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). ATEX/IECEX  II 2 G Ex db op is IIC T6 Gb / II 2 D Ex tb op is IIC T80°C Db, IP68. |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|----------|--|
| WB15 | Wall mount bracket |
| BNG-2000 | 2 mtrs Stainless Steel 316L Explosion proof Flexible Conduit with stainless steel connectors |
| AXE11 | Explosion proof Ex d Enclosure/Junction box |
| AXWS10 | 10-Litre Washer system with Explosion proof solenoid |



WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP851 Analog PTZ Camera Station with Wiper is well suited for video surveillance in both normal and harsh weather conditions (IP68).

FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- Sony 1/4" Color Day/Night Camera
- 36X Optical zoom / 550TVL Resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- No OSD Menu

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The ASP851 is a new advanced and innovative complete all-in-one PTZ camera station with built-in analogue camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP851 is suitable for use in almost any environment and application worldwide.

The ruggedized ASP851 PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Sony 1/4" 550TVL Color Day/Night Camera with 36X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

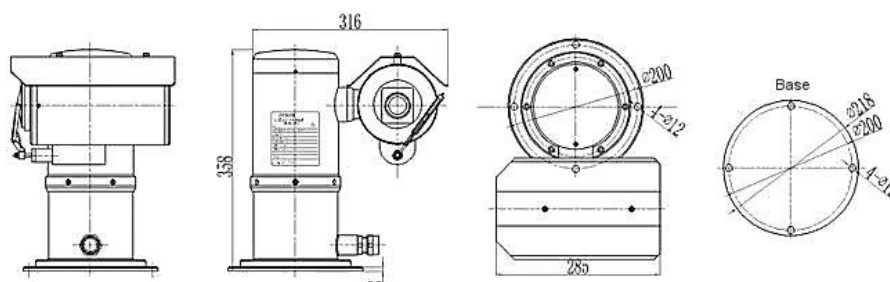
The ASP851 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP851 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- AJ40 Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters 6 core (power, video, data) Non-armored composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 256 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 24 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

| |
|---|
| Wall mount bracket |
| Weatherproof Stainless Steel 316L Termination box |
| 10-Litres Stainless Steel 316L Manually Pressurized Washer system |

WARRANTY

| |
|--|
| Standard 12 months warranty. Standard Avex warranty terms and conditions apply |
| For extended warranty, please contact us |

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|--|
| ASP851 | Stainless Steel 316L Weatherproof IP68 PTZ Camera Station, Sony 1/4" Day/Night Camera, 36X, 550TVL resolution, PAL, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail.

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB851 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP951 HD Network PTZ Camera Station with Wiper is well suited for video surveillance in both normal and harsh weather conditions (IP68).

FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 3 MP HD Color Day/Night Camera with 30X zoom
- Up to 2048 x 1536 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The ASP951 is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP951 is suitable for use in almost any environment and application worldwide.

The ruggedized ASP951 PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in 3 Megapixel True High Definition Color Day/Night Network Camera with 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

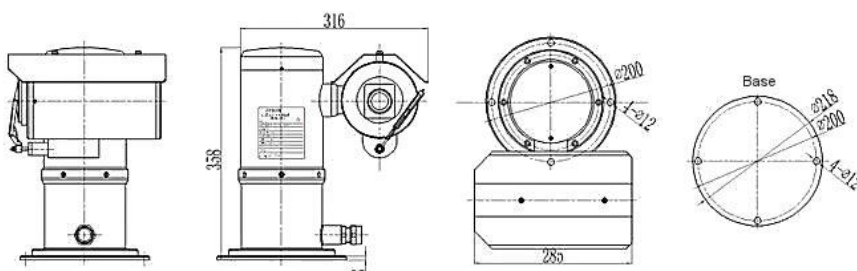
The ASP951 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP951 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|--|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 main profile / MJPEG |
| Audio Compression | G.722.1 / G.711-a law / G7.11-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Support 3 streams |
| Network Protocol | IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP |
| Time Display | Support |
| Standard | ONVIF, CGI, GB/T28181, PISA |
| IE Browser | Support IE7 and above, Google, Firefox, Apple |
| Security | Password protection, Multiple access control |
| Preset position | 256 positions |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 24 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

| |
|---|
| Wall mount bracket |
| Weatherproof Stainless Steel 316L Termination box |
| 10-Litres Stainless Steel 316L Manually Pressurized Washer system |

CAMERA

| | |
|---------------------------|--|
| Image Device | Hikvision 3 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" Progressive Scan CMOS |
| Signal System | PAL / NTSC |
| Day/Night conversion mode | ICR infrared filter type |
| Minimum Illumination | Color 0.05lux@1.6 |
| Signal to noise ratio | Greater than 52dB |
| Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| Optical zoom | 30 times |
| Digital zoom | 12 times |
| Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| 3D noise reduction | Support |
| Focal length | 4.3 - 129mm, 30 times optical zoom |
| Aperture | F1.6 - F4.4 |
| Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION**PART NO****DESCRIPTION**

| | |
|--------|--|
| ASP951 | Stainless Steel 316L Weatherproof 3MP True HD Color Day/Night Network PTZ Camera Station, 30X, 2048 x 1536 resolution, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC), IP68 |
|--------|--|

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB951 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP951-6320 HD Network PTZ Camera Station with Wiper is well suited for video surveillance in both normal and harsh weather conditions (IP68).

FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 2 MP HD Color Day/Night Camera with 32X zoom
- Up to 1920 x 1080 resolution
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The ASP951-6320 is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP951-6320 is suitable for use in almost any environment and application worldwide.

The ruggedized ASP951-6320 PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Samsung 2 Megapixel True High Definition Color Day/Night Network Camera with 32X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

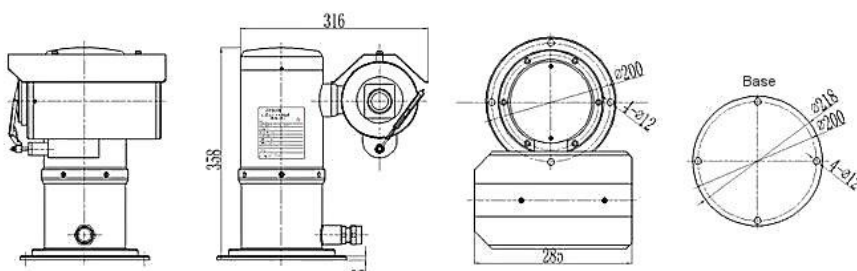
The ASP951-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP951-6320 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

NETWORK

| | |
|-------------------|---|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 / H.265 / MJPEG: Target bitrate level control |
| Audio Compression | G.722.1 / G.711-a law / G7.11-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Multiple streaming (Up to 10 profiles) |
| Network Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |
| Time Display | Support |
| Standard | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| IE Browser | Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser : Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only) , Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser : MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| Preset position | 256 positions |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 24 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

Wall mount bracket

Weatherproof Stainless Steel 316L Termination box

10-Litres Stainless Steel 316L Manually Pressurized Washer system

CAMERA

| | |
|---------------------------|---|
| Image Device | Samsung 2 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" 2.4M CMOS |
| Scanning System | Progressive |
| Day/Night conversion mode | Auto (ICR) / Color / B/W / Schedule |
| Minimum Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| Signal to noise ratio | 50dB |
| Wide Dynamic Range | 150dB |
| Optical zoom | 32 times |
| Digital zoom | 32 times |
| Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| Noise reduction | SSNR5 (2D+3D noise filter) (On / Off) |
| Focal length | 4.44 ~ 142.6mm, (Optical 32x) |
| Max. Aperture Ratio | F1.6 Wide - F4.4 Tele |
| Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| Min. object distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| Electronic shutter speed | Minimum / Maximum / Anti flicker (1 ~ 1 / 12,000sec) |

WARRANTY

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|-------------|--|
| ASP951-6320 | Stainless Steel 316L Weatherproof 2MP True HD Color Day/Night Network PTZ Camera Station, 32X, 1920 x 1080 resolution, Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC), IP68 |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB951 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP851R Analog PTZ Camera Station with Wiper & IR Illuminator is well suited for video surveillance in both normal and harsh weather conditions (IP68).

FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- Sony 1/4" Color Day/Night Camera with 36X Zoom
- LED IR Illuminator up to 100 meters
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- No OSD Menu

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The ASP851R is a new advanced and innovative complete all-in-one PTZ camera station with built-in analogue camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP851R is suitable for use in almost any environment and application worldwide.

The ruggedized ASP851R PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Sony 1/4" 550TVL Color Day/Night Camera with 36X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength delivers superior CCTV footage at night.

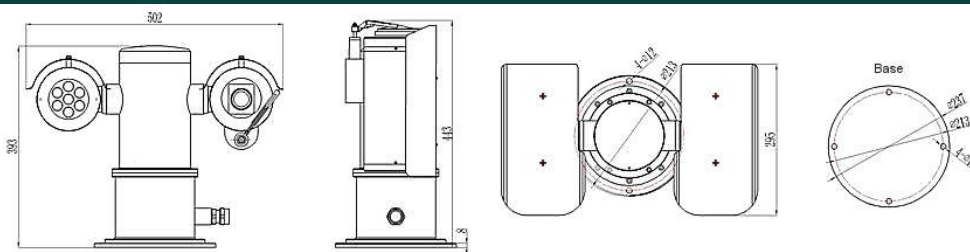
The ASP851R is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP851R is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan / Tilt Speed | 0.1°/s ~ 45°/s |
| Mounting | Base (Standard) or Wall (Optional) |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters 6 core (power, video, data) Non-armored composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 256 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

| |
|---|
| Wall mount bracket |
| Weatherproof Stainless Steel 316L Termination box |
| 10-Litres Stainless Steel 316L Manually Pressurized Washer system |

WARRANTY

| |
|--|
| Standard 12 months warranty. Standard Avex warranty terms and conditions apply |
| For extended warranty, please contact us |

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|---|
| ASP851R | Stainless Steel 316L Weatherproof IP68 PTZ Camera Station, Sony 1/4" Day/Night Camera, 36X, 550TVL resolution, PAL, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC). |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB851 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP951R True HD Network PTZ Camera Station with Wiper & IR Illuminator is well suited for video surveillance in both normal and harsh weather conditions (IP68).

FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 3 MP HD Color Day/Night Camera with 30X zoom
- LED IR Illuminator up to 100 meters
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The ASP951R is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP951R is suitable for use in almost any environment and application worldwide.

The ruggedized ASP951R PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in 3 Megapixel True High Definition Color Day/Night Network Camera with 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength delivers superior CCTV footage at night.

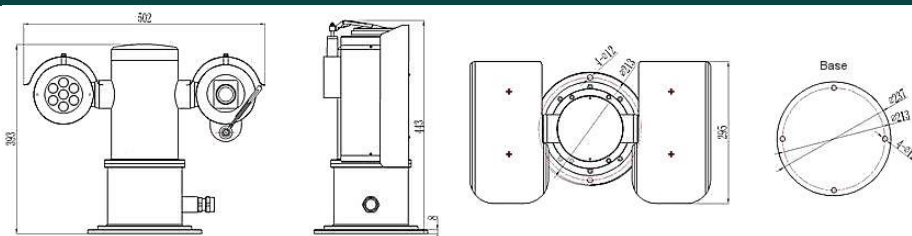
The ASP951R is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP951R is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

COMMUNICATION

| | |
|-------------------|--|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 main profile / MJPEG |
| Audio Compression | G.722.1 / G.711-a law / G7.11-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Support 3 streams |
| Network Protocol | IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP |
| Time Display | Support |
| Standard | ONVIF, CGI, GB/T28181, PISA |
| IE Browser | Support IE7 and above, Google, Firefox, Apple |
| Security | Password protection, Multiple access control |
| Preset position | 256 positions |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

CAMERA

| | |
|---------------------------|--|
| Image Device | Hikvision 3 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" Progressive Scan CMOS |
| Signal System | PAL / NTSC |
| Day/Night conversion mode | ICR infrared filter type |
| Minimum Illumination | Color 0.05lux@1.6 |
| Signal to noise ratio | Greater than 52dB |
| Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| Optical zoom | 30 times |
| Digital zoom | 12 times |
| Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| 3D noise reduction | Support |
| Focal length | 4.3 - 129mm, 30 times optical zoom |
| Aperture | F1.6 - F4.4 |
| Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

| |
|---|
| Wall mount bracket |
| Weatherproof Stainless Steel 316L Termination box |
| 10-Litres Stainless Steel 316L Manually Pressurized Washer system |

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|--|
| ASP951R | Stainless Steel 316L Weatherproof 3MP True HD Color Day/Night Network PTZ Camera Station, 30X, 2048 x 1536 resolution, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC) IP68 |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB951 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WEATHERPROOF STAINLESS STEEL RUGGEDIZED NETWORK PTZ CCTV CAMERA STATION WITH IR ILLUMINATOR

IP68

ASP951R-6320



FEATURES

- Stainless Steel 316L construction
- 12mm thick tempered glass window
- 2 MP HD Color Day/Night Camera with 32X zoom
- LED IR Illuminator up to 100 meters
- 100~240VAC 50/60Hz (Standard) / 24VAC (Optional)
- Pan Rotation: 360° Continuous
- Tilt Rotation: Unobstructed +90° ~ -90°
- Pan / Tilt Manual Speed: 0.1°/s ~ 40°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance

WHEN SAFETY AND PERFORMANCE MATTERS

The Weatherproof ASP951R-6320 True HD Network PTZ Camera Station with Wiper & IR Illuminator is well suited for video surveillance in both normal and harsh weather conditions (IP68).

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The ASP951R-6320 is a new advanced and innovative complete all-in-one PTZ camera station with built-in IP camera, telemetry receiver, power board, IR Illuminator, pan/tilt, heater, window defroster, fan, camera housing and wiper system. With Ingress protection of IP68 (Nema 6 & 6P), the ASP951R-6320 is suitable for use in almost any environment and application worldwide.

The ruggedized ASP951R-6320 PTZ camera station is constructed from 316L stainless steel material for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The built-in Samsung 2 Megapixel True High Definition Color Day/Night Network Camera with 32X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength delivers superior CCTV footage at night.

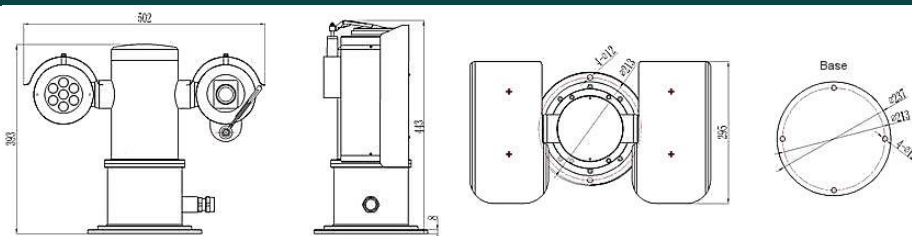
The ASP951R-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash and wipe the window clean.

For easy and safe installation, the ASP951R-6320 is supplied pre-wired with 3 meters of non-armored composite cable pigtail.

Other options available are:

- Wall mount bracket
- Weatherproof Stainless Steel 316L Termination box

DIMENSIONS



TECHNICAL DATA**MECHANICAL**

| | |
|-------------------------|------------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Pan Movement | 360° Continuous Pan Rotation |
| Vertical Tilt | +90° ~ -90° Unobstructed |
| Pan Speed | 0.1°/s ~ 40°/s |
| Tilt Speed | 0.1°/s ~ 30°/s |
| No. of Cable Entries | 1 |
| Cable Entry Size/Thread | M25/1.5 |
| Mounting | Base (Standard) or Wall (Optional) |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 75W |
| Pigtail | 3 meters non-armored composite cable |

COMMUNICATION

| | |
|-------------------|---|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 / H.265 / MJPEG: Target bitrate level control |
| Audio Compression | G.722.1 / G.711-a law / G.711-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Multiple streaming (Up to 10 profiles) |
| Network Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |
| Time Display | Support |
| Standard | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| IE Browser | Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser : Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only) , Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser : MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| Preset position | 256 positions |

LED IR ILLUMINATOR

| | |
|---------------------|-----------------|
| Projection Distance | 80 - 100 Meters |
| Projection Angle | 45° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

CAMERA

| | |
|---------------------------|---|
| Image Device | Samsung 2 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" 2.4M CMOS |
| Scanning System | Progressive |
| Day/Night conversion mode | Auto (ICR) / Color / B/W / Schedule |
| Minimum Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| Signal to noise ratio | 50dB |
| Wide Dynamic Range | 150dB |
| Optical zoom | 32 times |
| Digital zoom | 32 times |
| Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| Noise reduction | SSNR5 (2D+3D noise filter) (On / Off) |
| Focal length | 4.44 ~ 142.6mm, (Optical 32x) |
| Max. Aperture Ratio | F1.6 Wide - F4.4 Tele |
| Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| Min. object distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| Electronic shutter speed | Minimum / Maximum / Anti flicker (1 ~ 1 / 12,000sec) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 30 Kg |
| Net weight (bracket) | 8 Kg |

OPTIONAL ACCESSORIES

| |
|---|
| Wall mount bracket |
| Weatherproof Stainless Steel 316L Termination box |
| 10-Litres Stainless Steel 316L Manually Pressurized Washer system |

Standard 12 months warranty. Standard Avex warranty terms and conditions apply

For extended warranty, please contact us

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|--------------|--|
| ASP951R-6320 | Stainless Steel 316L Weatherproof 2MP True HD Color Day/Night Network PTZ Camera Station, 32X, 1920 x 1080 resolution, IR Illuminator (100m), Receiver, Wiper, Sunshield, Heater, Defroster, Fan, 100~240VAC (optional 24VAC) IP68 |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail

OPTIONAL ACCESSORIES

| | |
|-------|---|
| WB951 | Wall mount bracket |
| AJ40 | Weatherproof Stainless Steel 316L Termination box |
| AWS10 | 10-Litres Stainless Steel 316L Manually Pressurized Washer system |



WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's ASPD842 Weatherproof Stainless Steel Dome PTZ CCTV Camera provides safe and reliable surveillance in both indoor and outdoor harsh weather conditions.

FEATURES

- Stainless Steel 316L
- Sony 1/4" Color Day/Night Camera
- 36X Optical zoom / 550TVL Resolution
- 300 Presets
- 24VAC
- Pan Rotation: 360° Continuous
- Tilt Rotation: 0° ~ + 90°
- Pan Preset Speed: 300°/s
- Tilt Preset Speed: 200°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- Supplied with wall mount bracket

APPLICATIONS

- Offshore Industries
- Industrial Environments
- Marine Industries
- Manufacturing Industries
- Oil & Gas Industries
- Construction Industries

TECHNICAL DATA

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |

TECHNICAL DATA**MECHANICAL**

| | |
|--------------------|------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Ingress Protection | IP68 |
| Pan | 360° Continuous Pan Rotation |
| Manual Pan Speed | 0.1°/s ~ 250°/s |
| Preset Pan Speed | 300°/s |
| Tilt | -0° ~ 90° |
| Manual Tilt Speed | 0.1°/s ~ 150°/s |
| Preset Tilt Speed | 200°/s |

ELECTRICAL

| | |
|-----------------------|------------------------|
| Input Voltage | 24 VAC |
| Power | 40W |
| Electrical Connection | 6 core composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 300 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

ENVIRONMENT

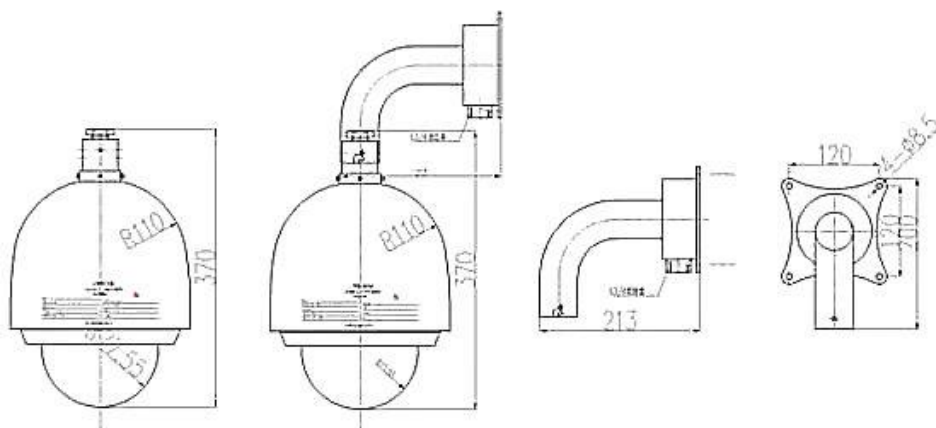
| | |
|--------------|----------------|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHT & DIMENSION

| | |
|---------------------------|--------------|
| Net weight (with bracket) | 13kg |
| Dimension | Φ213 × 570mm |

FEATURES

| | |
|-------------------|--|
| Cruise Scan | Support |
| Keep Watch | Support |
| Resume function | Support |
| Auto Cruise | Support |
| Auto Pattern | Support |
| Auto Scan | Support |
| Alarm Input | 2-channel / 7-channel |
| Alarm Output | 1-channel, action with alarm |
| Intelligent Alarm | Audio detect, move detect, video shield, network interrupt, IP address conflict, storage full, storage error, illegal access |

DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|---------|--|
| ASPD842 | Weatherproof IP68 Stainless Steel 316L High Speed Dome PTZ Camera, Sony 1/4" Day/Night Color Camera, PAL, 36X, 550TVL resolution, 24VAC & Wall mount bracket |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail



WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's ASPD943 Weatherproof Stainless Steel Network Dome PTZ CCTV Camera provides safe and reliable surveillance in both indoor and outdoor harsh weather conditions.

FEATURES

- Stainless Steel 316L
- 2 MP HD Color Day/Night Camera with 32X zoom
- Up to 1920 x 1080 resolution
- 300 Presets
- 24VAC & Hi-PoE
- Pan Rotation: 360° Continuous
- Tilt Rotation: -5° ~ + 90° (auto-flip)
- Pan Preset Speed: 300°/s
- Tilt Preset Speed: 200°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -25°C ~ +60°C
- Supplied with wall mount bracket
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Industrial Environments
- Marine Industries
- Manufacturing Industries
- Oil & Gas Industries
- Construction Industries

TECHNICAL DATA

CAMERA

| | |
|-------------------|--|
| Image Sensor | 1/2.8" progressive scan CMOS |
| Min. Illumination | Color: 0.005 Lux @ (F1.6, AGC ON) B/W: 0.001Lux @ (F1.6, AGC ON) |
| White Balance | Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Fluorescent Lamp/Sodium Lamp |
| Gain | Auto/Manual |
| Shutter Time | 50Hz: 1/1 s to 1/30,000 s 60Hz: 1/1 s to 1/30,000 s |
| Day & Night | IR Cut Filter |
| Digital Zoom | 16x |
| Privacy Mask | 24 programmable privacy masks |
| Focus Mode | Auto/Semi-automatic/Manual |
| WDR | 120 dB WDR |
| Focal Length | 4.8 mm to 153 mm, 32x optical zoom |
| Zoom Speed | Approx. 5.6 s (optical lens, wide-tele) |
| Field of View | Horizontal field of view: 55.6° to 2.04° (Wide-Tele) Vertical field of view: 32.4° to 1.14° (Wide-Tele) Diagonal field of view: 63° to 2.34° (Wide-Tele) |
| Working Distance | 10 mm to 1500 mm (wide-tele) |
| Aperture Range | F1.2 to F4.4 |

PTZ

| | |
|-----------------------|--|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Ingress Protection | IP68 |
| Voltage | 24 VAC and Hi-PoE |
| Power | Max.: 22 W |
| Movement Range (Pan) | 360° endless |
| Pan Speed | Configurable, from 0.1°/s to 250°/s, Preset speed: 300°/s |
| Movement Range (Tilt) | From -5° to 90° (auto-flip) |
| Tilt Speed | Configurable, from 0.1°/s to 150°/s Preset Speed: 200°/s |
| Proportional Zoom | Support |
| Presets | 300 |
| Patrol Scan | 8 patrols, up to 32 presets for each patrol |
| Pattern Scan | 4 pattern scans, record time over 10 minutes for each scan |
| Power-off Memory | Support |
| Park Action | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan /Panorama Scan |
| 3D Positioning | Support |
| PTZ Position Display | Support |
| Preset Freezing | Support |
| Scheduled Task | Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Dome Reboot/Dome Adjust/Aux Output |

COMPRESSION STANDARD

| | |
|-------------------|--|
| Video Compression | Main Stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third Stream: H.265/H.264/MJPEG |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.264+ | Support |
| H.265 Type | Baseline Profile/Main Profile/High Profile |
| H.265+ | Support |
| Video Bitrate | 32 Kbps to 16384 Kbps |
| Audio Compression | G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM |
| Audio Bitrate | G.711alaw/G.711ulaw: 64 Kbps G.722.1/G.726: 16 Kbps MP212/PCM: 32 Kbps/64 Kbps/128 Kbps |
| SVC | Support |

SMART FEATURES

| | |
|---------------|---|
| Basic Event | Motion Detection, Alarm Input, Alarm Output, Video Tampering Detection, Exception |
| Smart Event | Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection |
| Smart Record | ANR (Automatic Network Replenishment), Dual-VCA |
| ROI | Main stream, sub-stream, and third stream respectively support four fixed areas. |
| Auto-Tracking | Support |

IMAGE

| | |
|-------------------|--|
| Max. Resolution | 1920 × 1080 |
| Main Stream | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) 60fps (1920 × 1080, 1280 × 960, 1280 × 720) |
| Sub-Stream | 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240) |
| Third Stream | 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| Image Enhancement | HLC/BLC/3D DNR/Defog/EIS/Regional Exposure/Regional Focus |

NETWORK

| | |
|------------------------|---|
| Network Storage | Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB; NAS (NPS, SMB/ CIFS), ANR |
| Alarm Linkage | Alarm actions, such as Notify Surveillance Center, Upload to FTP, Send Email, Trigger Recording, Recording Linkage, and Alarm Input, etc. |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour |
| API | Open-ended, support ONVIF, ISAPI, and CGI, support HIKVISION SDK and Third-Party Management Platform |
| Simultaneous Live View | Up to 20 channels |
| User/Host | Up to 32 users 3 levels: Administrator, Operator and User |
| Security Measures | User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering |
| Client | iVMS-4200, iVMS-4500, iVMS-5200, Hik-Connect |
| Web Browser | IE 8 to 11, Chrome 31.0 to 44, Firefox 30.0 to 51 |

INTERFACE

| | |
|-------------------|--|
| Alarm Interface | 2-ch alarm input and 1-ch alarm output |
| Audio Interface | 1-ch audio input and 1-ch audio output |
| Network Interface | 1 RJ45 10 M/100 M Ethernet, Hi-PoE |

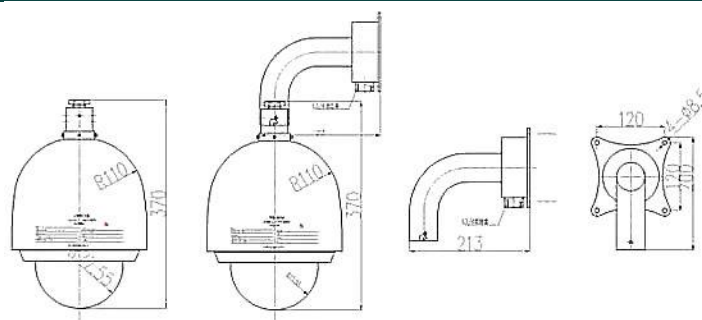
ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -25°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHT & DIMENSION

| | |
|---------------------------|--------------|
| Net weight (with bracket) | 13kg |
| Dimension | Φ213 × 570mm |

DIMENSIONS





WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's ASPD843RW Weatherproof Stainless Steel Dome PTZ CCTV Camera with wiper and IR Illuminator provides safe and reliable surveillance in both indoor and outdoor harsh weather conditions.

FEATURES

- Stainless Steel 316L
- Sony 1/4" Color Day/Night Camera
- 36X Optical zoom / 550TVL Resolution
- LED IR Illuminator up to 100 meters
- 100~240VAC 50/60Hz
- Pan Rotation: 360° Continuous
- Tilt Rotation: 0° ~ + 90°
- Pan / Tilt Speed: 0.1°/s ~ 30°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Designed for ease of installation and minimal maintenance
- Supplied with wall mount bracket

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

TECHNICAL DATA

CAMERA

| | |
|------------------------|--|
| Image device | Sony 1/4 " Ex-view HAD CCD |
| Wide dynamic range | Yes |
| Progressive scanning | Yes |
| Effective pixels | 752 (H) x 582 (V) |
| Synchronization system | Internal / External |
| Video output | VBS 1.0Vp-p/75Ω |
| White balance | Auto / Manual / Indoor / Outdoor / Auto-tracking / One click |
| Scanning frequency | 15.625KHz(H) 50Hz(V) |
| S/N Ratio | >50dB |
| Horizontal resolution | 550TVL |
| Electronic shutter | 1/1 ~ 1/10,000s |
| Focus & Iris | Auto / Manual |
| Minimum illumination | 1.4Lux |
| Focal Length | F = 3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Zoom Ratio | Total: 432X |
| | Optical: 36X |
| | Digital: 12X |

MECHANICAL

| | |
|------------------------|------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Ingress Protection | IP68 |
| Window | Tempered Glass |
| Window Glass Thickness | 10 mm |
| Pan | 360° Continuous Pan Rotation |
| Tilt | -0° ~ 90° |
| Pan / Tilt Speed | 0.1°/s ~ 30°/s |

ELECTRICAL

| | |
|-----------------------|------------------------|
| Input Voltage | 100~240VAC 50/60Hz |
| Power | 75W |
| Electrical Connection | 6 core composite cable |

COMMUNICATION

| | |
|--------------------|--------------------------------|
| Communication | RS-485 |
| Communication rate | 2400 / 4800 / 9600 / 19200 bps |
| Protocol | Pelco D / P |
| Preset | 256 |
| Preset Accuracy | ±0.1° |
| Video Output | 1.0Vp-p / 75Ω |

LED IR ILLUMINATOR

| | |
|---------------------|------------|
| Projection Distance | 100 Meters |
| Projection Angle | 30° |
| Wavelength | 850nm |
| Control Method | Auto |

ENVIRONMENT

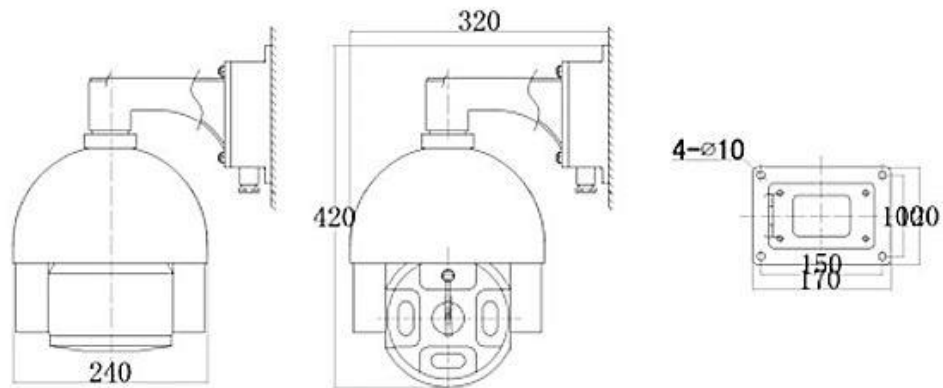
| | |
|--------------|----------------|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHT & DIMENSION

| | |
|------------|-------------------|
| Net weight | 26kg with bracket |
| Dimension | 320 x 240 x 420mm |

FEATURES

| | |
|-------------------|--|
| Cruise Scan | Support |
| Keep Watch | Support |
| Resume function | Support |
| Auto Cruise | Support |
| Auto Pattern | Support |
| Auto Scan | Support |
| Alarm Input | 2-channel / 7-channel |
| Alarm Output | 1-channel, action with alarm |
| Intelligent Alarm | Audio detect, move detect, video shield, network interrupt, IP address conflict, storage full, storage error, illegal access |

DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|-----------|--|
| ASPD843RW | Weatherproof IP68 Stainless Steel 316L Dome PTZ Camera with Wiper, IR Illuminator (100m), Sony 1/4" Day/Night Color Camera, PAL, 36X, 550TVL resolution, 100~240VAC & Wall mount bracket |

NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail



WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's ASPD944RW Weatherproof Stainless Steel Network Dome PTZ CCTV Camera with wiper and IR Illuminator provides safe and reliable surveillance in both indoor and outdoor harsh weather conditions.

FEATURES

- Stainless Steel 316L
- 3 MP HD Color Day/Night Camera with 30X zoom
- Up to 2048 x 1536 resolution
- LED IR Illuminator up to 100 meters
- 100~240VAC 50/60Hz
- Pan Rotation: 360° Continuous
- Tilt Rotation: 0° ~ + 90°
- Pan / Tilt Speed: 0.1°/s ~ 30°/s
- IP68 & NEMA 6 & 6P Standards
- Temperature rating: -40°C ~ +60°C
- Supplied with wall mount bracket
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

TECHNICAL DATA

CAMERA

| | |
|---------------------------|--|
| Image Device | Hikvision 3 Megapixel High Definition Day/Night Camera |
| Sensor Type | 1/2.8" Progressive Scan CMOS |
| Signal System | PAL / NTSC |
| Day/Night conversion mode | ICR infrared filter type |
| Minimum Illumination | Color 0.05lux@1.6 |
| Signal to noise ratio | Greater than 52dB |
| Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| Optical zoom | 30 times |
| Digital zoom | 12 times |
| Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| 3D noise reduction | Support |
| Focal length | 4.3 - 129mm, 30 times optical zoom |
| Aperture | F1.6 - F4.4 |
| Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |

MECHANICAL

| | |
|------------------------|------------------------------|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Ingress Protection | IP68 |
| Window | Tempered Glass |
| Window Glass Thickness | 10 mm |
| Pan | 360° Continuous Pan Rotation |
| Tilt | -0° ~ 90° |
| Pan / Tilt Speed | 0.1°/s ~ 30°/s |

ELECTRICAL

| | |
|-----------------------|--------------------|
| Input Voltage | 100~240VAC 50/60Hz |
| Power | 75W |
| Electrical Connection | Composite cable |

COMMUNICATION

| | |
|-------------------|--|
| Network Interface | 1 x RJ45, support 10M/100M/1000M |
| Image Compression | H.264 main profile / MJPEG |
| Audio Compression | G.722.1 / G.711-a law / G7.11-u law / MP2L2 / G.726 |
| 3D Positioning | Support |
| Voice Intercom | Support |
| Stream | Support 3 streams |
| Network Protocol | IPv4 / IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP |
| Time Display | Support |
| Standard | ONVIF, CGI, GB/T28181, PISA |
| IE Browser | Support IE7 and above, Google, Firefox, Apple |
| Security | Password protection, Multiple access control |
| Preset position | 256 positions |

FEATURES

| | |
|-------------------|--|
| Cruise Scan | Support |
| Keep Watch | Support |
| Resume function | Support |
| Auto Cruise | Support |
| Auto Pattern | Support |
| Auto Scan | Support |
| Alarm Input | 2-channel / 7-channel |
| Alarm Output | 1-channel, action with alarm |
| Intelligent Alarm | Audio detect, move detect, video shield, network interrupt, IP address conflict, storage full, storage error, illegal access |

LED IR ILLUMINATOR

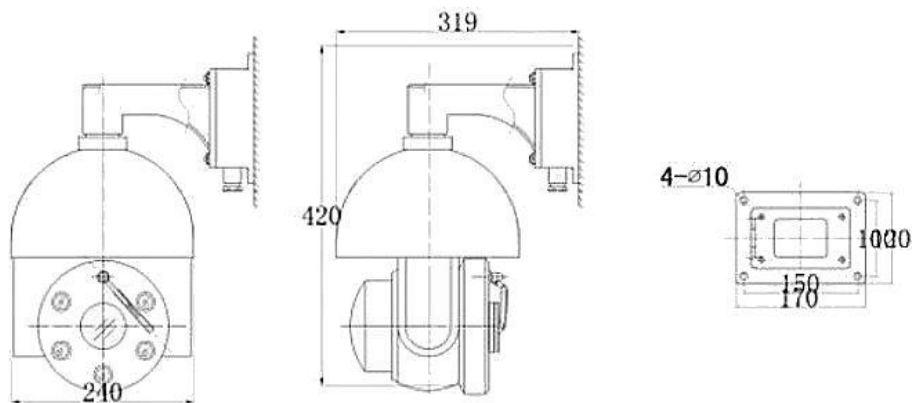
| | |
|---------------------|------------|
| Projection Distance | 100 Meters |
| Projection Angle | 30° |
| Wavelength | 850nm |
| Control Method | Auto |
| Power Consumption | 15W |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHT & DIMENSION

| | |
|------------|-------------------|
| Net weight | 26kg with bracket |
| Dimension | 320 x 240 x 420mm |

DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|-----------|---|
| ASPD944RW | Weatherproof IP68 Stainless Steel 316L High Speed 3MP True HD Color Day/Night Network Dome PTZ Camera, 30X, 2048 x 1536 resolution, Wiper, IR Illuminator (100m), 100~240VAC & Wall mount bracket |










NOTE: All units are supplied with 3 meters of non-armored composite cable pigtail















CCTV CAMERA HOUSINGS



CAMERA HOUSING SELECTION CHART

| | Model | Material | IP Rating | External Size (L x W x H /mm) | Internal Size (L x W x H /mm) | Wiper | Wiper Voltage | Auto Heater | Window Defroster | Sunshield | IR Distance | Page |
|---|--|----------|-----------|-------------------------------|-------------------------------|-------|------------------------------|-------------|------------------|-----------|-------------|------|
| EXPLOSION PROOF ATEX / IECEx – STAINLESS STEEL – WITHOUT CAMERA | | | | | | | | | | | | |
|  |  AXH19 | SS316L | IP68 | 524 x 208 x 179 | 250 x 80 x 80 | | | Optional | Optional | ✓ | | 61 |
|  |  AXH19W | SS316L | IP68 | 524 x 208 x 179 | 250 x 80 x 80 | ✓ | 100~240VAC Optional 24VAC | Optional | Optional | ✓ | | 64 |
| WEATHERPROOF SAFE AREA – STAINLESS STEEL – WITHOUT CAMERA | | | | | | | | | | | | |
|  | AH35 | SS316L | IP68 | 390 x 163 x 170 | 260 x 75 x 75 | | | Optional | Optional | Optional | | 67 |
|  | AH36R | SS316L | IP68 | 377 x 160 x 178 | 200 x 75 x 75 | | | Optional | | | 60m | 69 |
|  | AH37W | SS316L | IP68 | 472 x 195 x 194 | 210 x 80 x 80 | ✓ | 100~240VAC Optional 24VAC | Optional | Optional | ✓ | | 71 |
|  | AH38R | SS316L | IP68 | 463 x 269 x 181 | 200 x 75 x 75 | | 100~240VAC Optional 24VAC | Optional | Optional | ✓ | 100m | 73 |
|  | AH39RW | SS316L | IP68 | 485 x 269 x 205 | 200 x 75 x 75 | ✓ | 100~240VAC Optional 24VAC | Optional | Optional | ✓ | 100m | 75 |

| | Model | Material | IP Rating | External Size (L x W x H /mm) | Wiper | Type | Horizontal Resolution | Optical Zoom | Auto Heater | Window Defroster | Sunshield | Page |
|--|---|----------|-----------|-------------------------------|-------|---------|-----------------------|--------------|-------------|------------------|-----------|------|
| EXPLOSION PROOF ATEX / IECEx – STAINLESS STEEL – WITH ZOOM CAMERA | | | | | | | | | | | | |
|  |  AXH19-1020 | SS316L | IP68 | 524 x 208 x 179 | | Analog | 550 TVL | 36X | Optional | Optional | ✓ | 77 |
|  |  AXH19-3008 | SS316L | IP68 | 524 x 208 x 179 | | Network | 3MP/2048x1536 | 30X | Optional | Optional | ✓ | 80 |
|  |  AXH19-6320 | SS316L | IP68 | 524 x 208 x 179 | | Network | 2MP/1920x1080 | 32X | Optional | Optional | ✓ | 83 |
|  |  AXH19W-1020 | SS316L | IP68 | 524 x 208 x 179 | ✓ | Analog | 550 TVL | 36X | Optional | Optional | ✓ | 87 |
|  |  AXH19W-3008 | SS316L | IP68 | 524 x 208 x 179 | ✓ | Network | 3MP/2048x1536 | 30X | Optional | Optional | ✓ | 91 |
|  |  AXH19W-6320 | SS316L | IP68 | 524 x 208 x 179 | ✓ | Network | 2MP/1920x1080 | 32X | Optional | Optional | ✓ | 95 |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF STAINLESS STEEL RUGGEDIZED CCTV CAMERA HOUSING



AXH19



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion-proof AXH19 Fixed CCTV Camera Housing is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust) as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- Suitable for box cameras and lens or motorized zoom cameras
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Designed for ease of installation and minimal maintenance
- Optional Window Defroster & Wall mount bracket
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AXH19 explosion proof CCTV camera housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality. Sunshield is included as standard.

Wall mount bracket and thermostatically controlled Window Defroster are optional. The optional wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AXH19 explosion proof CCTV camera housing can be fitted with a wide range of Analogue and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

Other options available are:

- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|-----------------------|---|
| External | 524 (L) x 208 (H) x 179 (W) mm |
| Internal | 364 (L) x $\varnothing 132$ mm |
| Internal Camera space | 250 (L) x 80 (H) x 80 (W) mm (Max camera + lens size) |

MECHANICAL

| | |
|---|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEX certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting method | Wall mount bracket with swivel joint or base mount |

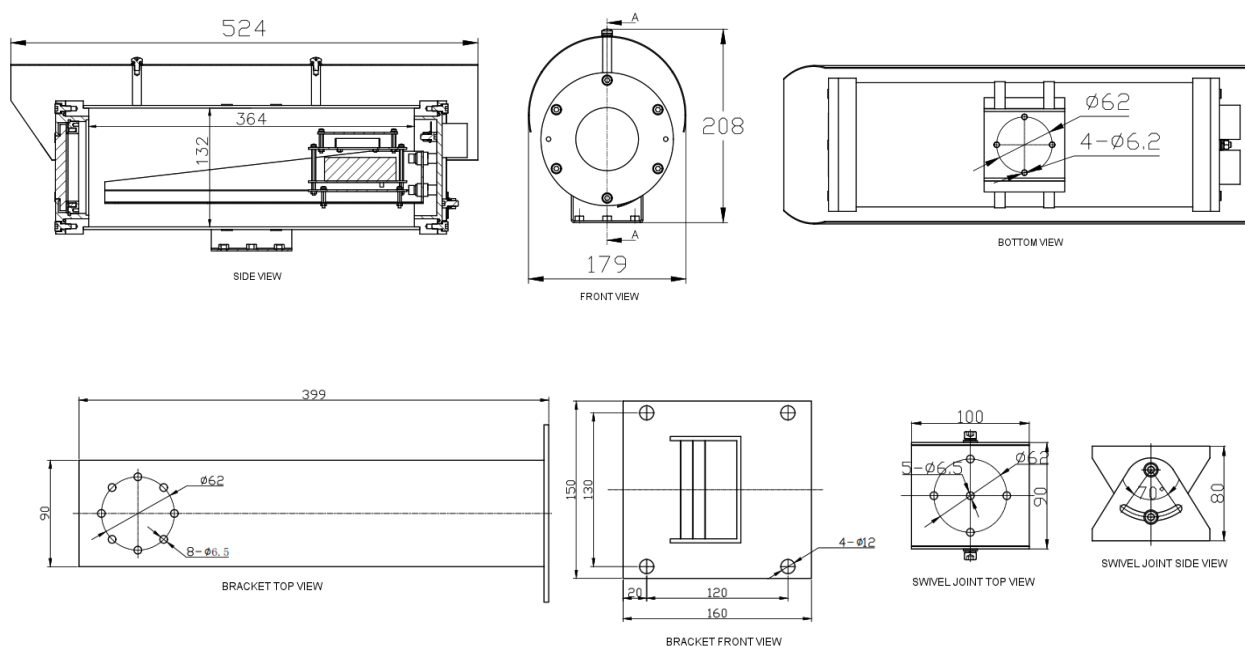
ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |


WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 15 Kg |
| Net weight (with bracket) | 19 Kg |

DIMENSIONS



ORDERING INFORMATION

| PART NO | DESCRIPTION |
|-----------------------------|---|
| AXH19 | Stainless Steel 316L Explosion proof Fixed Housing with Tempered Glass Window and Sunshield. ATEX/IECEX  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |
| OPTIONAL ACCESSORIES | |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) 110~230VAC (24VAC optional) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |



ZONE 1 & 2
ZONE 21 & 22

**EXPLOSION PROOF RUGGEDIZED
CCTV CAMERA HOUSING WITH WIPER**



AXH19W



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19W Fixed CCTV Camera Housing with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- Suitable for use with wide range of cameras
- Voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Designed for ease of use and minimal maintenance
- Standard supply includes Window Wiper, Sunshield and Receiver

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The explosion proof AXH19W housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality. With Ingress protection of IP68, the AXH19W is suitable for use in almost any environment worldwide.

The AXH19W can be fitted with a wide range of Analog or Network Box cameras and lens or zoom cameras, making it the perfect choice for almost any application.

The AXH19W is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

For easy and accurate positioning of the housing, a wall mount bracket with swivel joint is available as option. Window Wiper, Receiver and Sunshield are standard supply.

Other options available are:

- Thermostatically controlled Windows defroster
- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|-----------------------|---|
| External | 524 (L) x 208 (H) x 179 (W) mm |
| Internal | 364 (L) x ø132 mm |
| Internal Camera space | 250 (L) x 80 (H) x 80 (W) mm (Max camera + lens size) |

MECHANICAL

| | |
|---|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W |

COMMUNICATION

| | |
|---|--|
| RS485 | |
| Protocol: Pelco D (Pelco P only upon request) | |
| Baud rate: 2400 (other baud rates upon request) | |

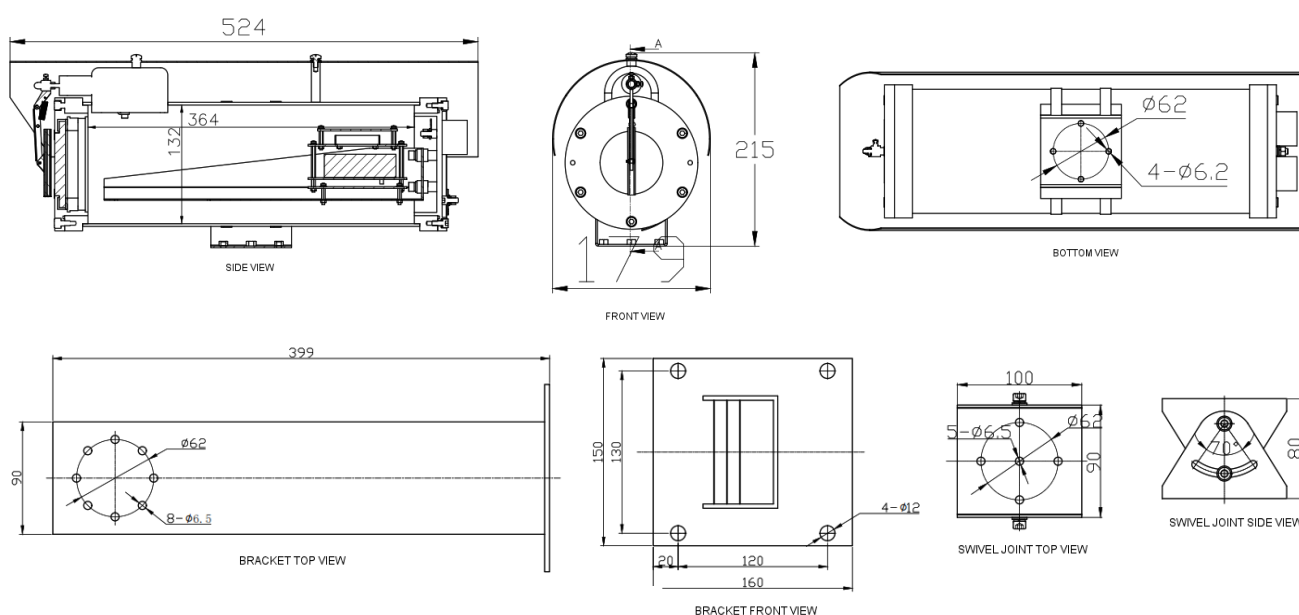
ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |


WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 16 Kg |
| Net weight (with bracket) | 20 Kg |

DIMENSIONS



ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|---|
| AXH19W | Stainless Steel 316L Explosion proof Fixed Housing with Window Wiper 100/240VAC (optional 24VAC), Receiver & Sunshield. ATEX/IECEX  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |

OPTIONAL ACCESSORIES

| | |
|--------|---|
| WD | Thermostatically controlled window defroster (activates at $0\pm 10^{\circ}\text{C}$, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |
| AXWS10 | 10 Liter Washer system with Explosion proof solenoid |



AVEX CCTV's IP68 rated AH35 Weatherproof Camera Housing provides safe and reliable protection for a wide range of cameras in harsh weather conditions.

WHEN SAFETY AND PERFORMANCE MATTERS

The AH35 camera housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 8mm thick tempered glass for extra durability while preserving image quality. Sunshield, Wall mount bracket, Auto-heater and Window Defroster are optional.

The optional wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AH35 camera housing can be fitted with a wide range of Analog and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

FEATURES

- Stainless Steel 316L
- Suitable for box cameras and lens or motorized zoom cameras
- Temperature Rating: -40°C ~ +60°C (with heater)
- Weather Resistant to IP68 & NEMA 6 & 6P Standards
- Designed for ease of installation and minimal maintenance
- Optional Sunshield, Auto-Heater, Window Defroster & Wall mount bracket
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

TECHNICAL DATA

COMPLIANCE

IP 68 / Nema Type 6/6P (Factory rated)

MECHANICAL

| | |
|-----------------------------|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Inner Dimensions | 260 (L) x 75 (W) x 75 (H) mm |
| Window | Tempered Glass |
| Window Glass Thickness | 8 mm |
| Window Glass Diameter | 75 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Mounting | Wall mount with bracket or Base mount without bracket |

ENVIRONMENT

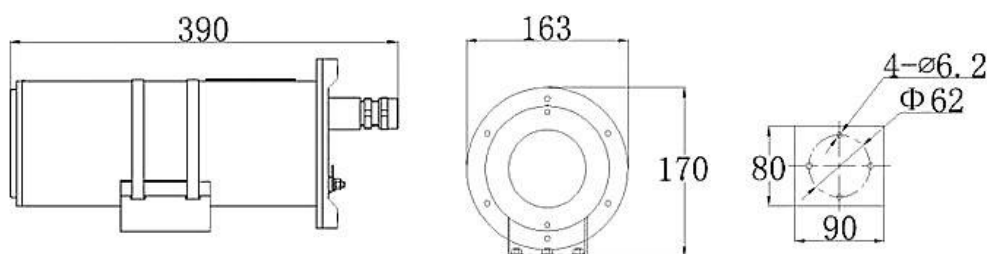
| | |
|--------------|---|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C with heater (-25°C without heater) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

| | |
|-------------|----------|
| Unit / Ship | 7 / 9 Kg |
|-------------|----------|

CAMERA OPTIONS

The housing can be supplied with Analog or Network Box Cameras and Lens or Motorized Zoom Camera Modules, upon request

EXTERNAL DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|---------|---|
| AH35 | Stainless Steel 316L Weatherproof IP68 Fixed Housing with Tempered Glass Window |

OPTIONAL ACCESSORIES

| | |
|------|--|
| AH | Thermostatically controlled heater (activates at 0°C) 110~230VAC (24VAC optional) |
| WD | Thermostatically controlled Windows Defroster (activates at 0°C) 110~230VAC (24VAC optional) |
| SS35 | Stainless Steel 316L Sunshield |
| WB35 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AJ40 | IP68 Junction/Termination Box |



AVEX CCTV's AH36R Weatherproof Camera Housing with IR Illuminator provides safe and reliable protection for a wide range of cameras in harsh weather conditions.

WHEN SAFETY AND PERFORMANCE MATTERS

The AH36R camera housing, with built-in IR Illuminator (60m), is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 10mm thick tempered glass for extra durability while preserving image quality.

Wall mount bracket and Thermostatically controlled heater are available as options. The Wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AH36R camera housing can be fitted with a wide range of Analog and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

FEATURES

- Stainless Steel 316L
- Suitable for box cameras and lens or motorized zoom cameras
- IR Illumination up to 60m
- Temperature Rating: -40°C ~ +60°C (with heater)
- Weather Resistant to IP68 & NEMA 6 & 6P Standards
- Designed for ease of installation and minimal maintenance
- Optional Auto-Heater & Wall mount bracket
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

TECHNICAL DATA

COMPLIANCE

IP 68 / Nema Type 6/6P (Factory rated)

MECHANICAL

| | |
|-----------------------------|--|
| Construction | Stainless Steel 316L |
| Finishing | Polished |
| Inner Dimensions | 200 (L) x 75 (W) x 75 (H) mm |
| Window | Tempered Glass |
| Window Glass Thickness | 10 mm |
| Window Glass Diameter | 120 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W / 65W (with heater) |

IR ILLUMINATOR

| | |
|----------------------|-----------|
| IR Distance | 60 meters |
| IR Power Consumption | 15 W |
| IR Angle | Up to 30° |
| IR Wavelength | 850 nm |

ENVIRONMENT

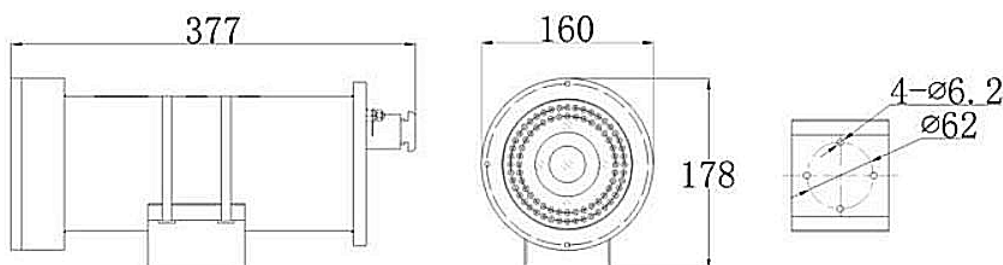
| | |
|--------------|---|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C with heater (-25°C without heater) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

| | |
|-------------|-----------------------------|
| Unit / Ship | 9 / 11 Kg (without bracket) |
|-------------|-----------------------------|

CAMERA OPTIONS

Various analog or network camera and lens options. Contact us on your requirements

EXTERNAL DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|-----------------------------|--|
| AH36R | Stainless Steel 316L Weatherproof IP68 Fixed Housing with IR Illuminator (60m), Receiver and Tempered Glass Window, 100/240VAC (optional 24VAC). |
| OPTIONAL ACCESSORIES | |
| AH | Thermostatically controlled heater (activates at 0±10°C, Power consumption 50W) |
| WB36 | Stainless Steel 316L Wall mount bracket with swivel joint |



AVEX CCTV's IP68 rated AH37W Weatherproof Camera Housing with Wiper provides safe and reliable protection for a wide range of cameras in harsh weather conditions.

WHEN SAFETY AND PERFORMANCE MATTERS

The AH37W housing with wiper is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality. The housing is standard supplied with Sunshield and Receiver.

Thermostatically controlled Heater, Window Defroster and Wall mount bracket are available as options. The wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AH37W is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

The AH37W camera housing with wiper can be fitted with a wide range of Analog and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

FEATURES

- Stainless Steel 316L
- Suitable for box cameras and lens or motorized zoom cameras
- Temperature Rating: -40°C ~ +60°C (with heater)
- IP68
- Wiper voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- Designed for ease of installation and minimal maintenance
- Standard supply includes Wiper, Sunshield and Receiver
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Industrial Environments
- Marine Industries
- Manufacturing Industries
- Oil & Gas Industries
- Construction Industries

TECHNICAL DATA

COMPLIANCE

IP 68 / Nema Type 6/6P (Factory rated)

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power (Wiper only) | 15W |

COMMUNICATION

RS485

Protocol: Pelco D (Pelco P only upon request)

Baud rate: 2400 (other baud rates upon request)

MECHANICAL

| | |
|-----------------------------|--|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Inner Dimensions | 210 (L) x 80 (W) x 80 (H) mm |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 75 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Mounting | Wall mount bracket with swivel joint or base mount |

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -40°C to +60°C with heater (-25°C without heater) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

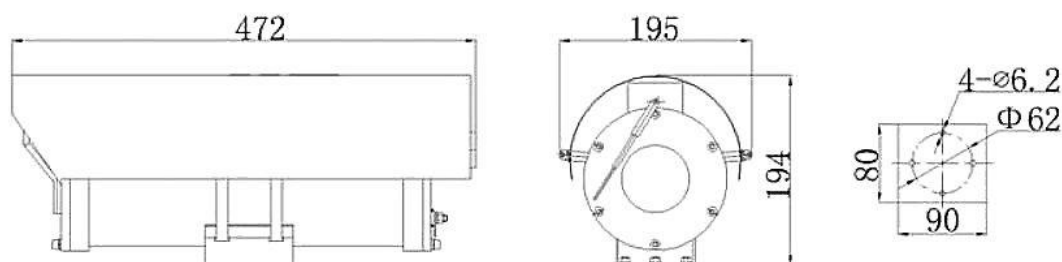
| | |
|-------------|---------------|
| Unit / Ship | 9.5 / 11.5 Kg |
|-------------|---------------|

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|---|
| AH37W | Stainless Steel 316L Weatherproof IP68 Fixed Housing with Wiper, 100/240VAC (optional 24VAC), Tempered Glass Window, Receiver & Sunshield |

OPTIONAL ACCESSORIES

| | |
|-------|---|
| AH | Thermostatically controlled heater (activates at 0±10°C, Power consumption 50W) |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) |
| WB37 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AJ40 | IP68 Junction/Termination Box |
| AWS10 | 10 Liter Washer system |

EXTERNAL DIMENSIONS



AVEX CCTV's AH38R Weatherproof Camera Housing with IR Illuminator provides safe and reliable protection for a wide range of cameras in harsh weather conditions.

WHEN SAFETY AND PERFORMANCE MATTERS

FEATURES

- Stainless Steel 316L
- Suitable for box cameras and lens or motorized zoom cameras
- IR Illumination up to 100m
- Temperature Rating: -50°C ~ +60°C (with heater)
- Weather Resistant to IP68 & NEMA 6 & 6P Standards
- Designed for ease of installation and minimal maintenance
- Standard supply includes Sunshield and Power module
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

The AH38R camera housing, with built-in IR Illuminator (100m), is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 10mm thick tempered glass for extra durability while preserving image quality. Standard supply includes sunshield and power module.

Thermostatically controlled heater, window defroster and wall mount bracket are available as options. The Wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AH38R camera housing can be fitted with a wide range of Analog and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

TECHNICAL DATA

COMPLIANCE

IP 68 / Nema Type 6/6P (Factory rated)

MECHANICAL

| | |
|-----------------------------|--|
| Construction | Stainless Steel 316L |
| Finishing | Polished |
| Inner Dimensions | 200 (L) x 75 (W) x 75 (H) mm |
| Window | Tempered Glass |
| Window Glass Thickness | 10 mm |
| Window Glass Diameter | 75 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W / 65W (with heater) |

IR ILLUMINATOR

| | |
|---------------|------------|
| IR Distance | 100 meters |
| IR Angle | Up to 30° |
| IR Wavelength | 850 nm |

ENVIRONMENT

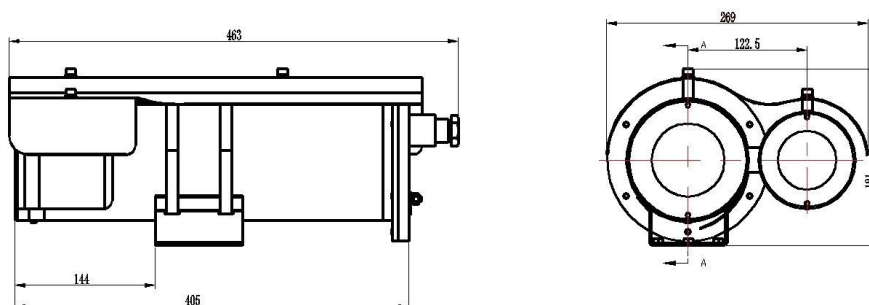
| | |
|--------------|---|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -50°C to +60°C with heater (-25°C without heater) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

| | |
|-------------|------------------------------|
| Unit / Ship | 11 / 13 Kg (without bracket) |
|-------------|------------------------------|

CAMERA OPTIONS

Various analog or network camera and lens options. Contact us on your requirements

EXTERNAL DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|-----------------------------|--|
| AH38R | Stainless Steel 316L Weatherproof IP68 Fixed Housing with IR Illuminator (100m), Tempered Glass Window, Receiver 100/240VAC (optional 24VAC) & Sunshield |
| OPTIONAL ACCESSORIES | |
| AH | Thermostatically controlled heater (activates at 0±10°C, Power consumption 50W) |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) |
| WB38 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AJ40 | IP68 Junction/Termination Box |



AVEX CCTV's AH39RW Weatherproof Camera Housing with IR Illuminator and Wiper provides safe and reliable protection for a wide range of cameras in harsh weather conditions.

WHEN SAFETY AND PERFORMANCE MATTERS

The AH39RW camera housing with built-in IR Illuminator (100m) and Wiper, is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality. Standard supply includes sunshield and receiver.

Thermostatically controlled heater, window defroster and wall mount bracket are available as options. The Wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

The AH39RW is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

The AH39RW camera housing can be fitted with a wide range of Analogue and Network box cameras and lens or motorized zoom cameras, making it the perfect choice for almost any application.

Cameras are not included. If required, please contact us.

FEATURES

- Stainless Steel 316L
- Suitable for box cameras and lens or motorized zoom cameras
- IR Illumination up to 100m
- Wiper voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- Temperature Rating: -50°C ~ +60°C (with heater)
- Weather Resistant to IP68 & NEMA 6 & 6P Standards
- Designed for ease of installation and minimal maintenance
- Standard supply includes Wiper, Sunshield and Receiver
- Fixed mount – Bracket with swivel joint or Base installation

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

TECHNICAL DATA

COMPLIANCE

IP 68 / Nema Type 6/6P (Factory rated)

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 25W |

COMMUNICATION

RS485

Protocol: Pelco D (Pelco P only upon request)

Baud rate: 2400 (other baud rates upon request)

MECHANICAL

| | |
|-----------------------------|--|
| Construction | Stainless Steel 316L |
| Finishing | Polished |
| Inner Dimensions | 200 (L) x 75 (W) x 75 (H) mm |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 75 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Mounting | Wall mount bracket with swivel joint or base mount |

IR ILLUMINATOR

| | |
|---------------|------------|
| IR Distance | 100 meters |
| IR Angle | Up to 30° |
| IR Wavelength | 850 nm |

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -50°C to +60°C with heater (-25°C without heater) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

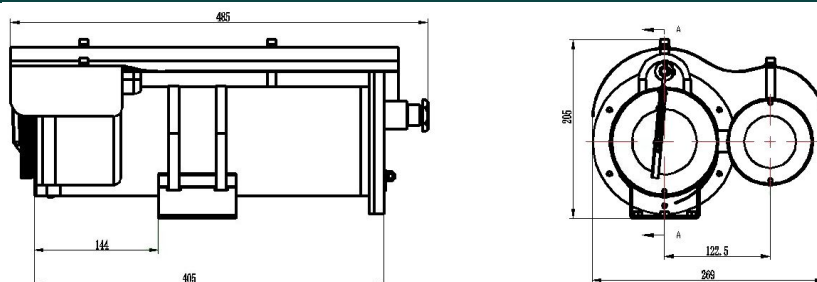
| | |
|-------------|------------|
| Unit / Ship | 12 / 14 Kg |
|-------------|------------|

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|--|
| AH39RW | Stainless Steel 316L Weatherproof IP68 Fixed Housing with IR Illuminator (100m), Wiper, 100/240VAC (optional 24VAC), Tempered Glass Window, Receiver & Sunshield |

OPTIONAL ACCESSORIES

| | |
|-------|---|
| AH | Thermostatically controlled heater (activates at 0±10°C, Power consumption 50W) |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) |
| WB39 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AJ40 | IP68 Junction/Termination Box |
| AWS10 | 10 Liter Washer system |

EXTERNAL DIMENSIONS



ZONE 1 & 2
ZONE 21 & 22



EXPLOSION PROOF CCTV CAMERA HOUSING WITH ANALOGUE ZOOM CAMERA

AXH19-1020



FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- Sony 1/4" Color Day/Night Camera
- 550 TVL
- 36X Optical zoom
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Designed for ease of installation and minimal maintenance
- Optional Window Defroster & Wall mount bracket

WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19-1020 Fixed Analogue Zoom CCTV Camera is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AXH19-1020 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

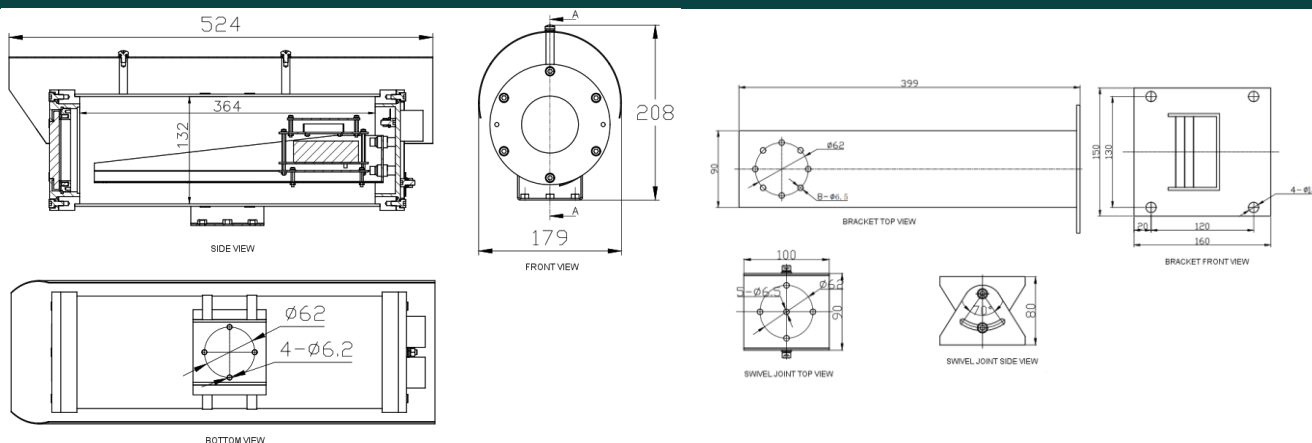
The AXH19-1020 is fitted with Sony 1/4" 550TVL Color Day/Night Camera. The 36X zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

Wall mount bracket and thermostatically controlled Window Defroster are optional. The optional wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

Other options available are:

- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

DIMENSIONS



TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

External 524 (L) x 208 (H) x 179 (W) mm

MECHANICAL

| | |
|---|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100/240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 10W |

COMMUNICATION

RS485

Protocol: Pelco D (Pelco P only upon request)

Baud rate: 2400 (other baud rates upon request)

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |


WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 15 Kg |
| Net weight (with bracket) | 19 Kg |

CAMERA

| | |
|----------------------------|---|
| Sony | 1/4-type EXview HAD CCD (Progressive Scan) |
| Signal systems | PAL |
| Effective picture elements | 440,000 pixels (PAL) |
| Lens | 36x optical zoom lens f=3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Digital Zoom | 12 x (432x with optical zoom) |
| Minimum object distance | 10 mm (wide) to 1,500 mm (tele), *Default: 320 mm |
| Horizontal viewing angle | 57.8 degrees (wide) to 1.7 degrees (tele) |
| Horizontal resolution | 550 TV Lines |
| Focus systems | Auto (Sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom Trigger AF, Focus Compensation in ICR On Mode |
| Minimum illumination | 1.4 lx (F1.6, 50IRE) |
| Video output | ANALOG: VBS: 1.0 Vp-p (sync negative), Y/C DIGITAL: Y/Cb/Cr 4:2:2 (comparable to ITU-R BT656) |
| Camera control | VISCA (TTL signal level) Baud rate: 9.6 kbps, 19.2 kbps, 38.4 kbps Stop bit: 1/2 bit selectable |
| Gain | Auto/Manual/Max. Gain Limit (-3 dB to +28 dB, 2 dB steps) |
| Exposure control | Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE |
| EV compensation | Yes |
| Backlight compensation | Yes |
| White balance | Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (fix/auto), One-push, Manual |
| S/N ratio | More than 50 dB |
| Picture effects | E-Flip, Nega Art, Black & White, Mirror image, Color Enhancement |
| Camera operation switch | Yes (Zoom Tele, Zoom Wide) |
| Image Stabilization | Yes |
| Digital output | Yes |
| Enhanced Noise Reduction | Yes |
| Auto ICR | Yes |
| Motion Detection | Yes |
| Alarm | Yes |

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|-----------------------------|---|
| AXH19-1020 | Stainless Steel 316L Explosion proof Fixed Housing with Sony 1/4" Color Day/Night Camera, 36X, 550TVL Resolution, Receiver 100/240VAC (optional 24VAC) & Sunshield. ATEX/IECEX  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |
| OPTIONAL ACCESSORIES | |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |



ZONE 1 & 2
ZONE 21 & 22



EXPLOSION PROOF CCTV CAMERA HOUSING WITH FULL HD NETWORK CAMERA

AXH19-3008



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19-3008 Fixed IP CCTV Camera is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- True Day/Night Camera
- 3MP Full HD IP Camera / 2048 x 1536 resolution
- ONVIF Profile S compliant
- 30X Optical zoom
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Designed for ease of installation and minimal maintenance
- Optional Window Defroster & Wall mount bracket

APPLICATIONS

- Offshore Industries
- Land based Industries
- Marine Industries
- Industrial
- Oil & Gas Industries
- Process Industries

The AXH19-3008 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

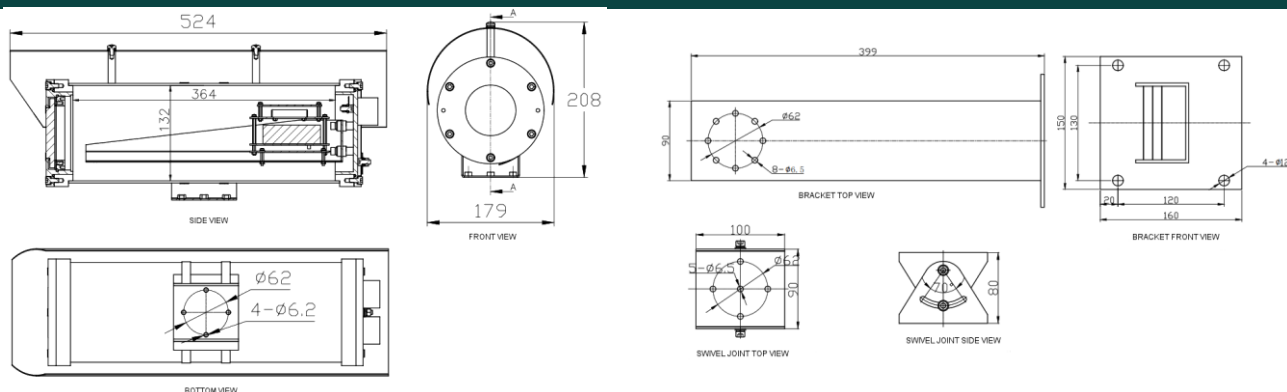
The AXH19-3008 is fitted with a 3-megapixel Full High Definition, 2048 x 1536 Resolution Day/Night IP Camera. The ONVIF Profile S compliant camera provides multiple video streams (H.265/H.264) and the 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

Wall mount bracket and thermostatically controlled Window Defroster are optional. The optional wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

Other options available are:

- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

DIMENSIONS



TECHNICAL DATA**COMPLIANCE****ATEX & IECEx**

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22

**Ingress Protection**

IP68 (1.2 m, 45 mins)

DIMENSIONS

External 524 (L) x 208 (H) x 179 (W) mm

MECHANICAL

Construction 316L Stainless Steel

Finishing Polished

Window Tempered Glass

Window Glass Thickness 12 mm

Window Glass Diameter 70 mm

No. of Cable Entries 2

Cable Entry Size/Thread M25/1.5

Max. Cable Passthrough Size 15 mm Max

Ex d Cable Glands/Plugs NOT Included Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013

Mounting Wall mount bracket with swivel joint or base mount

ELECTRICAL

Input Voltage 100/240VAC 50/60Hz (Standard) / 24VAC (Optional)

Input Voltage Range $\pm 10\%$

Power 10W

ENVIRONMENT

Air Pressure 80 ~ 120KPa

Temperature -40°C to +60°C with defroster (-25°C without defroster)

Humidity $\leq 95\%RH$ (+25°C)**WEIGHTS**


Net weight (without bracket) 15 Kg

Net weight (with bracket) 19 Kg

CAMERA

| | | |
|----------------------|-----------------------------|--|
| Camera | HIKVISION | 3 million 1/2.8" CMOS ICR day and night network HD Camera Module |
| | Sensor Type | 1/2.8" Progressive Scan CMOS |
| | Signal System | PAL / NTSC |
| | Day/Night conversion mode | ICR infrared filter type |
| | Color 0.05lux@1.6 | Minimum Illumination |
| | Signal to noise ratio | Greater than 52dB |
| | Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| | Optical zoom | 30 times |
| | Digital zoom | 12 times |
| | Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| | 3D noise reduction | Support |
| Lens | Focal length | 4.3 - 129mm, 30 times optical zoom |
| | Aperture | F1.6 - F4.4 |
| | Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| | Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| | Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |
| Menu Control | Exposure mode | Auto exposure / aperture priority / shutter priority / manual exposure |
| | Focus mode | Auto focus / One focus / Manual focus |
| | Wide dynamic | OFF / ON |
| Compression Standard | Video compression standard | H.265 / H.264 |
| | Compressed output code rate | 32kbps -12Mbps |
| | Audio compression standard | G.722.1, G.711-a law, G.711-u law, MP2L2, G.726, AAC, PCM |
| Internet Function | Storage function | Support micro SD |
| | Intelligent alarm | Motion detection, occlusion alarm, memory full, memory error |
| | Support protocols | TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP, optional) |
| Features | White balance | Auto 1 / Auto 2 / Indoor / Outdoor / Manual / Incandescent / Fluorescent |
| Interface | Interface Protocol | ONVIF, PSIA, CGI, ISAPI |

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|-----------------------------|--|
| AXH19-3008 | Stainless Steel 316L Explosion proof Fixed Housing with 3MP True HD Day/Night Network Camera, 30X, 2048 x 1536 Resolution, Receiver 100/240VAC (optional 24VAC) & Sunshield. ATEX/IECEx  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |
| OPTIONAL ACCESSORIES | |
| WD | Thermostatically controlled window defroster (activates at 0±10°C, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF CCTV CAMERA HOUSING WITH FULL HD NETWORK CAMERA



AXH19-6320



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEX certified explosion proof AXH19-6320 Fixed IP CCTV Camera is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEX certified
- Stainless Steel 316L construction
- True Day/Night Camera
- 2MP Full HD IP Camera / 1920 x 1080 resolution
- ONVIF Profile S compliant
- 32X Optical zoom
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Designed for ease of installation and minimal maintenance
- Optional Window Defroster & Wall mount bracket

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The AXH19-6320 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The AXH19-6320 is fitted with a 2-megapixel Full High Definition, 1920 x 1080 Resolution Day/Night IP Camera. The ONVIF Profile S compliant camera provides multiple video streams (H.264, MJPEG) and the 32X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

Wall mount bracket and thermostatically controlled Window Defroster are optional. The optional wall mount bracket is supplied with swivel joint for easy and accurate positioning of the housing.

Other options available are:

- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEX

ATEX certificate no. Presafe 18 ATEX 13083X

IECEX certificate no. IECEX PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|----------|--------------------------------|
| External | 524 (L) x 208 (H) x 179 (W) mm |
|----------|--------------------------------|

MECHANICAL

| | |
|---|--|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEX certified Ex db IIC Gb or/and Ex tb IIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100/240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 10W |

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 15 Kg |
| Net weight (with bracket) | 19 Kg |

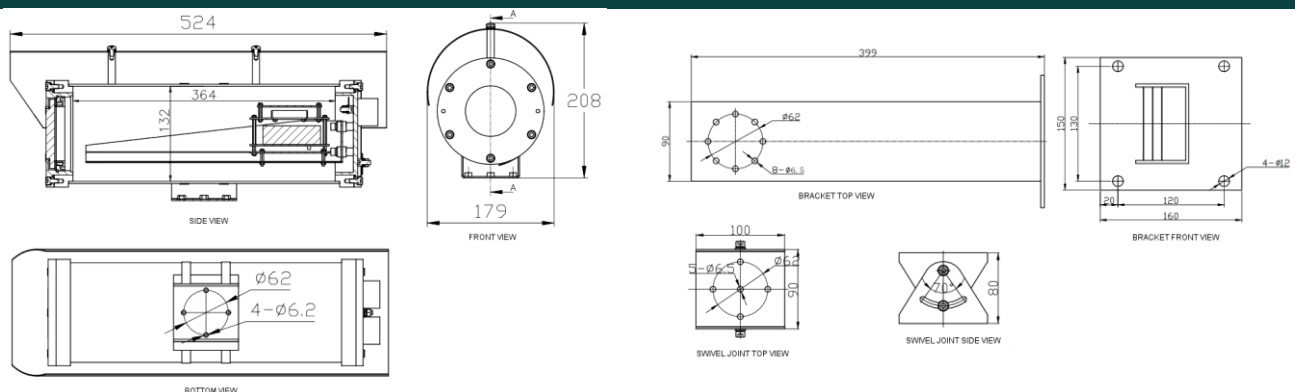
CAMERA

| | | |
|-------|--------------------------|---|
| | SAMSUNG | 2Megapixel Full HD Network Zoom Camera |
| Video | Imaging Device | 1/2.8" 2.4M CMOS |
| | Total / Effective Pixels | 1981(H) x 1288(V), 2.55M / 1944(H) x 1212(V), 2.35M |
| | Scanning System | Progressive |
| | Min. Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| | S / N Ratio | 50dB |
| | Video Output | CVBS : 1.0 Vp-p / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation USB : Micro USB type B, 1280 x 720, for installation |
| Lens | Focal Length | 4.44 ~ 142.6mm (Optical 32x) |
| | Max. Aperture Ratio | F1.6(Wide) / F4.4(Tele) |
| | Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| | Min. Object Distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| | Focus Control | Auto / Manual / One shot AF |
| | Lens / Mount Type | DC auto iris / Board-in type |


| | | |
|-----------|-----------------------------|--|
| Operation | Camera Title | Off / On (Displayed up to 85 characters) - W/W : English / Numeric / Special characters - China : English / Numeric/Special / Chinese characters - Common : Multi-line (Max 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution |
| | Day & Night | Auto (ICR) / Color / B/W / Schedule |
| | Backlight Compensation | Off / BLC / HLC / WDR |
| | Wide Dynamic Range | 150dB |
| | Contrast Enhancement | SSDR (Samsung Super Dynamic Range) (Off / On) |
| | Digital Noise Reduction | SSNR5 (2D+3D noise filter) (Off / On) |
| | Digital Image Stabilization | Off / On (Built-in gyro sensor) |
| | Defog | Off / Auto / Manual |
| | Motion Detection | Off / On (8ea, polygonal) |
| | Privacy Masking | Off / On (24 zones of rectangle zone) - Color: Grey / Green / Red / Blue / Black / White - Mosaic |
| | Gain Control | Off / Low / Middle / High |
| | White Balance | ATW / AWC / Manual / Indoor / Outdoor (Included Mercury & Sodium) |
| | Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1 ~ 1/12,000sec) |
| | Digital Zoom | 32x |
| | Flip / Mirror | Off / On |
| | Video & Audio Analytics | Tampering, Loitering, Directional detection, Fog detection, Virtual Line, Enter/Exit, Appear/Disappear, Audio detection, Face detection, Motion detection, Sound classification, Shock detection |
| | Serial Interface | RS-485/RS-422 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell |
| | Alarm I/O | Output 2ea (Relay) |
| | Alarm Triggers | Alarm input, Motion detection, Video & Audio analytics, Network disconnect |
| | Alarm Events | File upload via FTP and E-Mail, Notification via E-Mail, TCP and HTTP, Local storage (SD/SDHC/SDXC) or NAS recording at alarm triggers, External output, Preset |
| Network | Audio In | Selectable (Mic In/Line In) Supply voltage: 2.5VDC (4mA), Input impedance: approx. 2K Ohm |
| | Audio Out | Line out (3.5mm), Max. output level: 1 Vrms |
| | Pixel counter | Support |
| | Ethernet | Line out (3.5mm), Max. output level: 1 Vrms |
| | Video Compression Format | H.264 (MPEG-4 Part 10/AVC), H.265, Motion JPEG |
| | Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| | Max. Framerate | H.264 / H.265: Max. 60fps at all resolutions Motion JPEG: Max. 30fps at all resolutions |
| | Smart Codec | Manual mode (Area-based: 5ea) |
| | WiseStreamII | Support |
| | Video Quality Adjustment | H.264 / H.265 / MJPEG: Target bitrate level control |
| | Bitrate Control Method | H.264 / H.265 : CBR or VBR Motion JPEG : VBR |
| | Streaming Capability | Multiple streaming (Up to 10 profiles) |
| | Audio Compression Format | G.711 u-law / G.726 selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| | Audio Communication | Bi-directional (2-Way) |
| | IP | IPv4, IPv6 |
| | Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |

| | | |
|---------|-----------------------------------|---|
| | Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| | Streaming Method | Unicast / Multicast |
| | Max. User Access | 20 users at Unicast mode |
| | Edge Storage | Micro SD/SDHC/SDXC 2slot (up to 512 GB) - Continuous recording(1'st slot to 2'nd slot) - Motion Images recorded in the Micro SD/SDHC/SDXC memory card can be downloaded. NAS (Network Attached Storage) Local PC for instant recording |
| | Application Programming Interface | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| | Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| | Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser: Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only), Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser: MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| | Central Management Software | Wisenet WAVE, SmartViewer, SSM |
| General | Input Voltage / Current | 12VDC ± 10%, PoE (IEEE 802.3af, class3) |
| | Power Consumption | Max.6.7W (DC12V), Max.7W (PoE) |
| | Working temperature | -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH |

DIMENSIONS



ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------------|---|
| AXH19-6320 | Stainless Steel 316L Explosion proof Fixed Housing, pre-installed with 2MP True HD Day/Night Network Camera, 32x Zoom, 1920 x 1080 resolution, Receiver 100/240VAC (optional 24VAC) & Sunshield. ATEX/IECEx  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIC T80°C Db, IP68. |
| OPTIONAL ACCESSORIES | |
| WD | Thermostatically controlled window defroster (activates at 0 \pm 10°C, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF CCTV CAMERA HOUSING WITH WIPER AND ANALOGUE ZOOM CAMERA



AXH19W-1020



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19W-1020 Fixed CCTV Analogue Camera with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- Sony 1/4" Color Day/Night Camera
- 550 TVL
- 36X Optical zoom
- Voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Standard supply includes Window Wiper, Sunshield and Receiver

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The AXH19W-1020 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The AXH19W-1020 is fitted with Sony 1/4" 550TVL Color Day/Night Camera. The 36X zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

The AXH19W-1020 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

For easy and accurate positioning of the housing, a wall mount bracket with swivel joint is available as option. Window Wiper, Sunshield and Receiver are standard supply.

Other options available are:

- Thermostatically controlled Windows defroster
- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|----------|--------------------------------|
| External | 524 (L) x 208 (H) x 179 (W) mm |
|----------|--------------------------------|

MECHANICAL

| | |
|---|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEX certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL – WIPER ONLY

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W |

COMMUNICATION

| |
|---|
| RS485 |
| Protocol: Pelco D (Pelco P only upon request) |
| Baud rate: 2400 (other baud rates upon request) |

ENVIRONMENT

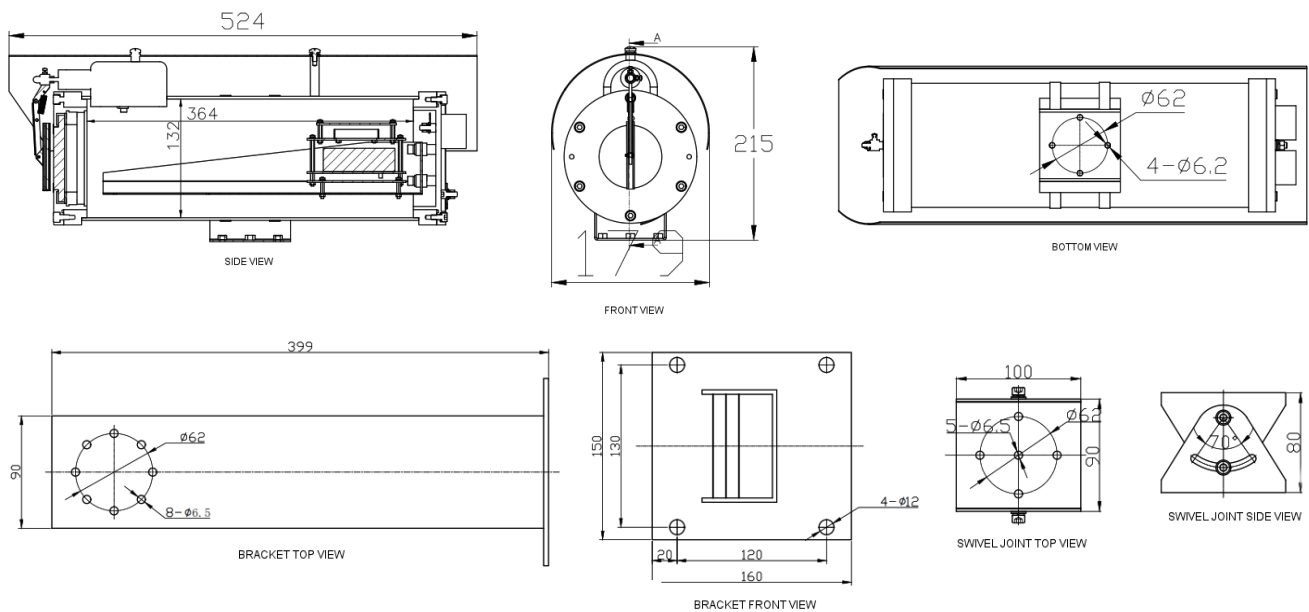
| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 16 Kg |
| Net weight (with bracket) | 20 Kg |

| CAMERA | |
|----------------------------|---|
| Sony | 1/4-type EXview HAD CCD (Progressive Scan) |
| Signal systems | PAL |
| Effective picture elements | 440,000 pixels (PAL) |
| Lens | 36x optical zoom lens f=3.4 mm (wide) to 122.4 mm (tele) F1.6 to F4.5 |
| Digital Zoom | 12 x (432x with optical zoom) |
| Minimum object distance | 10 mm (wide) to 1,500 mm (tele), *Default: 320 mm |
| Horizontal viewing angle | 57.8 degrees (wide) to 1.7 degrees (tele) |
| Horizontal resolution | 550 TV Lines |
| Focus systems | Auto (Sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom Trigger AF, Focus Compensation in ICR On Mode |
| Minimum illumination | 1.4 lx (F1.6, 50IRE) |
| Video output | ANALOG: VBS: 1.0 Vp-p (sync negative), Y/C DIGITAL: Y/Cb/Cr 4:2:2 (comparable to ITU-R BT656) |
| Camera control | VISCA (TTL signal level) Baud rate: 9.6 kbps, 19.2 kbps, 38.4 kbps Stop bit: 1/2 bit selectable |
| Gain | Auto/Manual/Max. Gain Limit (-3 dB to +28 dB, 2 dB steps) |
| Exposure control | Auto, Manual, Priority mode (shutter priority & iris priority), Bright, EV compensation, Slow AE |
| EV compensation | Yes |
| Backlight compensation | Yes |
| White balance | Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium Vapor Lamp (fix/auto), One-push, Manual |
| S/N ratio | More than 50 dB |
| Picture effects | E-Flip, Nega Art, Black & White, Mirror image, Color Enhancement |
| Camera operation switch | Yes (Zoom Tele, Zoom Wide) |
| Power requirements | DC 6.0 V to 12.0 V |
| Power consumption | 2.4 W (motors active: 5.1 W) |
| Operating temperature | -5°C to +60°C |
| Image Stabilization | Yes |
| Digital output | Yes |
| Enhanced Noise Reduction | Yes |
| Auto ICR | Yes |
| Motion Detection | Yes |
| Alarm | Yes |

DIMENSIONS



ORDERING INFORMATION

PART NO

DESCRIPTION

AXH19W-1020

Stainless Steel 316L Explosion proof Fixed Housing with Window Wiper 100/240VAC (optional 24VAC). Pre-installed with Sony 1/4" Color Day/Night Camera, 36x Zoom, 550TVL, PAL, Receiver and Sunshield. ATEX/IECEx $\text{Ex II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68}$.

OPTIONAL ACCESSORIES

| | |
|--------|---|
| WD | Thermostatically controlled window defroster (activates at $0\pm 10^\circ\text{C}$, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |
| AXWS10 | 10 Liter Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22



EXPLOSION PROOF CCTV CAMERA HOUSING WITH WIPER AND FULL HD NETWORK CAMERA

AXH19W-3008



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19W-3008 Fixed CCTV IP Camera with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- True Day/Night Camera
- 3MP Full HD IP Camera / 2048 x 1536 resolution
- ONVIF Profile S compliant
- 30X Optical zoom
- Voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Standard supply includes Window Wiper, Sunshield and Receiver

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The AXH19W-3008 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The AXH19W-3008 is fitted with a 3-megapixel Full High Definition, 2048 x 1536 Resolution Day/Night IP Camera with 30X optical zoom. The ONVIF Profile S compliant camera provides multiple video streams (H.265/H.264) and the 30X zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

The AXH19W-3008 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

For easy and accurate positioning of the housing, a wall mount bracket with swivel joint is available as option. Window Wiper, Sunshield and Receiver are standard supply.

Other options available are:

- Thermostatically controlled Windows defroster
- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|----------|--------------------------------|
| External | 524 (L) x 208 (H) x 179 (W) mm |
|----------|--------------------------------|

MECHANICAL

| | |
|---|---|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEX certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W |

COMMUNICATION

| |
|---|
| RS485 |
| Protocol: Pelco D (Pelco P only upon request) |
| Baud rate: 2400 (other baud rates upon request) |

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |

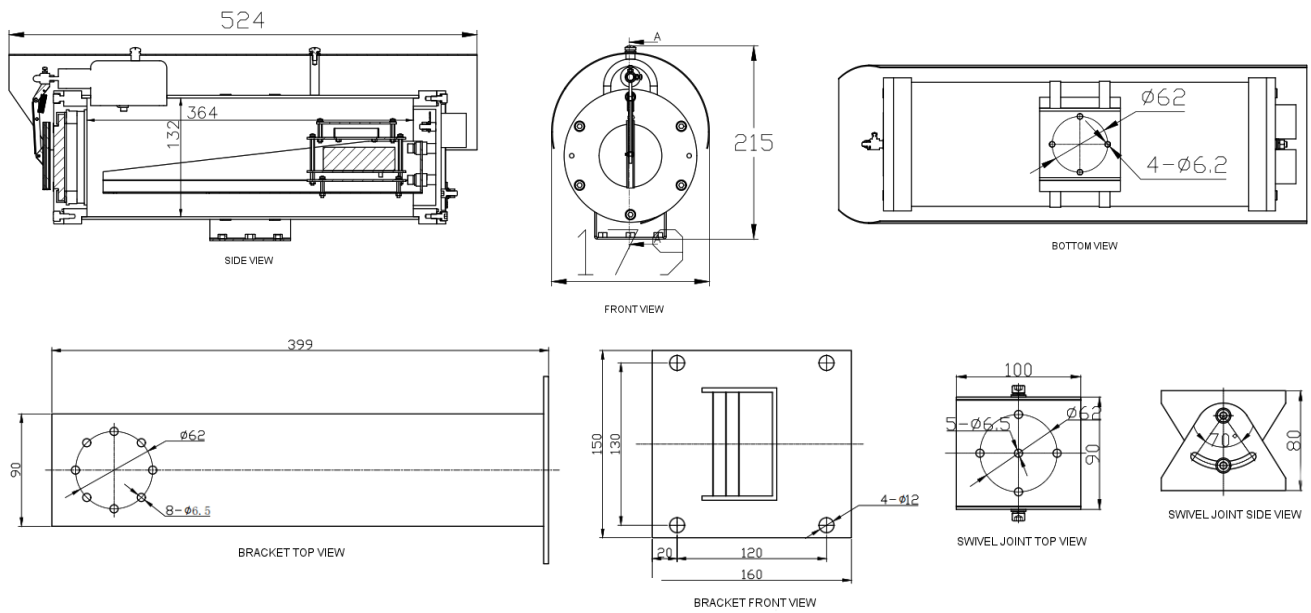
WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 16 Kg |
| Net weight (with bracket) | 20 Kg |

CAMERA

| | | |
|-----------------------|-----------------------------|--|
| Camera | Hikvision | 3 million 1/2.8" CMOS ICR day and night network HD Camera Module |
| | Sensor Type | 1/2.8" Progressive Scan CMOS |
| | Signal System | PAL / NTSC |
| | Day/Night conversion mode | ICR infrared filter type |
| | Color 0.05lux@1.6 | Minimum Illumination |
| | Signal to noise ratio | Greater than 52dB |
| | Electronic shutter | 1/1 second ~ 1/30,000 seconds |
| | Optical zoom | 30 times |
| | Digital zoom | 12 times |
| | Resolution | 50HZ: 25fps (2048 x 1536) 60HZ: 30fps (2048 x 1536) 50HZ: 25fps (1920 x 1080) 60HZ: 30fps (1920 x 1080) 50HZ: 25fps (1280 x 960) 60HZ: 30fps (1280 x 960) 50HZ: 25fps (1280 x 720) 60HZ: 30fps (1280 x 720) |
| | 3D noise reduction | Support |
| Lens | Focal length | 4.3 - 129mm, 30 times optical zoom |
| | Aperture | F1.6 - F4.4 |
| | Horizontal viewing angle | 58.9 - 2.11 degrees (wide angle - telephoto) |
| | Close-up distance | 10 - 1500mm (wide angle - telephoto) |
| | Zoom speed | about 3 seconds (optical, wide-angle - telephoto) |
| Menu Control | Exposure mode | Auto exposure / aperture priority / shutter priority / manual exposure |
| | Focus mode | Auto focus / One focus / Manual focus |
| | Wide dynamic | OFF / ON |
| Compression Standard | Video compression standard | H.265 / H.264 |
| | Compressed output code rate | 32kbps -12Mbps |
| | Audio compression standard | G.722.1, G.711-a law, G.711-u law, MP2L2, G.726, AAC, PCM |
| Internet Function | Storage function | Support micro SD |
| | Intelligent alarm | Motion detection, occlusion alarm, memory full, memory error |
| | Support protocols | TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP, optional) |
| Features | White balance | Auto 1 / Auto 2 / Indoor / Outdoor / Manual / Incandescent / Fluorescent |
| Interface | Interface Protocol | ONVIF, PSIA, CGI, ISAPI |
| General specification | Working temperature | -10° C ~ 60° C, humidity less than 90% (non-condensing) |
| | Power supply | DC12V ± 10% |
| | Power consumption | static 2.5W, dynamic 4.5W |

DIMENSIONS



ORDERING INFORMATION

| PART NO | DESCRIPTION |
|-------------|--|
| AXH19W-3008 | Stainless Steel 316L Explosion proof Fixed Housing with Window Wiper 100/240VAC (optional 24VAC). Pre-installed with 3MP True HD Day/Night Network Camera, 30x Zoom, 2048 x 1536 resolution, Receiver and Sunshield. ATEX/IECEX Ex II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |

OPTIONAL ACCESSORIES

| | |
|--------|---|
| WD | Thermostatically controlled window defroster (activates at $0\pm 10^\circ\text{C}$, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |
| AXWS10 | 10 Liter Washer system with Explosion proof solenoid |



ZONE 1 & 2
ZONE 21 & 22

EXPLOSION PROOF CCTV CAMERA HOUSING WITH WIPER AND FULL HD NETWORK CAMERA



AXH19W-6320



WHEN SAFETY AND PERFORMANCE MATTERS

The ATEX & IECEx certified explosion proof AXH19W-6320 Fixed CCTV IP Camera with Wiper is well suited for video surveillance in hazardous environments, zones 1 & 2 (Gas) and zones 21 & 22 (Dust), as well as in harsh weather conditions (IP68).

FEATURES

- ATEX & IECEx certified
- Stainless Steel 316L construction
- True Day/Night Camera
- 2MP Full HD IP Camera / 1920 x 1080 resolution
- ONVIF Profile S compliant
- 32X Optical zoom
- Voltage: 100~240VAC 50/60Hz (Standard) and 24VAC (Optional)
- IP68
- Temperature rating: -40°C ~ +60°C (with defroster)
- Standard supply includes Window Wiper, Sunshield and Receiver

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- Process Industries

The AXH19W-6320 housing is constructed from 316L stainless steel for maximum corrosion protection. The window of the housing is made of 12mm thick tempered glass for extra durability while preserving image quality.

The AXH19W-6320 is fitted with a Samsung 2-megapixel Full High Definition, 1920 x 1080 Resolution Day/Night IP Camera with 32X optical zoom. The ONVIF Profile S compliant camera provides multiple video streams and the 32X optical/digital zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

The AXH19W-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 manually pressurized 10-liter washer system to wash and wipe the window clean.

For easy and accurate positioning of the housing, a wall mount bracket with swivel joint is available as option. Window Wiper, Sunshield and Receiver are standard supply.

Other options available are:

- Thermostatically controlled Windows defroster
- AXE11 Explosion proof Ex d Enclosure/Junction box for cable termination use or to house fiber optics or other equipment.

TECHNICAL DATA

COMPLIANCE

ATEX & IECEx

ATEX certificate no. Presafe 18 ATEX 13083X

IECEx certificate no. IECEx PRE 18.0053X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



Ingress Protection

IP68 (1.2 m, 45 mins)

DIMENSIONS

| | |
|----------|--------------------------------|
| External | 524 (L) x 208 (H) x 179 (W) mm |
|----------|--------------------------------|

MECHANICAL

| | |
|---|--|
| Construction | 316L Stainless Steel |
| Finishing | Polished |
| Window | Tempered Glass |
| Window Glass Thickness | 12 mm |
| Window Glass Diameter | 70 mm |
| No. of Cable Entries | 2 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEX certified Ex db IIC Gb or/and Ex tb IIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |
| Mounting | Wall mount bracket with swivel joint or base mount |

ELECTRICAL

| | |
|---------------------|--|
| Input Voltage | 100 ~ 240VAC 50/60Hz (Standard) / 24VAC (Optional) |
| Input Voltage Range | ±10% |
| Power | 15W |

COMMUNICATION

| |
|---|
| RS485 |
| Protocol: Pelco D (Pelco P only upon request) |
| Baud rate: 2400 (other baud rates upon request) |

ENVIRONMENT

| | |
|--------------|---|
| Air Pressure | 80 ~ 120KPa |
| Temperature | -40°C to +60°C with defroster (-25°C without defroster) |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS

| | |
|------------------------------|-------|
| Net weight (without bracket) | 16 Kg |
| Net weight (with bracket) | 30 Kg |

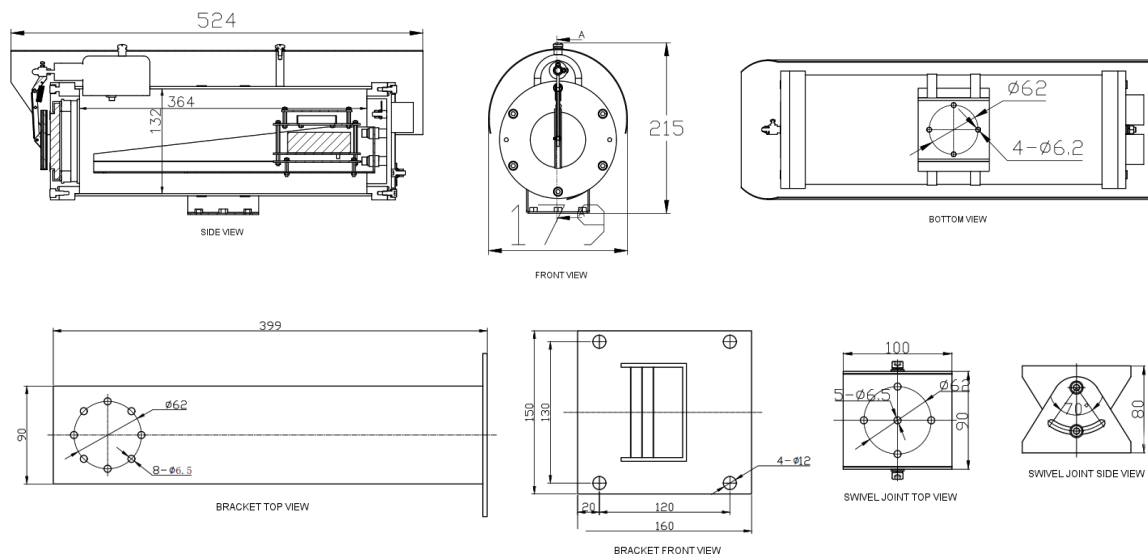
CAMERA

| | | |
|-------|--------------------------|---|
| | SAMSUNG | 2Megapixel Full HD Network Zoom Camera |
| Video | Imaging Device | 1/2.8" 2.4M CMOS |
| | Total / Effective Pixels | 1981(H) x 1288(V), 2.55M / 1944(H) x 1212(V), 2.35M |
| | Scanning System | Progressive |
| | Min. Illumination | Color: 0.05 Lux (1/30 sec, F1.6) / B/W: 0.005 Lux (1/30 sec, F1.6) |
| | S / N Ratio | 50dB |
| | Video Output | CVBS : 1.0 Vp-p / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation USB : Micro USB type B, 1280 x 720, for installation |
| Lens | Focal Length | 4.44 ~ 142.6mm (Optical 32x) |
| | Max. Aperture Ratio | F1.6(Wide) / F4.4(Tele) |
| | Angular Field of View | H: 61.8°(Wide) ~ 2.19°(Tele) / V: 36.2°(Wide) ~ 1.24°(Tele) |
| | Min. Object Distance | Wide 1.5m (4.92ft), Tele 2m (6.56ft) |
| | Focus Control | Auto / Manual / One shot AF |
| | Lens / Mount Type | DC auto iris / Board-in type |


| | | |
|-----------|-----------------------------|--|
| Operation | Camera Title | Off / On (Displayed up to 85 characters) - W/W : English / Numeric / Special characters - China : English / Numeric/Special / Chinese characters - Common : Multi-line (Max 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution |
| | Day & Night | Auto (ICR) / Color / B/W / Schedule |
| | Backlight Compensation | Off / BLC / HLC / WDR |
| | Wide Dynamic Range | 150dB |
| | Contrast Enhancement | SSDR (Samsung Super Dynamic Range) (Off / On) |
| | Digital Noise Reduction | SSNR5 (2D+3D noise filter) (Off / On) |
| | Digital Image Stabilization | Off / On (Built-in gyro sensor) |
| | Defog | Off / Auto / Manual |
| | Motion Detection | Off / On (8ea, polygonal) |
| | Privacy Masking | Off / On (24 zones of rectangle zone) - Color: Grey / Green / Red / Blue / Black / White - Mosaic |
| | Gain Control | Off / Low / Middle / High |
| | White Balance | ATW / AWC / Manual / Indoor / Outdoor (Included Mercury & Sodium) |
| | Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1 ~ 1/12,000sec) |
| | Digital Zoom | 32x |
| | Flip / Mirror | Off / On |
| | Video & Audio Analytics | Tampering, Loitering, Directional detection, Fog detection, Virtual Line, Enter/Exit, Appear/Disappear, Audio detection, Face detection, Motion detection, Sound classification, Shock detection |
| | Serial Interface | RS-485/RS-422 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell |
| | Alarm I/O | Output 2ea (Relay) |
| | Alarm Triggers | Alarm input, Motion detection, Video & Audio analytics, Network disconnect |
| | Alarm Events | File upload via FTP and E-Mail, Notification via E-Mail, TCP and HTTP, Local storage (SD/SDHC/SDXC) or NAS recording at alarm triggers, External output, Preset |
| Network | Audio In | Selectable (Mic In/Line In) Supply voltage: 2.5VDC (4mA), Input impedance: approx. 2K Ohm |
| | Audio Out | Line out (3.5mm), Max. output level: 1 Vrms |
| | Pixel counter | Support |
| | Ethernet | Line out (3.5mm), Max. output level: 1 Vrms |
| | Video Compression Format | H.264 (MPEG-4 Part 10/AVC), H.265, Motion JPEG |
| | Resolution | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 |
| | Max. Framerate | H.264 / H.265: Max. 60fps at all resolutions Motion JPEG: Max. 30fps at all resolutions |
| | Smart Codec | Manual mode (Area-based: 5ea) |
| | WiseStreamII | Support |
| | Video Quality Adjustment | H.264 / H.265 / MJPEG: Target bitrate level control |
| | Bitrate Control Method | H.264 / H.265 : CBR or VBR Motion JPEG : VBR |
| | Streaming Capability | Multiple streaming (Up to 10 profiles) |
| | Audio Compression Format | G.711 u-law / G.726 selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| | Audio Communication | Bi-directional (2-Way) |
| | IP | IPv4, IPv6 |
| | Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour |

| | |
|-----------------------------------|---|
| Security | HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X Authentication (EAP-TLS, EAP-LEAP) |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 users at Unicast mode |
| Edge Storage | Micro SD/SDHC/SDXC 2slot (up to 512 GB) - Continuous recording(1'st slot to 2'nd slot) - Motion Images recorded in the Micro SD/SDHC/SDXC memory card can be downloaded. NAS (Network Attached Storage) Local PC for instant recording |
| Application Programming Interface | ONVIF Profile S/G, SUNAPI 2.0 (HTTP API), Wisenet Open Platform |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Plug-in Free Webviewer supported browser: Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only), Apple Safari 10 (Mac OS X only) Plug-in Webviewer supported browser: MS Explorer 11, Apple Safari 10 (Mac OS X only) |
| Central Management Software | Wisenet WAVE, SmartViewer, SSM |
| General | Input Voltage / Current |
| | 12VDC \pm 10%, PoE (IEEE 802.3af, class3) |
| | Power Consumption |
| | Max.6.7W (DC12V), Max.7W (PoE) |
| | Working temperature |
| | -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH |

DIMENSIONS







ORDERING INFORMATION




| PART NO | DESCRIPTION |
|-----------------------------|--|
| AXH19W-6320 | Stainless Steel 316L Explosion proof Fixed Housing with Window Wiper 100/240VAC (optional 24VAC). Pre-installed with 2MP True HD Day/Night Network Camera, 32x Zoom, 1920 x 1080 resolution, Receiver and Sunshield. ATEX/IECEx  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |
| OPTIONAL ACCESSORIES | |
| WD | Thermostatically controlled window defroster (activates at 0 \pm 10°C, Power consumption 15W) |
| WB19 | Stainless Steel 316L Wall mount bracket with swivel joint |
| AXE11 | Explosion proof Ex 'd' Enclosure/Junction box |
| AXWS10 | 10 Liter Washer system with Explosion proof solenoid |



ENCLOSURES / JUNCTION BOXES SELECTION CHART

| | Model | Material | Material | IP Rating | Internal Size (W x D x H /mm) | Page |
|--|---------|---------------------------------------|----------|-----------|-------------------------------|------|
| EXPLOSION PROOF ATEX / IECEx – STAINLESS STEEL | | | | | | |
|   | AXE11-E | Explosion proof Empty Control box | SS316L | IP68 | Φ 230 x 120 | 100 |
| WEATHERPROOF SAFE AREA – STAINLESS STEEL | | | | | | |
|  | AE20 | Weatherproof Enclosure/Junction box | SS316L | IP66 | 220 x 160 x 75 | 102 |
|  | AJ40 | Weatherproof Termination/Junction box | SS316L | IP68 | Φ 100 x 75 | 104 |

MANUALLY PRESSURIZED CAMERA WASHER SYSTEM SELECTION CHART

| | Model | Material | Solenoid IP Rating | Solenoid Voltage | External Size (W x D x H /mm) | Head Height | Page |
|--|--------|----------|--------------------|---|-------------------------------|-------------|------|
| EXPLOSION PROOF ATEX / IECEx – STAINLESS STEEL | | | | | | | |
|   | AXWS10 | SS316L | IP65 | 200VDC / 230VAC / 110VDC/AC / 48VDC/AC / 24VDC/AC | 366 x 320 x 615 | 10m | 105 |
| WEATHERPROOF SAFE AREA – STAINLESS STEEL | | | | | | | |
|  | AWS10 | SS316L | IP65 | 220/240VAC / 110/120VAC / 24VDC/AC / DC12V | 366 x 320 x 615 | 10m | 106 |



ZONE 1 & 2
ZONE 21 & 22

**EXPLOSION PROOF STAINLESS STEEL
RUGGEDIZED ENCLOSURE/JUNCTION BOX**



AXE11-E



FEATURES

- Stainless Steel 316L material
- ATEX & IECEx Certified
- Supplied with 4 x M25 cable entries
- Temperature Rating: -40°C ~ +60°C
- Weather Resistant to IP68
- Designed for ease of installation and minimal maintenance

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's AXE11-E Explosion proof Stainless Steel Enclosure/Junction Box provides safe and reliable protection for all your electronic equipment in ATEX & IECEx Zones 1 & 2 (Gas) and Zones 21 & 22 (Dust) areas.

The AXE11-E stainless steel enclosure/junction box is ideal for housing telemetry receivers, IP encoders, fiber optic converters and a wide range of other electronic and communication equipment. The Ex 'd' Flameproof certification of the enclosure makes equipment housed in it suitable for use in ATEX & IECEx Gas Zones 1 & 2 and Dust Zones 21 & 22 hazardous area locations. In addition, the weatherproof protection to IP68 standard, ensures that the AXE11-E is suitable for use in extremely harsh weather conditions.

TECHNICAL DATA

COMPLIANCE

ATEX

ATEX certificate no. Presafe 18 ATEX 13084X

IECEx certificate no. IECEx PRE 18.0054X

CE 2776

Ex II 2 G Ex db IIC T6 Gb – Suitable for Gas Zone 1 & 2

Ex II 2 D Ex tb IIIC T80°C Db – Suitable for Dust Zone 21 & 22



INGRESS PROTECTION

IP 68 (1.2 m, 45 min)

MECHANICAL

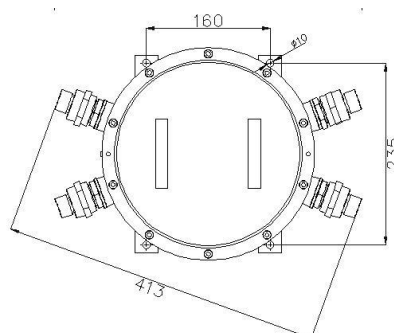
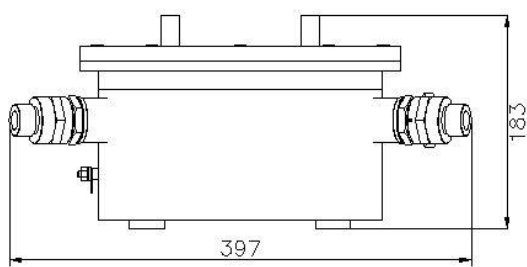
| | |
|---|---|
| Construction | Stainless Steel 316L |
| Finishing | Polished |
| Internal size | Ø 230 x 120 mm |
| No. of Cable Entries | 4 |
| Cable Entry Size/Thread | M25/1.5 |
| Max. Cable Passthrough Size | 15 mm Max |
| Ex d Cable Glands/Plugs NOT Included | Customer needs to supply and use ATEX/IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP68 cable gland with sealing compound, in accordance with IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 |


ENVIRONMENT

| | |
|--------------|--------------------------------|
| Air Pressure | 80 ~ 110KPa |
| Temperature | -40°C to +60°C |
| Humidity | ≤95%RH (+25°C) No condensation |

WEIGHTS (UNIT / SHIP)

15 / 17 Kg

EXTERNAL DIMENSIONS**ORDERING INFORMATION**

| PART NO | DESCRIPTION |
|---------|---|
| AXE11 | Stainless Steel 316L Empty Ex-Enclosure/Junction box. ATEX/IECEx  II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80°C Db, IP68. |



FEATURES

- Stainless Steel 316 or 304 material
- Supplied with 6 outlets
- Temperature Rating: -25°C ~ +60°C
- Weather Resistant to IP66 & NEMA 4X Standards
- Designed for ease of installation and minimal maintenance
- Ideal for housing of telemetry receivers, IP encoders, fiber optic converters and other electronic and communication equipment

APPLICATIONS

AVEX CCTV's AE20 Weatherproof Stainless Steel Enclosure provides safe and reliable protection for all your electronic equipment in locations where extreme weather conditions are of concern.

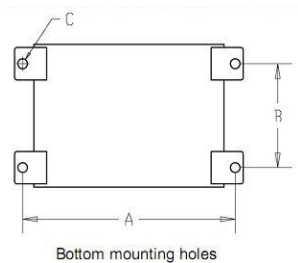
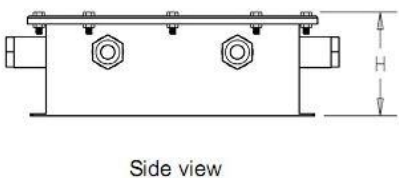
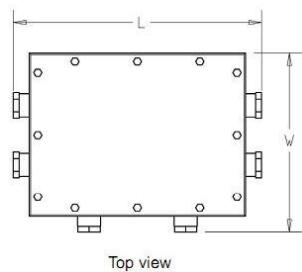
- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

WHEN SAFETY AND PERFORMANCE MATTERS

The AE20 stainless steel enclosure can be used to house a wide range of electronic and communication equipment. The IP66 & Nema 4X rating ensures that the AE20 is suitable for use in almost any safe area indoor & outdoor location and the internal components are protected against harsh weather conditions.

Standard supply includes 6 x G3/4" cable entries with stainless steel gland nuts suitable for Non-armored cables with Max. OD of 12mm. Internal mounting plate is supplied as standard.

EXTERNAL DIMENSIONS



| | |
|---|------|
| L | 360 |
| W | 260 |
| H | 110 |
| A | 265 |
| B | 130 |
| C | 4-φ8 |

TECHNICAL DATA**COMPLIANCE**

IP 66 / Nema 4X (Factory rated)

MECHANICAL

| | |
|-------------------------|--|
| Internal size | 220 (L) x 160 (W) x 75 (H) mm |
| Cable outlets | 6 |
| Entry size | G3/4" |
| Construction | Stainless Steel 316 material |
| External Surface Finish | Epoxy Coated Beige Color (Other RAL colors available, subject to minimum quantities) |

ENVIRONMENT

| | |
|--------------|----------------|
| Air Pressure | 86 ~ 106KPa |
| Temperature | -25°C to +60°C |
| Humidity | ≤95%RH (+25°C) |

WEIGHTS (UNIT / SHIP)

5 / 8 Kg

WARRANTY

Standard 18 months warranty against manufacturing defect

Standard Avex warranty terms and conditions apply

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|----------------|--|
| AE20-316 | Stainless Steel 316 Empty Weatherproof Enclosure/Junction box with internal mounting plate. Terminals/connectors not included |



FEATURES

- Stainless Steel 316L
- 4 x M25 Cable entries
- Supplied with 2 Cable glands & 2 Blanking plugs
- Supplied with wire 6 terminal blocks
- Temperature Rating: -25°C ~ +60°C
- Weather Resistant to IP66 & NEMA 4X Standards
- Designed for ease of installation and minimal maintenance
- Ideal for use as CCTV termination junction box

APPLICATIONS

- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

AVEX CCTV's AJ40 Weatherproof Stainless Steel Junction Box provides safe and reliable protection for your wire termination in locations where extreme weather conditions are of concern.

WHEN SAFETY AND PERFORMANCE MATTERS

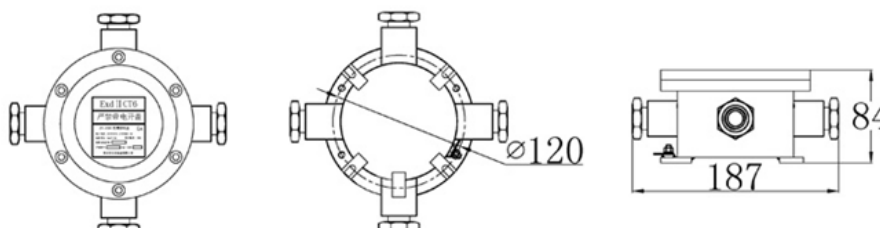
TECHNICAL DATA

| | |
|----------------------|---|
| Ingress Protection | IP 68 / Nema 6 (Factory rated) |
| Construction | Stainless Steel 316L material |
| Internal size | Φ100 * 75mm |
| Cable entries | 4 x M25 |
| Cable Glands / Plugs | Supplied with 2 stainless steel cable glands (suitable for non-armored cable of Max. 15mm OD) and 2 stainless steel blanking plugs. |
| Terminals | 6 terminal blocks |
| Air Pressure | 86 ~ 106KPa |
| Temperature | -25°C to +60°C |
| Humidity | ≤95%RH (+25°C) |
| Weight | 3.5kg |

ORDERING INFORMATION

| PART NO | DESCRIPTION |
|---------|--|
| AJ40 | Stainless Steel 316L Weatherproof IP68 Junction Box with 4 x M25 Cable entries & 6 terminal blocks |

EXTERNAL DIMENSIONS





WHEN SAFETY AND PERFORMANCE MATTERS

PRODUCT BRIEF

The AXWS-10 pressurized washer system with integral explosion proof solenoid valve & pressure gauge has been developed for use with AVEX or third party camera stations in hazardous area locations as well as outdoor and general areas, making it ideally suited for use in the industrial, offshore & marine industries.

The AXWS-10 pressurized washer system enables remote washing of the camera station glass windows.

The fluid tank is manually pressurized and incorporates a built-in pressure gauge. The wash fluid is released by activation of the ATEX/IECEX approved integral solenoid valve. An important feature of the AXWS-10 design is the “Y” strainer, which filters and prevents any dirt in the water from entering and clogging up the solenoid valve, ensuring long lasting and smooth operation of the system.

The explosion proof solenoid valve can be activated remotely via the camera telemetry receiver or manually via a ON/OFF switch supplied by customer. The explosion proof solenoid coil can be supplied in different voltages according to site power availability.

IMPORTANT NOTE

Only the Solenoid is ATEX/IECEX certified. The other components of the AXWS Series washer systems are only hardware and do not contain any potential ignition sources. As such, only a copy of the ATEX & IECEX certificate for the solenoid will be provided with the washer system.

SPECIFICATIONS

| | |
|-----------------------------|---|
| Solenoid Certification | ATEX II 2 G Ex e mb II T4/T5 Gb IECEX Ex e mb IIC T4/T5 Gb |
| Solenoid Ingress Protection | IP65 (Solenoid only) |
| Cabinet Material | Stainless Steel 316L |
| Solenoid Voltage | 200VDC / 230VAC, 110VDC/AC, 48VDC/AC, 24VDC/AC (Please specify voltage & 50Hz or 60Hz when ordering) |
| Ambient Temperature | -20°C to +60°C |
| Max Fluid Temperature | +60°C |
| Power Consumption | 10W AC/DC |
| Head Height | 10 meters |
| Cabinet Dimensions | W300 x D300 x H745 mm |
| Weight (Unit/Ship) | 21Kg / 22Kg |

FEATURES

- Stainless Steel 316L cabinet
- Stainless Steel 10 Liter Pressurized Tank with Pressure Gauge
- ATEX / IECEX Approved Solenoid
- Designed for use in almost any Marine and Industrial applications in hazardous or general area locations
- Suitable for use with water and anti-freeze additives
- Valve filter for long lasting maintenance free smooth operation

AVEX CCTV's AXWS-10 Explosion proof Pressurized CCTV Washer System provides safe and reliable camera window washing in **ATEX & IECEX Zone 1 & 2** areas.



FEATURES

- Stainless Steel 316L cabinet
- Stainless Steel 10 Liter Pressurized Tank with Pressure Gauge
- Weatherproof IP65 Solenoid
- Designed for use in almost any Marine and Industrial applications in non-hazardous area locations
- Suitable for use with water and anti-freeze additives
- Valve filter for long lasting maintenance free smooth operation

WHEN SAFETY AND PERFORMANCE MATTERS

AVEX CCTV's AWS-10 Weatherproof Pressurized CCTV Washer System provides safe and reliable camera window washing in extreme weather conditions.

PRODUCT BRIEF

The AWS-10 pressurized washer system with integral weatherproof solenoid valve & pressure gauge has been developed for use with AVEX or third party camera stations in outdoor and general area locations, making it ideally suited for use in the industrial, offshore & marine industries.

The AWS-10 pressurized washer system enables remote washing of the camera station glass windows.

The fluid tank is manually pressurized and incorporates a built-in pressure gauge. The wash fluid is released by activation of the weatherproof integral solenoid valve. An important feature of the AWS-10 design is the "Y" strainer, which filters and prevents any dirt in the fluid from entering and clogging up the solenoid valve, ensuring long lasting and smooth operation of the system.

The weatherproof solenoid valve can be activated remotely via the camera telemetry receiver or manually via a ON/OFF switch supplied by customer. The weatherproof solenoid coil can be supplied in different voltages according to site power availability.

IMPORTANT NOTE

Only the Solenoid is IP65 factory rated. The other components of the AWS Series washer systems are only hardware and do not require weatherproof protection.

SPECIFICATIONS

| | |
|-----------------------------|--|
| Solenoid Ingress Protection | IP65 (Solenoid only) |
| Cabinet Material | Stainless Steel 316L |
| Solenoid Voltage | AC24V, AC110/120V, AC220/240V DC12V, DC24V (Please specify voltage & 50Hz or 60Hz when ordering) |
| Ambient Temperature | Coil & Valve: -10°C to +80°C |
| Max Fluid Temperature | +80°C |
| Power Consumption | AC: 22VA DC: 17W |
| Head Height | 10 meters |
| Cabinet Dimensions | W300 x D300 x H745 mm |
| Weight (Unit/Ship) | 20Kg / 21Kg |



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