

WHEN QUALITY AND PERFORMANCE MATTERS

NEX
AVEX CCTV PTE LTD



**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.

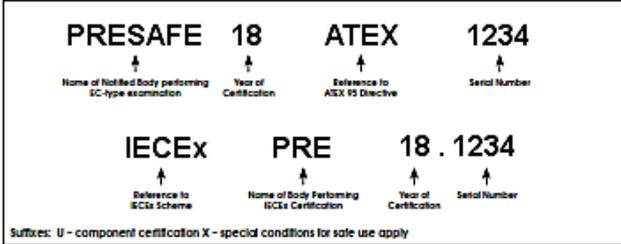
Our Global Reach

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.



ATEX & IECEx Certificate Number



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 freedamp)	M1	Ma	Methane & Dust	Very High	Two faults, remain energized and functioning
I (Mines with freedamp)	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

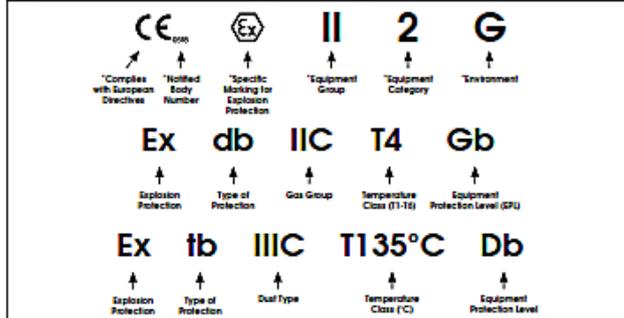
Apparatus Groups (ATEX and IECEx)

Group	Environment	Location	Typical Substance
I	Gases, Vapour	Coal Mining	Methane (Free damp)
IA		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
IB			Di-ethyl ether, Ethylene, Methyl ethyl ketone (MEK), Propan-1-ol (n-propyl alcohol), Ethanol (ethyl alcohol)
IC			Acetylene, Hydrogen, Carbon disulphide
IIA	Combustible Dusts	Surface and other locations	Combustible flyings
IIB			Non-conductive
IIC			Conductive

Temperature Classification

Classification of maximum surface temperatures for Group II Electronic Equipment (T Class)			
IA	T1	Ammonia	630°
IC	T1	Hydrogen	560°
IA	T1	Methane	537°
IA	T1	Propane	470°
IB	T2	Ethylene	425°
IA	T2	Butane	372°
IC	T2	Acetylene	305°
IA	T3	Cyclohexane	259°
IA	T3	Kerosene	210°
IB	T4	Diethyl Ether	160°
IC	T6	Carbon Disulphide	95°

Typical ATEX & IECEx Marking (*ATEX only)



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 Gc	1, 2 0, 1, 2 0, 1, 2	IEC 60079-28	Protection against ignitions from optical radiation
Increased Safety	ib ec	Gb Gc	1, 2 2	IEC 60079-7	No arcs, sparks or hot surfaces, Enclosure PSM 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 60079-6	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	Protection by encapsulation of incandescent parts
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 Dc	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 61214-4	Protection by pressurization of enclosure

Non-Electrical Equipment					
General Requirements	-	-	-	EN 13653-1	Low potential energy
Flow Restricted Enclosure	fr	Ga, Gb, Gc Da, Db, Dc	0, 1, 2 20, 21, 22	IEC 80079-36	-
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
Constructional Safety	ch	Ga, Gb, Gc Da, Db, Dc	0, 1, 2 20, 21, 22	IEC 80079-37	-
Control of Ignition Source	bi	-	-	EN 13653-6	Control equipment fitted to detect malfunctions
Control of Ignition Source	bi	Ga, Gb, Gc Da, Db, Dc	0, 1, 2 20, 21, 22	IEC 80079-37	-
Pressurization	p	-	1, 2 21, 22	EN 60079-2 EN 61214-4	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	kh	Ga, Gb, Gc Da, Db, Dc	0, 1, 2 20, 21, 22	IEC 80079-37	-

Dusts Typical Ignition Temperatures (°C)		
Dusts	Cloud	Layer
Aluminium	590 °C	>850 °C
Coal dust (lignite)	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) 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.

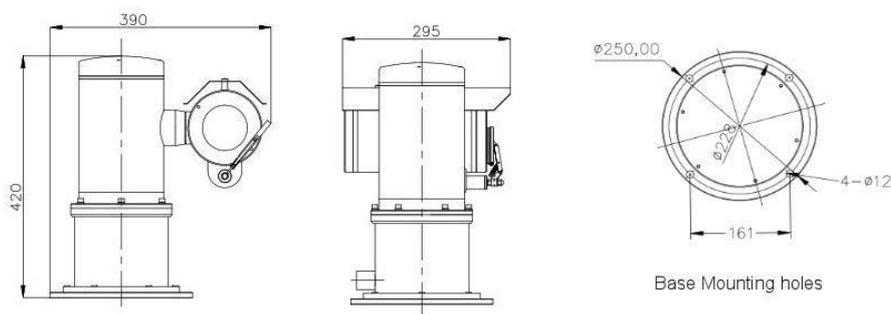
The AX15 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash 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
	Total: 432X
Zoom Ratio	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.

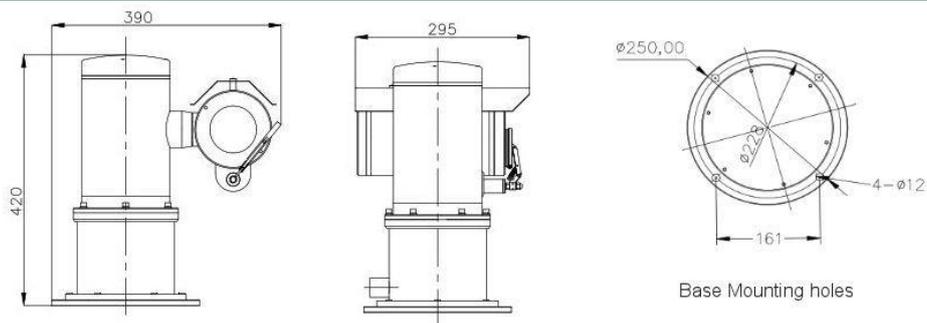
The AX15-N is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash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



AX15-N-6320



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).

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

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.

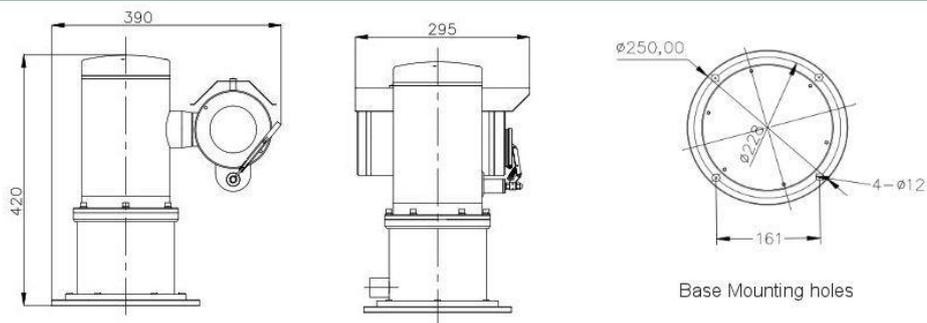
The AX15-N-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system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

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.
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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
- Marine Industries
- Oil & Gas Industries
- Land based Industries
- Industrial
- 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.

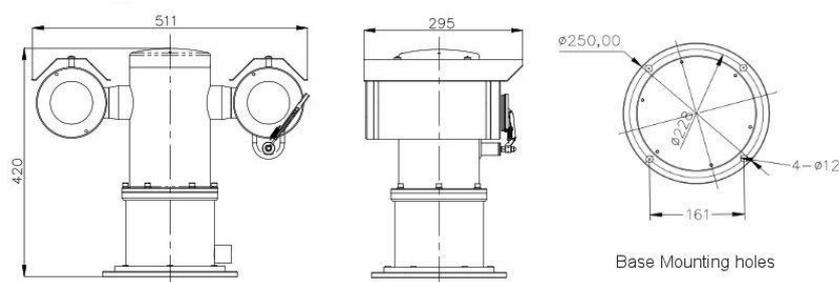
The built-in Sony 1/4" 550TVL Color Day/Night Camera with 36X optical zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions. The LED IR Illuminator with 850nm wavelength and distance of up to 100meters, delivers superior CCTV footage at night.

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

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 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
	Total: 432X
Zoom Ratio	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.

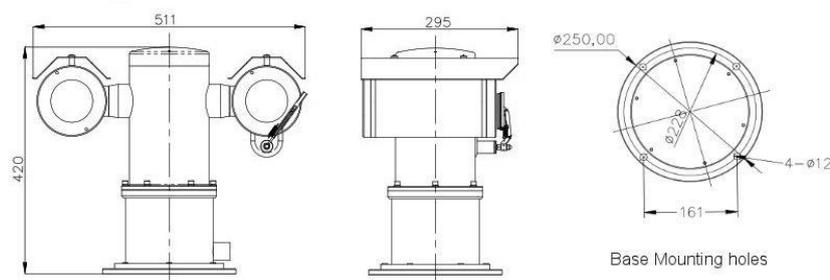
The AX15R-N is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system to wash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

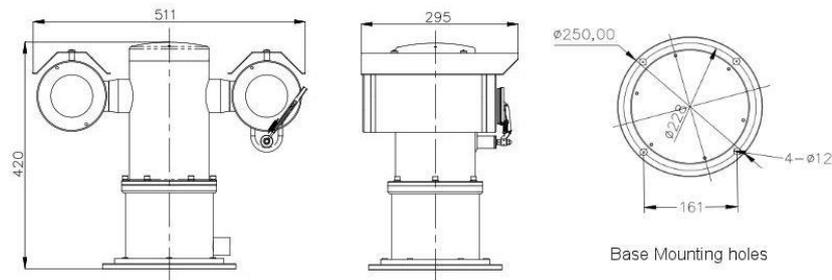
The AX15R-N-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AXWS10 stainless steel manually pressurized 10-litre washer system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

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 / 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

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.
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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.

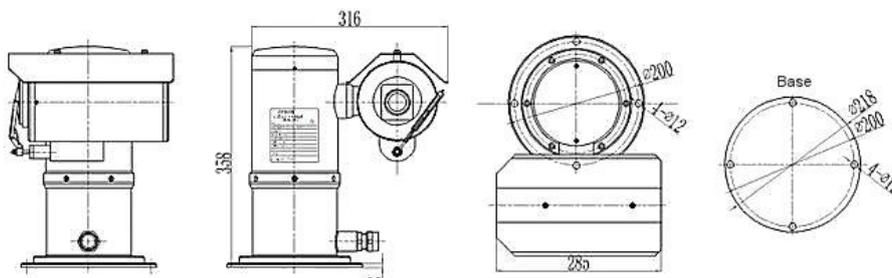
The ASP851 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash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

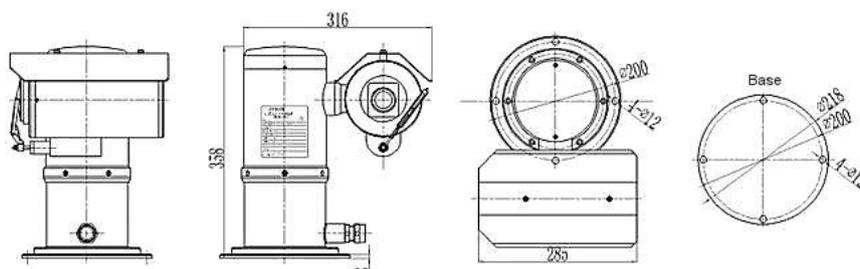
The ASP951 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash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

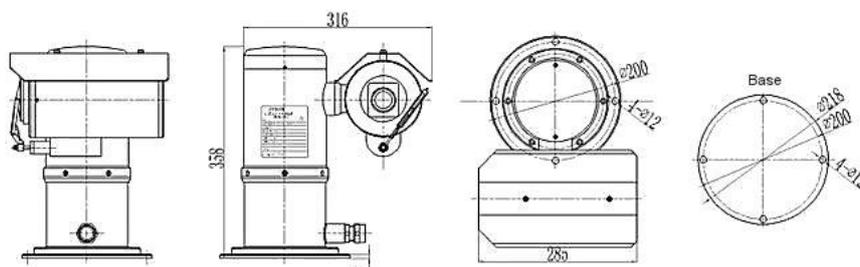
The ASP951-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to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

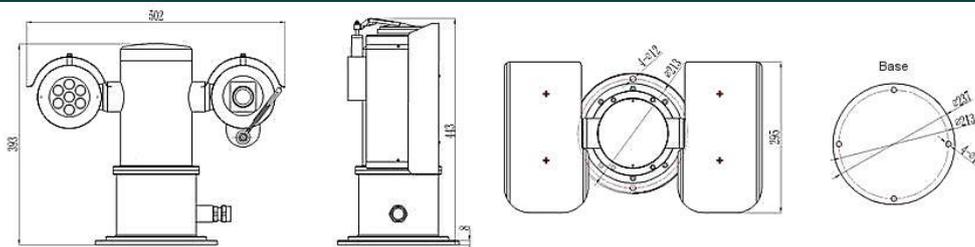
The ASP851R is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash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



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



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).

APPLICATIONS

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

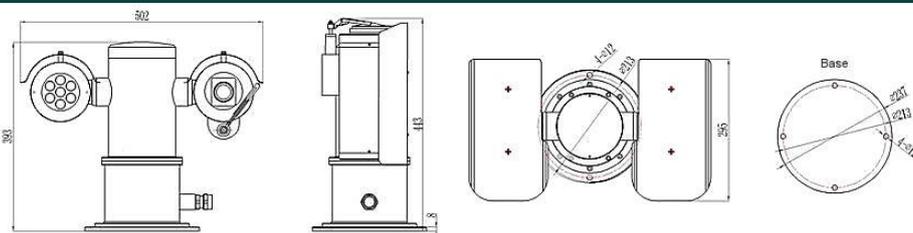
The ASP951R is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system to wash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



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).

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

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.

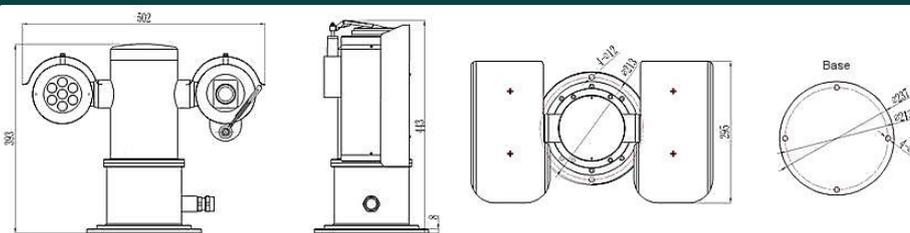
The ASP951R-6320 is equipped with wiper to keep the housing window clean. In instances where dry cleaning alone is not enough to remove stubborn particles, stains or dust from the window, the wiper can be used in conjunction with Avex AWS10 stainless steel manually pressurized 10-litre washer system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

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
- 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

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)

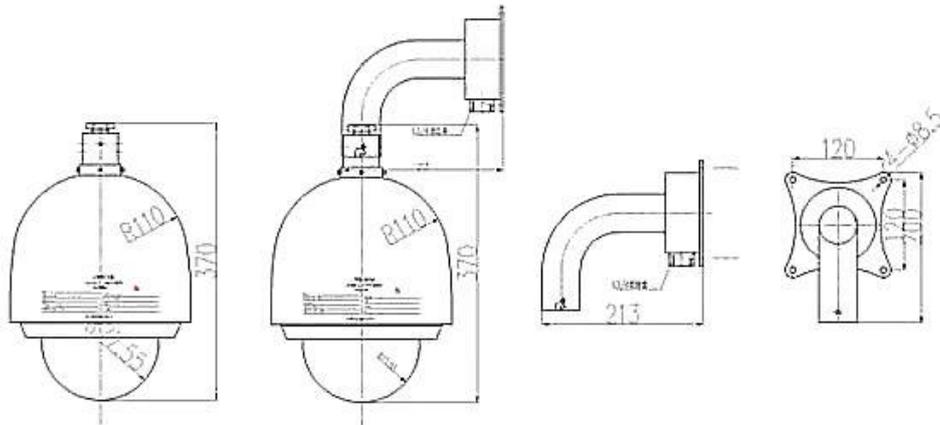
WEIGHT & DIMENSION

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
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing 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 Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection
Smart Event	
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

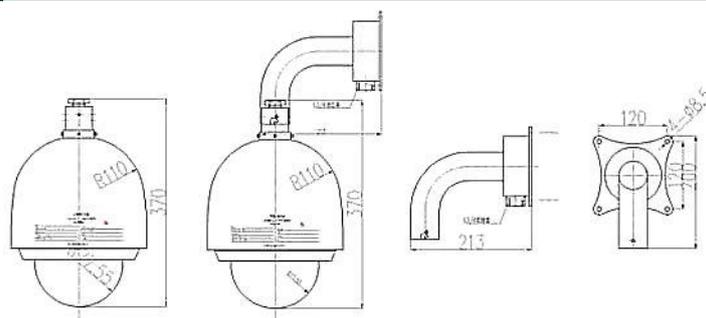
Alarm Interface	2-ch alarm input and 1-ch alarm output
Audio Interface	1-ch audio input and 1-ch audio output
Network Interface	1 RJ45 10 M/100 M Ethernet, Hi-PoE

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
	Total: 432X
Zoom Ratio	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

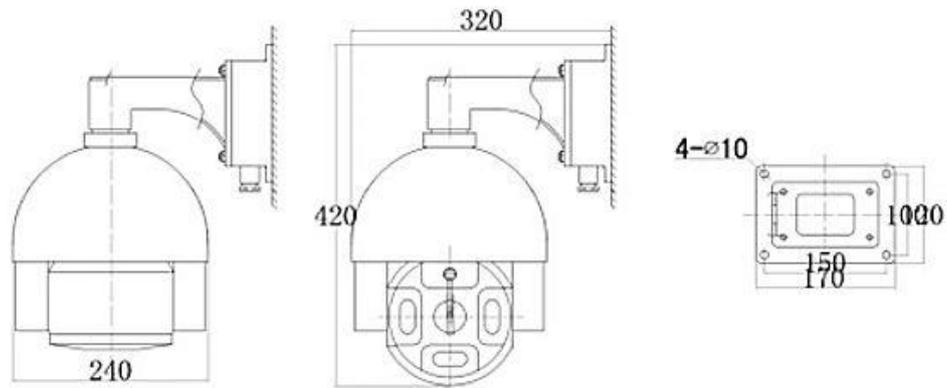
Air Pressure	86 ~ 106KPa
Temperature	-40°C to +60°C
Humidity	≤95%RH (+25°C)

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

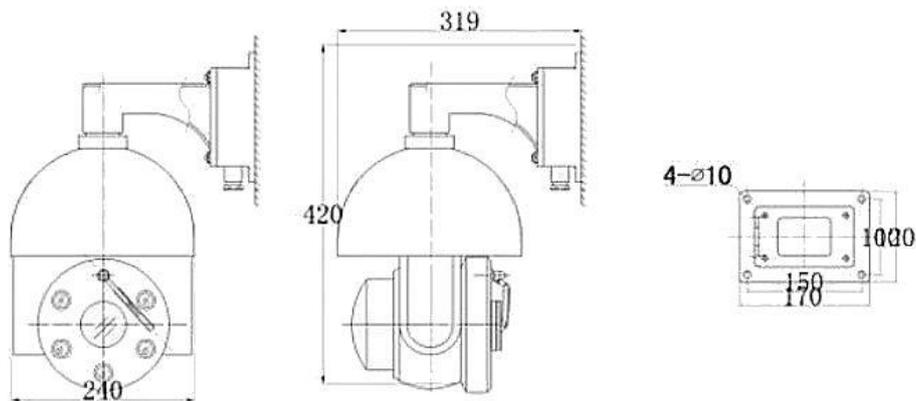
Projection Distance	100 Meters
Projection Angle	30°
Wavelength	850nm
Control Method	Auto
Power Consumption	15W

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

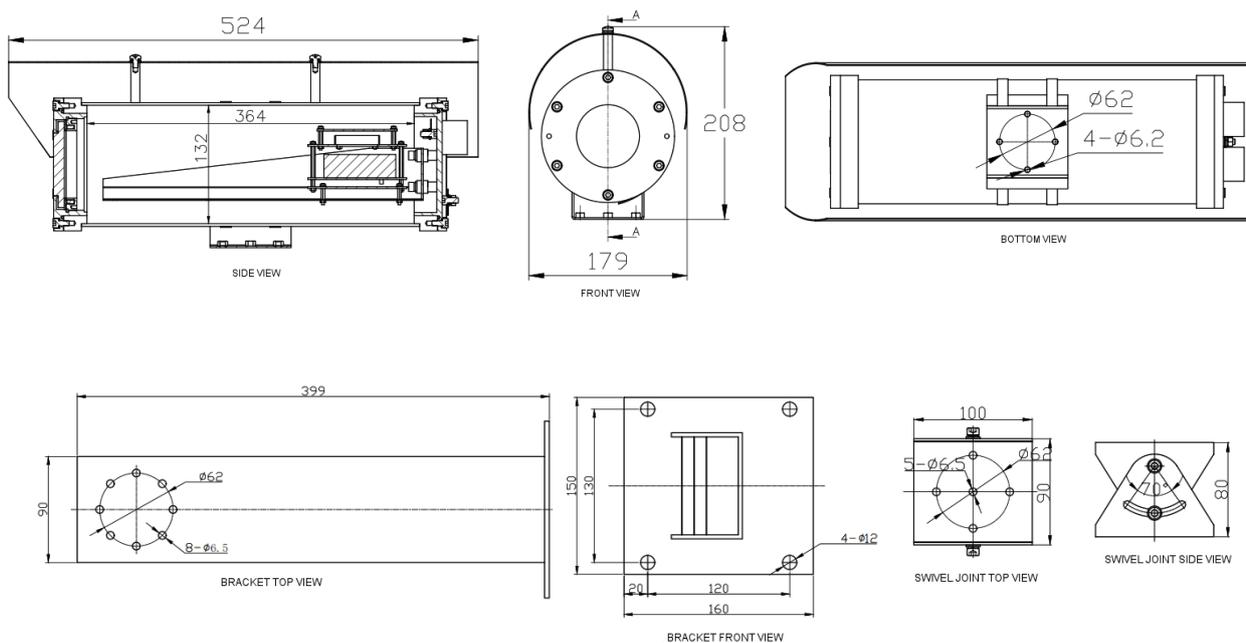
ENVIRONMENT

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)

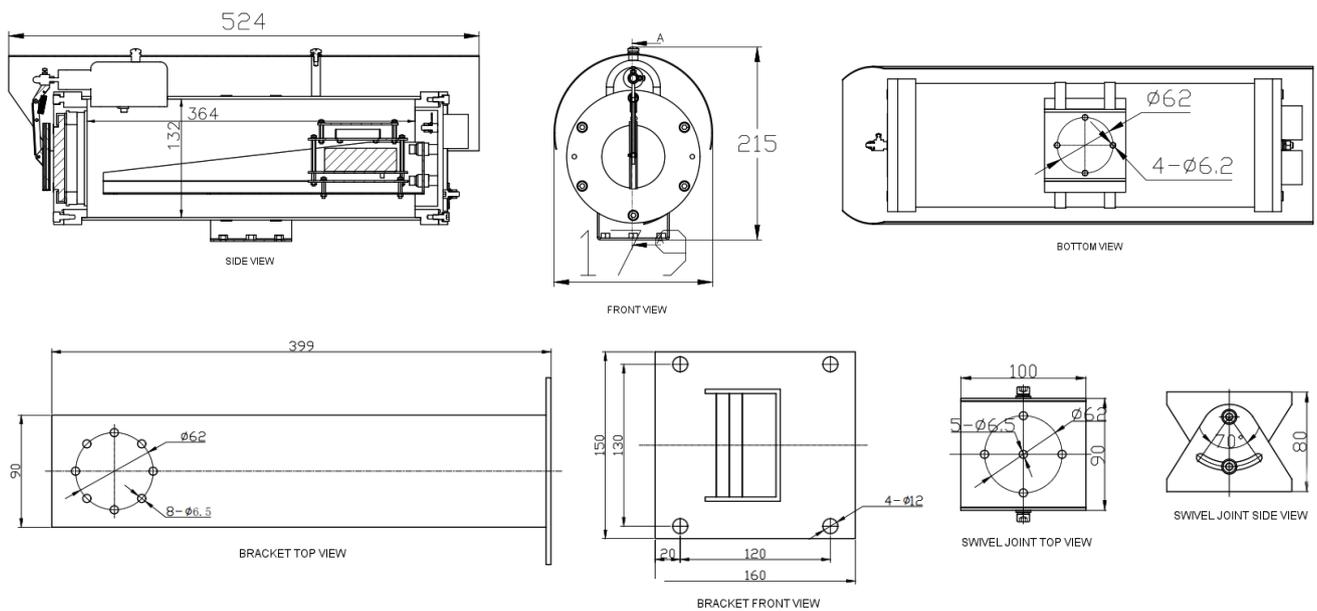
ENVIRONMENT

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 $\text{Ex II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80}^\circ\text{C Db, IP68}$.

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)

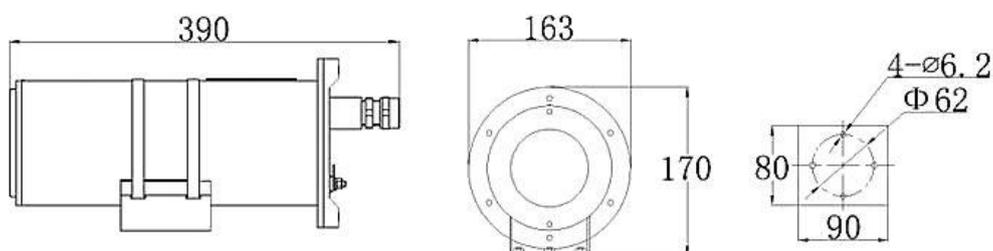
WEIGHTS (UNIT / SHIP)

Unit / Ship	7 / 9 Kg
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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)

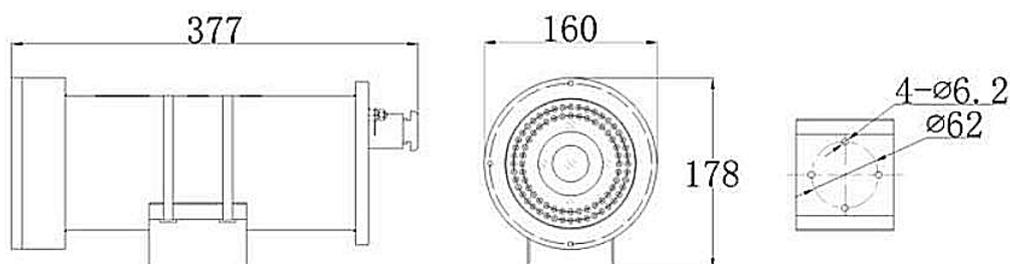
WEIGHTS (UNIT / SHIP)

Unit / Ship	9 / 11 Kg (without bracket)
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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
- 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 (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
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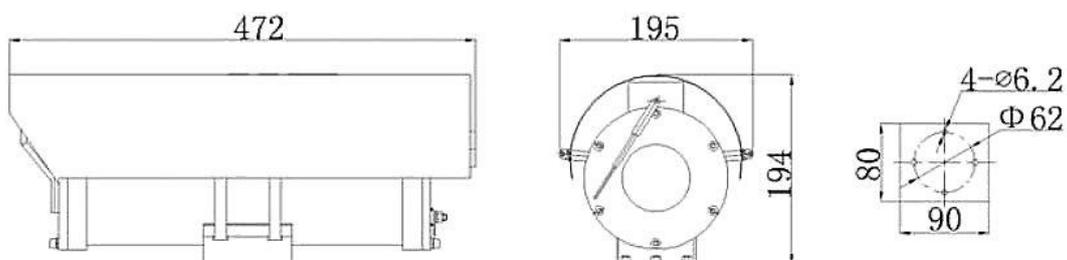
ORDERING INFORMATION

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)

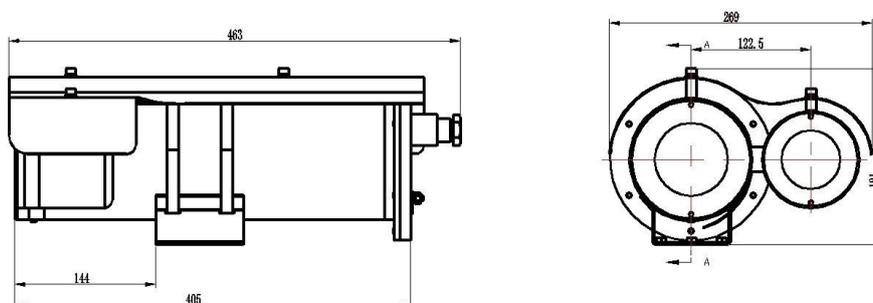
WEIGHTS (UNIT / SHIP)

Unit / Ship	11 / 13 Kg (without bracket)
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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
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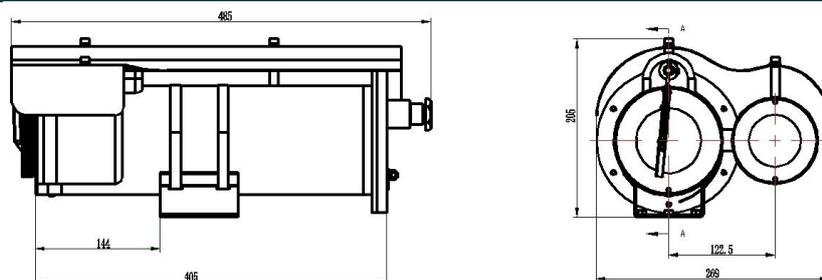
ORDERING INFORMATION

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.

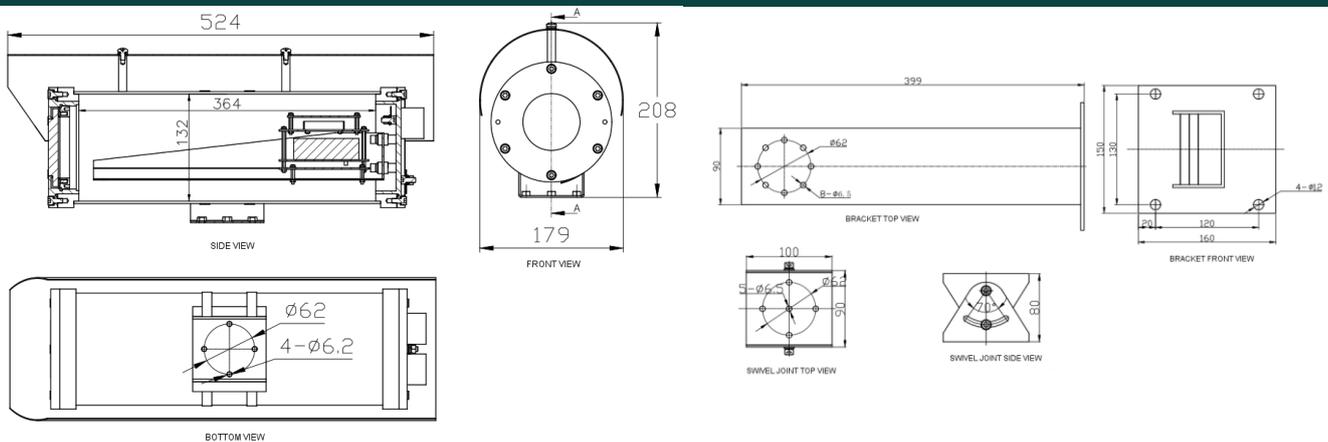
The AXH19-1020 is fitted with Sony 1/4" 550TVL Color Day/Night Camera. The 36X zoom provides optimum field of view in any situation, ensuring high quality images even in harsh weather conditions.

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.

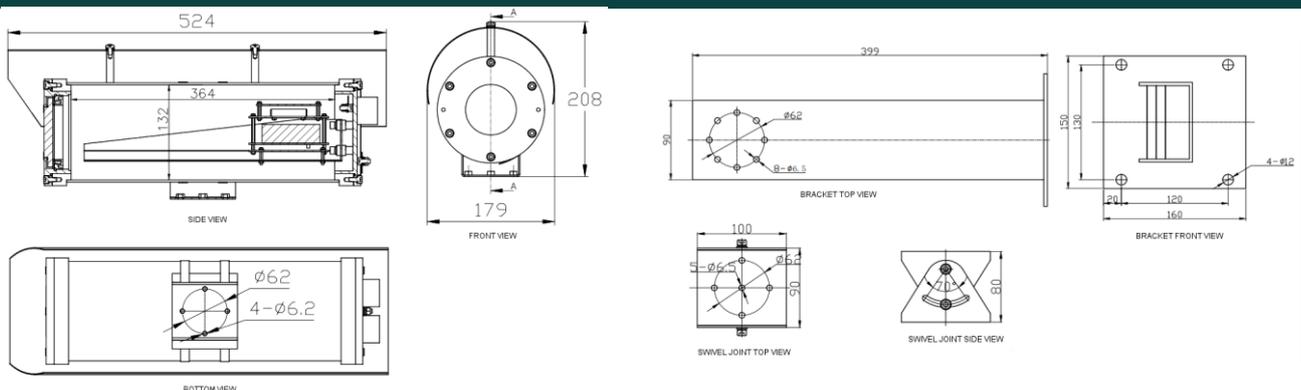
The AXH19-3008 is fitted with a 3-megapixel Full High Definition, 2048 x 1536 Resolution Day/Night IP Camera. The ONVIF Profile S compliant camera provides multiple video streams (H.265/H.264) and the 30X optical zoom provides optimum field of view in any situation, ensuring high quality images even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

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

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

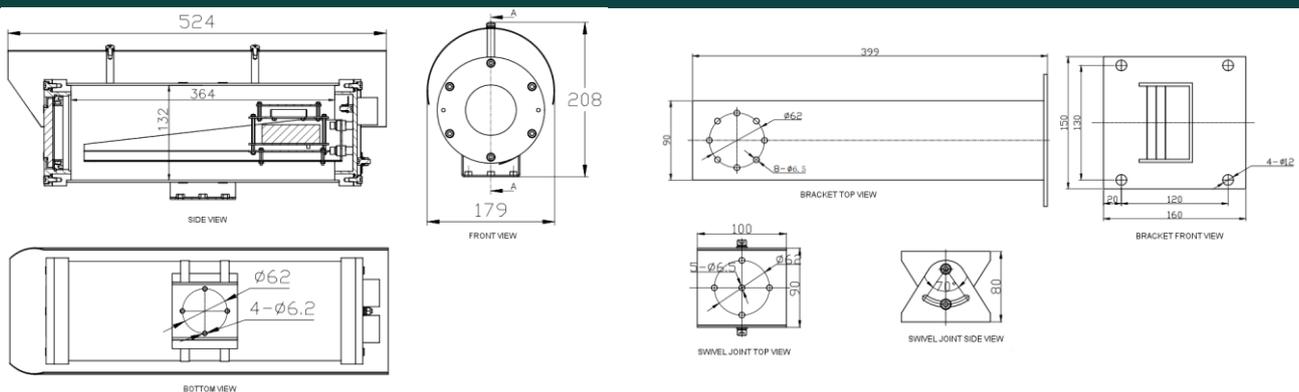
CAMERA

	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
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	
Network	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

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/IECEEx 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
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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

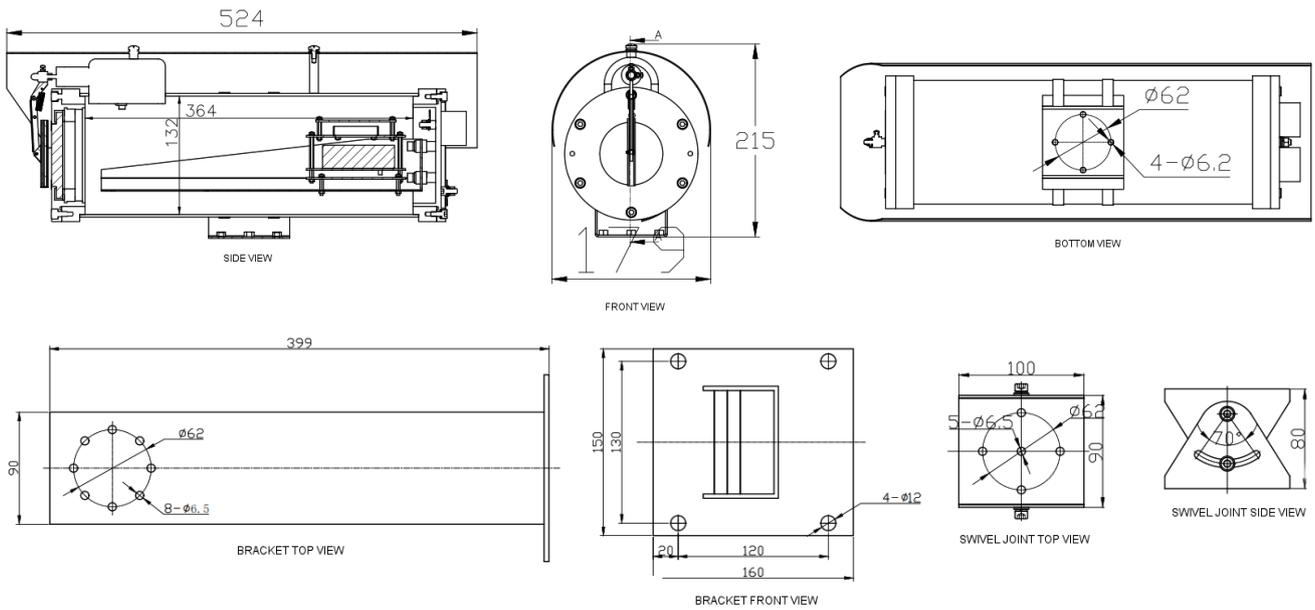
Air Pressure	80 ~ 120KPa
Temperature	-40°C to +60°C with defroster (-25°C without defroster)
Humidity	≤95%RH (+25°C)

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 $\text{Ex II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80}^\circ\text{C Db, IP68}$.

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

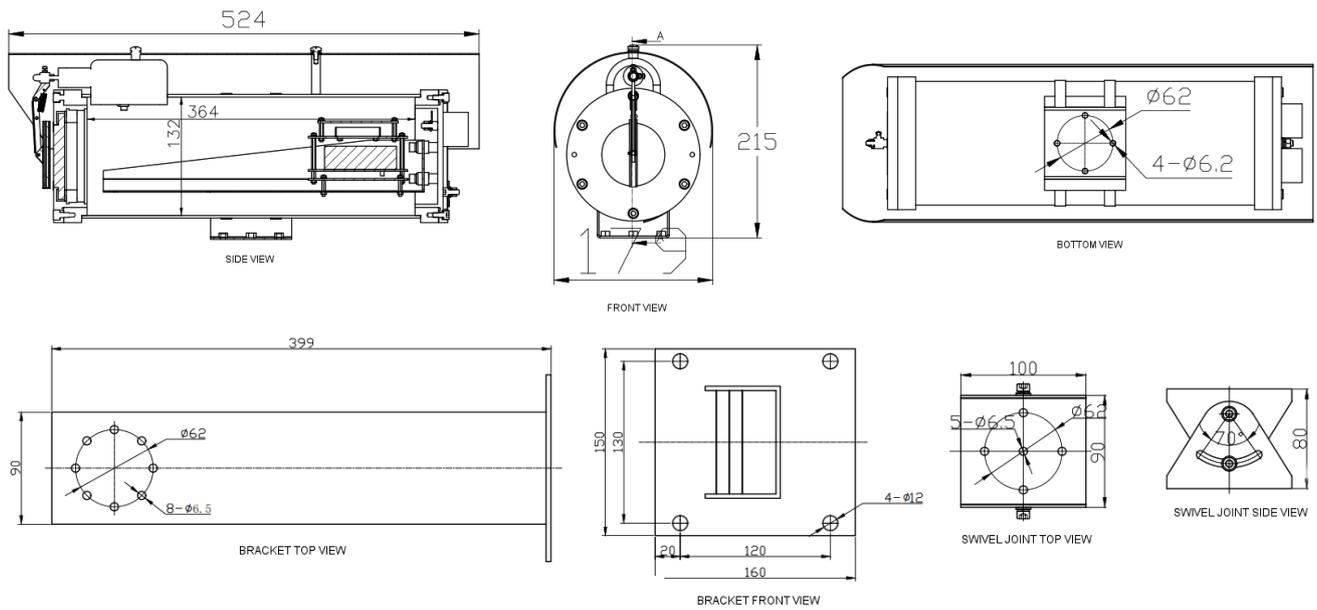
Air Pressure	80 ~ 120KPa
Temperature	-40°C to +60°C with defroster (-25°C without defroster)
Humidity	≤95%RH (+25°C)

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
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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

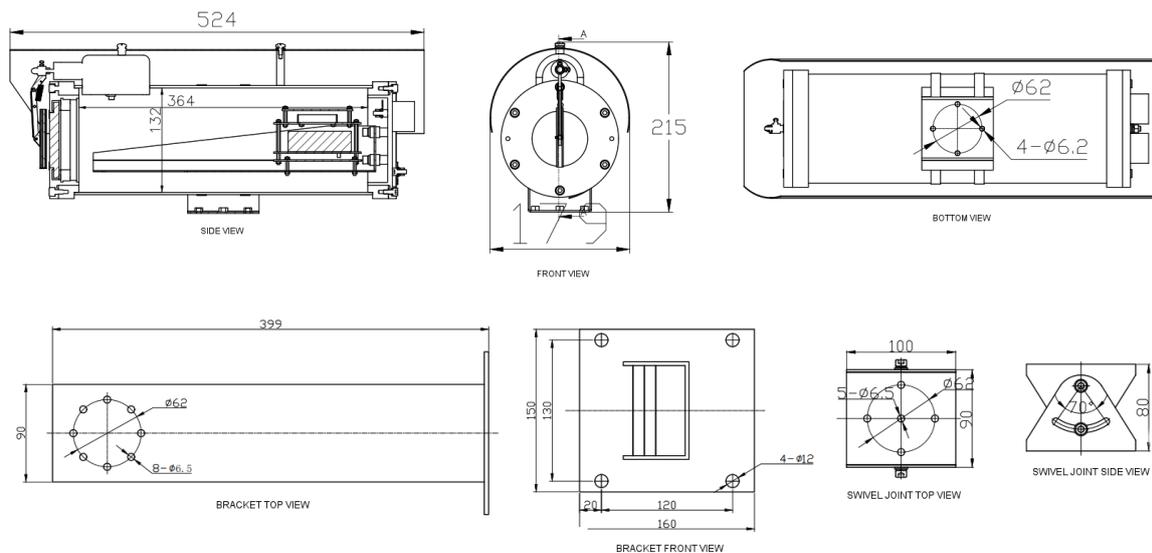
CAMERA

	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
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	
Network	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

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.

WHEN SAFETY AND PERFORMANCE MATTERS

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

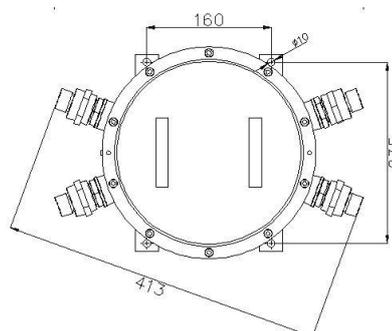
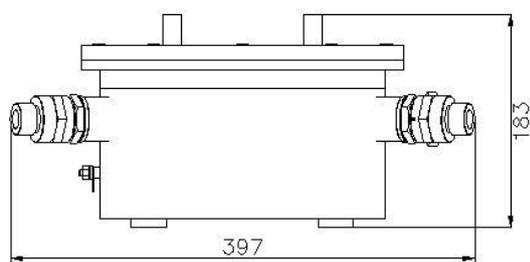
ENVIRONMENT

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.

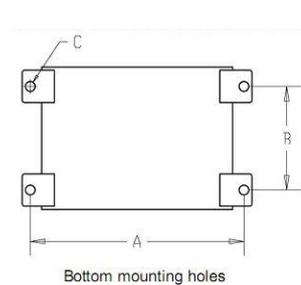
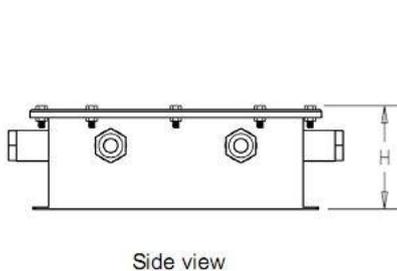
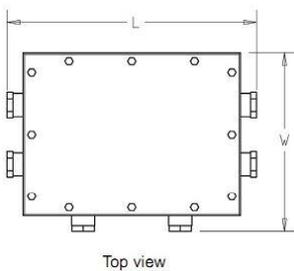
- Offshore Industries
- Marine Industries
- Oil & Gas Industries
- Industrial Environments
- Manufacturing Industries
- Construction Industries

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
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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

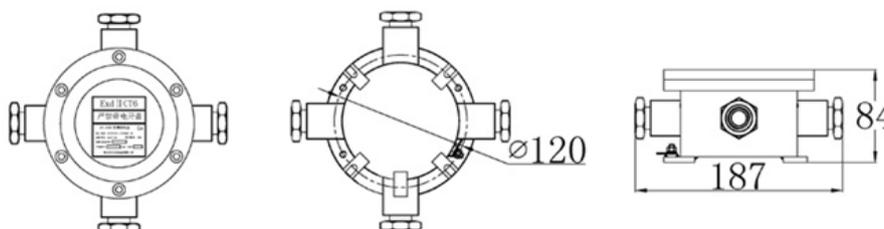
TECHNICAL DATA

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





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

WHEN SAFETY AND PERFORMANCE MATTERS

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.

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
- 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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