



A Mobile Technology Company

Explosion-proof Series

Explosion-proof Camera Solution



EX-M80

Explosion-proof Mini IR Mobile Camera

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EX-M80 is an explosion-proof Mini IR Mobile Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, intelligent IR switching technology, 3D digital noise reduction and 3D ring design for various angle view, EX-M80 delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for areas with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1, No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

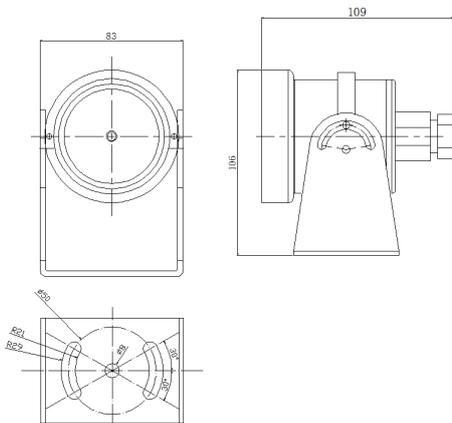
EX-M80 is suitable for tanker, dangerous good transport vehicles, small warehouses, chemical reagents labs, pharmaceutical plants, explosion-proof elevator and also high requirements on size and weight places.

Key features

- Integrate explosion-proof camera and infrared lamp, IR lamp turned on automatically when lack of visible light, IR CUT shifted day & night
- SONY EFFIO Super HAD/ Exview HAD project ultra-high pixel 960H (PAL: 976*582) CCD
- Photographic properties dramatically increase, the min. illumination at color 0.001Lux@F1.2
- The newest broad dynamic technology, dynamic range greater than 75dB
- 3D digital noise reduction technology for crisp and bright pictures at night
- IR night vision distance at 15-20m, high quality image showed even in badly lighting areas
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Invisible nano wiper, non-stick water or oil
- 304 Electropolished stainless steel surface processing, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Intelligent 3D ring design, convenient to install at any angle, high quality pictures after adjustment

Dimensions

(unit: mm)



Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shield & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shield & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ " , $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ " , $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		EX-proof Mini IR Mobile Camera	
Model		EX-M80-700	
Mechanical features	Material quality	304 Stainless steel	
	Surface treatment	Original stainless steel or Electro-polished surface (optional)	
	Anti-hazard classification	Exd II CT6 / DIP A20 TA,T6	
	Ingress Protection	IP68	
	Interface spec	G-1/2"	
	Weight	\leq 1.2kg (2.646lbs)	
	Method of installation	Ceiling type & wall mounting	
	Dimension (L x D x H)	110 x 90 x 90(mm)/ 4.33"x3.54"x3.54"	
	Camera	Resolution	700TVL
CCD		1/3 SONY Super EFFIO HAD / Exview HAD II CCD Sensor	
Effective pixel		976 (H) x 582 (V)	
TV System		PAL/NTSC	
Lens		4mm/6mm/8mm/12mm for option	
Signal-to-Noise Ratio		> 75dB	
Minimum Illumination		0Lux (with IR on)	
IR	IR Switch	AUTO \leq 10Lux	
	IR Distance	20-30m	
	Wavelength	850nm	
Electrical	Input voltage	DC 12V	
	Working current	\leq 2A	
	Electrical Connectivity	composite cable	
	Environmental	Working temperature	-30°C~+70°C / -22°F~158°F
		Atmospheric Pressure	86~106kpa
Relative Humidity		\leq 95%RH (\pm 25°C)	
Certification	ATEX, CNEX, CE, FCC		

EX-M80-IP Series

Explosion-proof Mini IR Mobile IP Camera



EX-M80-IP series is an explosion-proof Mini IR Mobile IP Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, simultaneous dual stream support and 3D ring design for various angle view, EX-M80-IP delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for areas with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

EX-M80-IP series is suitable for tanker, dangerous good transport vehicles, small warehouses, chemical reagents labs, pharmaceutical plants, explosion-proof elevator and also high requirements on size and weight places.

Key features

- Support RS485 serial port, extended with WIFI, 3G/4G function, built-in POE module, embedded web server, support IE browse video, parameter configuration, data update, user privilege management
- Support ONVIF protocol, open IP standard
- 5 million pixels 1/2.5" CMOS sensor, colour 0.6Lux@F1.2, Black and White 0.08Lux@F1.2
- Main stream: 1280x960, 1920x1080; Sub stream: 320x240, 352x192, 320x192, 288x192, 256x192
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared halos.
- IR night vision distance at 15m, high quality image showed even in badly lighting areas
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Invisible nano wiper, non-stick water or oil
- 304 Electropolished stainless steel surface processing, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Intelligent 3D ring design, convenient to install at any angle, high quality pictures after adjustment

Ordered Model:

EX-M80-IP13M	IP 1.3Mega pixel
EX-M80-IP20M	IP 2.0Mega pixel

Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shield & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shield & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		EX-proof IR Mobile IP Camera		
Model		EX-M80-IP13M	EX-M80-IP20M	
Mechanical features	Material quality	304 Stainless steel		
	Surface treatment	Original stainless steel or Electro-polished surface (optional)		
	Anti-hazard classification	ExdIICT6 Gb / DIP A20 TA, T6		
	Ingress Protection	IP66		
	Interface spec	G-1/2"		
	Weight	≤1.2kg (2.646lbs)		
	Method of installation	Ceiling type & wall mounting		
	Dimension (L x D x H)	110 x 90 x 90(mm)/ 4.33"x3.54"x3.54"		
Camera	Resolution	960P	1080P	
	Image Sensor	5 million pixels 1/2.5" CMOS sensor		
	Video Stream	Main:	1280x960	Main: 1920x1080
		Sub streams:	320x240, 352x192, 320x192, 288x192, 256x192	
	Video Processing	H.264 video encoding, support dual stream, AVI format, 0.1M~6Mbps adjustable		
	Frame Rate	25fps, 1~25 fps adjustable		
	Signal-to-Noise Ratio	>52dB		
IR	Minimum Illumination	Colour 0.6Lux@F1.2 B&W 0.08Lux@F1.2 (infra-red on)		
	Lens	4mm/6mm/8mm/12mm for option		
	IR Distance	15 meters		
Electrical	Wavelength	850nm		
	Input voltage	DC 12V		
	Working current	≤1A		
Environment	Electrical Connectivity	composite cable		
	Working temperature	-30°C~+70°C / -22°F~158°F		
	Atmospheric Pressure	86~106kpa		
	Relative Humidity	≤ 95%RH (±25°C)		
Certification	ATEX, CNEX, CE, FCC			

EX-M82

Explosion-proof IR Mobile Camera

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EX-M82 is an explosion-proof IR Mobile Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, intelligent IR switching technology, 3D digital noise reduction and 3D ring design for various angle view, EX-M82 delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for areas with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1, No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

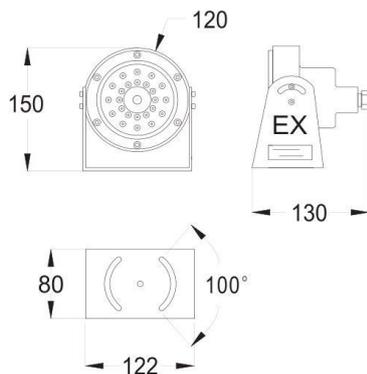
EX-M82 is suitable for tanker, dangerous good transport vehicles, small warehouses, chemical reagents labs, pharmaceutical plants, explosion-proof elevator and also high requirements on size and weight places.

Key features

- Integrate explosion-proof camera and infrared lamp, IR lamp turned on automatically when lack of visible light, IR CUT shifted day & night
- SONY EFFIO Super HAD/ Exview HAD project ultra-high pixel 960H (PAL: 976*582) CCD
- Photographic properties dramatically increase, the min. illumination at color 0.001Lux@F1.2
- The newest broad dynamic technology, dynamic range greater than 75dB
- 3D digital noise reduction technology for crisp and bright pictures at night
- IR night vision distance at 20-30m, high quality image showed even in badly lighting areas
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Invisible nano wiper, non-stick water or oil
- 304 Electropolished stainless steel surface processing, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Intelligent 3D ring design, convenient to install at any angle, high quality pictures after adjustment

Dimensions

(unit: mm)



Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shield & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shield & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ " , $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ " , $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		EX-proof IR Mobile Camera
Model		EX-M82-700
Mechanical features	Material quality	304 Stainless steel
	Surface treatment	Original stainless steel or Electro-polished surface (optional)
	Anti-hazard classification	Ex dIIC T6 Gb / DIP A20 TA, T6
	Ingress Protection	IP68
	Interface spec	G-1/2"
	Weight	\leq 4.0kg (8.818lbs)
	Method of installation	Ceiling type & wall mounting
	Dimension (L x D x H)	120x100x130(mm)/ 4.72"x3.93"x5.12"
	Camera	Resolution
CCD		1/3 SONY Super EFFIO HAD / Exview HAD II CCD Sensor
Effective pixel		976 (H) x 582 (V)
TV System		PAL/NTSC
Lens		4mm/6mm/8mm/12mm
Signal-to-Noise Ratio		> 75dB
Minimum Illumination		Color 0.001Lux@F1.2, 0Lux (IR on)
IR	IR Switch	AUTO \leq 10LUX
	IR Distance	20-30m
	Wavelength	850nm
Electrical	Input voltage	DC 12V
	Working current	\leq 2A
	Electrical Connectivity	composite cable
Environmental	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	\leq 95%RH (\pm 25°C)
	Certification	ATEX, CE, FCC

EX-M82-IP Series

Explosion-proof IR Mobile IP Camera



Key features

- Support RS485 serial port, extended with WIFI, 3G/4G function, built-in POE module, embedded web server, support IE browse video, parameter configuration, data update, user privilege management
- Support ONVIF protocol, open IP standard
- 5 million pixels 1/2.5" CMOS sensor, colour 0.6Lux@F1.2, Black and White 0.08Lux@F1.2
- Main stream: 1280x960, 1920x1080; Sub stream: 320x240, 352x192, 320x192, 288x192, 256x192
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared halos.
- IR night vision distance at 20-30m, high quality image showed even in badly lighting areas
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Invisible nano wiper, non-stick water or oil
- 304 Electropolished stainless steel surface processing, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Intelligent 3D ring design, convenient to install at any angle, high quality pictures after adjustment

Ordered Model:

EX-M82-IP13M	IP 1.3Mega pixel
EX-M82-IP20M	IP 2.0Mega pixel

Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shield & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shield & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

EX-M82-IP series is an explosion-proof IP Mobile Infrared Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, simultaneous dual stream support and 3D ring design for various angle view, EX-M82-IP delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for areas with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1, No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

EX-M82-IP series is suitable for tanker, dangerous good transport vehicles, small warehouses, chemical reagents labs, pharmaceutical plants, explosion-proof elevator and also high requirements on size and weight places.

Technical Specifications

Product series		EX-proof IR Mobile IP Camera		
Model		EX-M82-IP13M	EX-M82-IP20M	
Mechanical features	Material quality	304 Stainless steel		
	Surface treatment	Original stainless steel or Electro-polished surface (optional)		
	Anti-hazard classification	ExdIICT6 Gb / DIP A20 TA, T6		
	Ingress Protection	IP66		
	Interface spec	G-1/2"		
	Weight	≤4.0kg (8.818lbs)		
	Method of installation	Ceiling type & wall mounting		
	Dimension (L x D x H)	120x100x130(mm)/ 4.72"x3.93"x5.12"		
	Camera	Resolution	960P	1080P
Image Sensor		5 million pixels 1/2.5" CMOS sensor		
Video Stream		Main:	1280x960	Main: 1920x1080
		Sub streams:	320x240, 352x192, 320x192, 288x192, 256x192	
Video Processing		H.264 video encoding, support dual stream, AVI format, 0.1M~6Mbps adjustable		
Frame Rate		25fps, 1~25 fps adjustable		
Signal-to-Noise Ratio		>52dB		
Minimum Illumination		Colour 0.6Lux@F1.2 B&W 0.08Lux@F1.2 (infra-red on)		
Lens		4mm/6mm/8mm/12mm for option		
IR		IR Distance	20-30 meters	
	Wavelength	850nm		
Electrical	Input voltage	DC 12V		
	Working current	≤1A		
	Electrical Connectivity	composite cable		
Environment	Working temperature	-30°C~+70°C / -22°F~158°F		
	Atmospheric Pressure	86~106kpa		
	Relative Humidity	≤ 95%RH (±25°C)		
	Certification	ATEX, CE, FCC		

EX-B84-700

Explosion-proof IR Camera



EX-B84 is an explosion-proof fixed IR Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304(316) stainless steel, intelligent IR switching technology, high quality integrated camera, 3D digital noise reduction, and latest broad dynamic technology, EX-B84 delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- Integrate explosion-proof camera and infrared lamp with intelligent design, IR lamp turned on automatically when lack of visible light, IR CUT shifted day and night, delivering high quality clear picture in detail
- SONY EFFIO Super HAD/ Exview HAD project ultra-high pixel 960H (PAL: 976*582) CCD
- Photographic properties dramatically increase, the minimum illumination is as low as color 0.001Lux@F1.2
- The newest broad dynamic technology, dynamic range greater than 75dB, effects increase obviously
- 3D digital noise reduction technology for crisp, bright pictures at night
- Visible distance up to 30-50 meters with infrared night vision function, high quality image showed even in low lighting areas
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Ordered Model:

EX-B84-700	Analog 700TVL
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Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shields & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shields & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof IR Camera
Model		EX-B84-700
Mechanical features	Material quality	304 Stainless steel
	Surface treatment	Original stainless steel
	Anti-hazard classification	Ex dIIC T6 Gb / DIP A20 TA, T6
	Ingress Protection	IP66
	Interface spec	G-1/2"
	Weight	≤6.0kg (13.23lbs)
	Method of installation	Ceiling type & Wall mounting
	Dimension (LxDxH)	260x120x120mm/10.23"x4.72"x4.72"
Camera	Resolution	700TVL
	TV System	PAL/NTSC
	Lens	4mm/6mm/8mm/12mm for option
	Signal-to-Noise Ratio	> 75dB
	IR Distance	30-50 meters
Electrical	Wavelength	850nm
	Input voltage	DC12V
	Working current	≤2A
Environmental	Electrical Connectivity	composite cable
	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	≤ 95%RH (±25°C)
Certification	CNEX, CE, FCC	

EX-B84-IP series

Explosion-proof IP Infrared Camera



EX-B84-IP series is an explosion-proof fixed IP Infrared Camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, intelligent IR switching technology, up to 1080P resolution, and simultaneous dual stream support, EX-B84-IP series delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1, No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- Support RS485 serial port, extended with WIFI, 3G/4G function, built-in POE module, embedded web server, support IE browse video, parameter configuration, data update, user privilege management
- Support ONVIF protocol, open IP standard
- 5 million pixels 1/2.5" CMOS sensor, colour 0.6Lux@F1.2, Black and White 0.08Lux@F1.2
- Main stream: 1280x960, 1920x1080; Sub stream: 320x240, 352x192, 320x192, 288x192, 256x192
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared halos.
- Invisible nano wiper, non-stick water, non-stick oil, dust-proof
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Ordered Model:

EX-B84-IP13M	IP 1.3 Mega pixels
EX-B84-IP20M	IP 2.0 Mega pixels

Accessory:

IR Bracket	Aluminum, wall mount, pole mount, used for proof shields & ex-proof cameras, load 30kg
Universal Joint	Aluminum, used for proof shields & ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof IR Camera		
Model		EX-B84-IP13M	EX-B84-IP20M	
Mechanical features	Material quality	304 Stainless steel		
	Surface treatment	Original stainless steel		
	Anti-hazard classification	ExdIICT6 Gb / DIP A20 TA,T6		
	Ingress Protection	IP66		
	Interface spec	G-1/2"		
	Weight	≤6.0kg (13.23lbs)		
	Method of installation	Ceiling type & Wall mounting		
	Dimension (LxDxH)	260x120x120(mm)/10.23"x4.72"x4.72"		
Camera	Resolution	1280x960	1920x1080	
	Image Sensor	5 million pixels 1/2.5" CMOS sensor		
	Video Stream	Main: 1280x960	Main: 1920x1080	
		Sub streams: 320x240, 352x192, 320x192, 288x192, 256x192		
	Video Processing	H.264 video encoding, support dual stream, AVI format, 0.1M~6Mbps adjustable		
	Frame Rate	25fps, 1~25 fps adjustable		
	Signal-to-Noise Ratio	>52dB		
	Minimum Illumination	Colour 0.6Lux@F1.2, B&W 0.08Lux@F1.2 (infra-red on)		
	Lens	4mm/6mm/8mm/12mm for option		
	IR	IR Distance	30-50 meters	
Wavelength		850nm		
Electrical	Input voltage	DC12V		
	Working current	≤2A		
	Electrical Connectivity	composite cable		
Environmental	Working temperature	-30°C~+70°C / -22°F~158°F		
	Atmospheric Pressure	86~106kpa		
	Relative Humidity	≤ 95%RH (±25°C)		
	Certification	CNEX, CE, FCC		

EX-D85

Explosion-proof Dome Camera



EX-D85 is an explosion-proof Dome camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304(316) stainless steel, low light technology, high quality integrated camera, 3D digital noise reduction, and latest broad dynamic technology, EX-D85 delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- 304(316) stainless steel surface treated with fluorine-carbon spray, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Photographic properties dramatically increase, the min. illumination at color 0.001Lux@F1.2
- The fourth generation newest broad dynamic technology, dynamic range greater than 75dB, effects increase obviously
- 3D digital noise reduction technology for crisp, bright pictures at night
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%, completely eliminate infrared light halos.
- Invisible nano wiper, non-stick water, non-stick oil, dust-proof.
- Optional temperature-controlled SCR semiconductor module to realize automatic heating and cooling functions, heater turned on when temperature lower than -10°C±5°C
- Camera cover customizable
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Ordered Model:

EX-D85-700	Analog 700TVL
EX-D85-IP13M	IP 1.3Mega pixel
EX-D85-IP20M	IP 2.0Mega pixel

Accessory:

Medium Size Bracket	All steel, wall mount, pole mount, used for ex-proof shields & PTZ, load 60kg
Universal Joint	Aluminum, used for proof shields and ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof Dome Camera
Model		EX-D85
Mechanical features	Material quality	304 Stainless steel (316 optional)
	Surface treatment	Stainless steel
	Anti-hazard classification	Ex dIIC T6 Gb / DIP A20 TA, T6
	Ingress Protection	IP66
	Interface spec	G-1/2"
	Weight	2.0kg (4.409lbs)
	Method of installation	Ceiling type & wall mounting
	Dimension (L x D x H)	110mm x 110mm x 150mm / 4.33" x 4.33" x 5.90"
Camera	Resolution	700TVL, IP1.3M pixel, IP2.0M pixel
	Effective pixel	976 (H) x 582 (V)
	TV System	PAL/NTSC
	Lens	4mm/6mm (8mm/12mm by request)
	Signal-to-Noise Ratio	> 75dB
	Minimum Illumination	0Lux (with IR on)
Electrical	Input voltage	DC 12V
	Working current	≤1A
	Electrical Connectivity	composite cable
Environmental	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	≤ 95%RH (±25°C)
	Certification	ATEX, CE, FCC

EX-S86

Explosion-proof High Speed Dome Camera

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EX-S86 is an explosion-proof High Speed Dome tailor-made for the rigorous requirements for hazardous areas. Featuring 304 stainless steel, 18X optical zoom, intelligent variable speed function, high quality motor, built-in power converter and heater, EX-S86 delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- Intelligent variable speed function, PTZ speed automatic adjustment with the depth of field, 18X Optical Zoom
- 304 stainless steel surface treated with fluorine-carbon spray, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Built-in power converter, no need for additional ex-proof power supply box, the real integrated equipment, easy to install and saving cost
- Built-in heater, allow operation in low temperature, display the temperature of the inner of the dome and the ambient
- Low temperature environment and power protection
- Adopt high-quality motor, low-heat dissipating capacity, low-speed operation without jitters
- Matching a variety of camera options
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Ordered Model:

EX-S86-700	Analog 700TVL
EX-S86-IP13M	IP 1.3Mega pixel
EX-S86-IP20M	IP 2.0Mega pixel

Accessory:

Spade PTZ Bracket	All steel, wall mount, pole mount, used for ex-proof Shield and PTZ, load 100kg
Universal Joint	Aluminum, used for proof shields and ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof High Speed Dome
Model		EX-S86
Mechanical features	Material quality	304 Stainless steel
	Surface treatment	Original stainless steel
	Anti-hazard classification	Ex dIIC T6 Gb / DIP A20 TA, T6
	Ingress Protection	IP66
	Interface spec	G-3/4"
	Weight	\leq 12.0kg (26.45lbs)
	Method of installation	Wall mounting
Camera	Dimension (L x W x H)	300mm x 300mm x 370mm/ 11.81"x11.81"x14.56"
	Resolution	SONY 480CP, IP1.3Mpix, IP2.0Mpix
	TV System	PAL/NTSC
	Lens	4mm/6mm
PTZ Function	Signal-to-Noise Ratio	$>$ 75dB
	Max. Horizontal Angle	0-360°
	Max. Pitching Angle	\pm 90°
	Horizontal Speed	300° /sec
	Pitching Speed	1200° /sec
Electrical	Zoom	18X Optical Zoom
	Input voltage	DC 12V or AC 24V
	Working current	\leq 2A
Environmental	Electrical Connectivity	composite cable
	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	\leq 95%RH (\pm 25°C)
Certification	ATEX, CE, FCC	

EX-P87

Explosion-proof PTZ Camera



EX-P87 is an explosion-proof PTZ camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304(316) stainless steel, low-light technology, auto-focus, high-resolution integrated camera and upright and inverted operation, EX-P87 delivers the high image quality and reliability demanded in the most challenging environments.

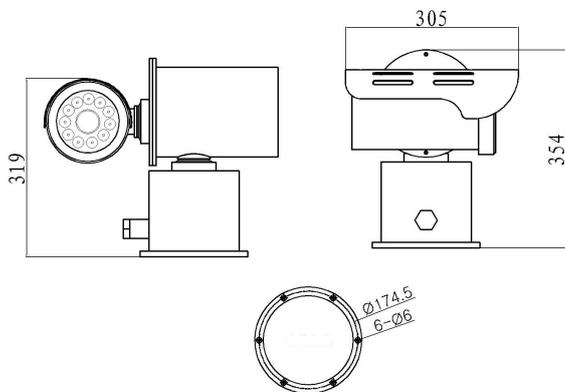
Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- 304(316) stainless or electro-polished
- Auto focus, high-resolution integrated camera
- Variable Speed Pan: 0.1° to 40° /second with proportional pan
- Tilt Range from +90° to -90° from Horizontal
- Upright or Inverted Operation
- Full, two-year continuous-day warranty
- 960P or 1080P, Onvif compliant
- Support DC12V/DC24V/AC220V power range
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage

Dimensions

(unit: mm)



Ordered Model:

EX-P87-700	Analog 700TVL
EX-P87-IP13M	IP 1.3Mega pixel
EX-P87-IP20M	IP 2.0Mega pixel

Accessory:

Spade PTZ Bracket	All steel, wall mount, pole mount, used for ex-proof Shield and PTZ, load 100kg
Universal Joint	Aluminum, used for proof shields and ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ " , $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ " , $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof PTZ Camera
Model		EX-P87
Mechanical features	Material quality	304 Stainless steel
	Surface treatment	Original stainless steel or Electro-polished surface (optional)
	Anti-hazard classification	Ex dIIC T6 Gb/ DIP A20 TA,T6
	Ingress Protection	IP66
	Interface spec	G-3/4"
	Weight	≤25.0kg (55.11lbs)
	Method of installation	Wall mounting
Dimension (L x H)		354mm x 305mm / 13.93" x 12.00"
Camera	Resolution	SONY480CP, IP1.3Mpix, IP2.0Mpix
	TV System	PAL/NTSC
	Lens	4mm/6mm
	Signal-to-Noise Ratio	> 75dB
IR Distance		80 meters
PTZ Function	Max. Horizontal Angle	0-360°
	Max. Pitching Angle	± 90°
	Horizontal Speed	0.1-40° /sec
	Pitching Speed	0.1-40° /sec
	Zoom	18X Optical Zoom
Electrical	Input voltage	DC 12V/ DC 24V/ AC 220V
	Working current	≤2A
	Electrical Connectivity	composite cable
Environmental	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	≤ 95%RH (±25°C)
	Certification	ATEX, CNEX, CE, FCC

EX-P87R

Explosion-proof IR PTZ Camera



EX-P87R is an explosion-proof PTZ Infrared camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304(316) stainless steel, long-range IR distance, auto-focus, high-resolution integrated camera and upright and inverted operation, EX-P87R delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Key features

- 304(316) stainless or electro-polished
- Auto focus, high-resolution integrated camera
- Tilt Range from +90° to -90° from Horizontal
- Upright or Inverted Operation
- Full, two-year continuous-day warranty
- Support AC220V
- 960P or 1080P, Onvif compliant
- Matching a variety of camera options
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Ordered Model:

EX-P87R-700	Analog 700TVL
EX-P87R-IP13M	IP 1.3Mega pixel
EX-P87R-IP20M	IP 2.0Mega pixel

Accessory:

Spade PTZ Bracket	All steel, wall mount, pole mount, used for ex-proof Shield and PTZ, load 100kg
Universal Joint	Aluminum, used for proof shields and ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber $\frac{1}{2}$ ", $\frac{3}{4}$ " stainless steel $\frac{3}{4}$ " Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: $\frac{1}{2}$ ", $\frac{3}{4}$ "
Ex-proof Control Box	Stainless steel

Technical Specifications

Product series		Explosion-proof IR PTZ Camera
Model		EX-P87R
Mechanical features	Material quality	304 Stainless steel (316 optional)
	Surface treatment	Original stainless steel or Electro-polished surface (optional)
	Anti-hazard classification	Ex dIIC T6 Gb / DIP A20 TA, T6
	Ingress Protection	IP66
	Interface spec	G-3/4"
	Weight	≤25.0kg (55.11lbs)
	Method of installation	Wall mounting
	Dimension (L x W x H)	283mm x 507mm x 397mm/ 11.14"x19.96"x15.63"
	Resolution	Analog 700TVL, IP1.3Mpix, IP2.0Mpix
Camera	TV System	PAL/NTSC
	Lens	4mm/6mm
	Signal-to-Noise Ratio	> 75dB
PTZ Function	IR Distance	80 meters
	Max. Horizontal Angle	0-355°
Electrical	Max. Pitching Angle	± 90°
	Horizontal Speed	6° /sec
	Pitching Speed	6° /sec
	Zoom	20X Optical Zoom
Environment	Input voltage	AC 220V
	Working current	≤2A
	Electrical Connectivity	composite cable
	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	≤ 95%RH (±25°C)
	Certification	ATEX, CNEX, CE, FCC

EX-P88R

Explosion-proof IR PTZ Camera

www.vipro.com.tw

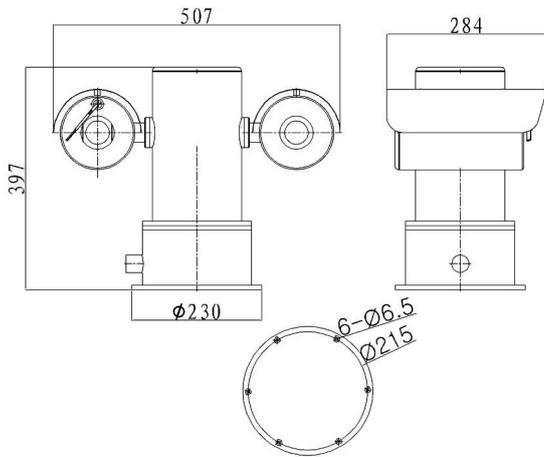


Key features

- 304(316) stainless or electro-polished
- Auto focus, high-resolution integrated camera
- Variable Speed Pan: 0.1° to 40° /second with proportional pan
- Tilt Range from +90° to -90° from Horizontal
- Upright or Inverted Operation
- Full, two-year continuous-day warranty
- 960P or 1080P, Onvif compliant
- Support DC12V/DC24V/AC220V power range
- Application: oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage.

Dimensions

(unit: mm)



Ordered Model:

EX-P88R-700	Analog 700TVL
EX-P88R-IP13M	IP 1.3Mega pixel
EX-P88R-IP20M	IP 2.0Mega pixel

Accessory:

Spade PTZ Bracket	All steel, wall mount, pole mount, used for ex-proof Shield and PTZ, load 100kg
Universal Joint	Aluminum, used for proof shields and ex-proof cameras, load 30kg
Ex-proof Flexible Tube BNG	Diameter: ϕ 15mm Length: 1200mm Interface: rubber 1/2", 3/4" stainless steel 3/4" Temp: -25°C ~ +70°C
Ex-proof Junction Box	Interface: 1/2", 3/4"
Ex-proof Control Box	Stainless steel

EX-P88R is an explosion-proof PTZ Infrared camera tailor-made for the rigorous requirements for hazardous areas. Featuring 304(316) stainless steel, long-range IR distance, auto-focus, high-resolution integrated camera and upright and inverted operation, EX-P88R delivers the high image quality and reliability demanded in the most challenging environments.

Applicable for the factories with the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22.

Technical Specifications

Product series		Explosion-proof IR PTZ Camera
Model		EX-P88R
Mechanical features	Material quality	304 Stainless steel
	Surface treatment	Original stainless steel or Electro-polished surface (optional)
	Anti-hazard classification	Ex dIIC T6 Gb/ DIP A20 TA,T6
	Ingress Protection	IP66
	Interface spec	G-3/4"
	Weight	≤28.0kg (61.73lbs)
	Method of installation	Wall mounting
Dimension (L x W x H)		283mm x 507mm x 397mm / 11.14" x 19.96" x 15.63"
Camera	Resolution	SONY480CP, IP1.3Mpix, IP2.0Mpix
	TV System	PAL/NTSC
	Lens	4mm/6mm
	Signal-to-Noise Ratio	> 75dB
	IR Distance	80 meters
PTZ Function	Max. Horizontal Angle	0-360°
	Max. Pitching Angle	± 90°
	Horizontal Speed	0.1-40° /sec
	Pitching Speed	0.1-40° /sec
	Zoom	18X Optical Zoom
Electrical	Input voltage	DC 12V/ DC2 4V/ AC 220V
	Working current	≤2A
	Electrical Connectivity	composite cable
Environmental	Working temperature	-30°C~+70°C / -22°F~158°F
	Atmospheric Pressure	86~106kpa
	Relative Humidity	≤ 95%RH (±25°C)
	Certification	ATEX, CNEX, CE, FCC

EX-H80

Explosion-proof Camera Housing



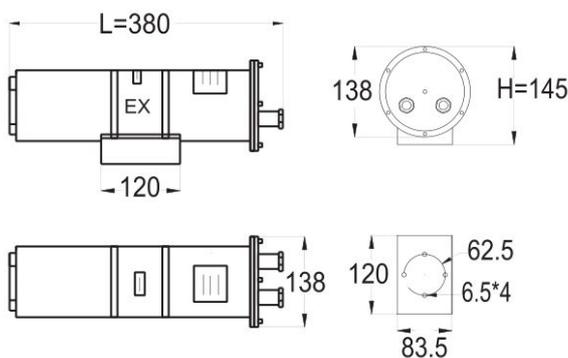
Applicable for the factories having the explosive mixtures formed from class IIA, IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22, such as oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage and so on.

Key features

- 304(316) stainless steel surface treated with fluorine-carbon spray, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%
- Invisible nano wiper, non-stick water, non-stick oil, dust-proof
- Optional temperature-controlled SCR semiconductor module to realize automatic heating and cooling functions, heater turned on when temperature lower than $-10^{\circ}\text{C}\pm 5^{\circ}\text{C}$
- Original stainless steel or Electro-polished surface (optional)
- Support over 80% camera on the market
- Camera cover customizable for larger size

Dimensions

(unit: mm)



EX-H80R (with IR Lamp)



Technical Specifications

Product series		Explosion-proof Camera Housing
Model		EX-H80, EX-H80R (with IR lamp)
Mechanical features	Material quality	304 Stainless steel (316 optional)
	Surface treatment	Fluorine-carbon spray processing
	Anti-hazard classification	ExdIICT6/DIP A20 TA, T6
	Ingress Protection	IP68
	Interface spec	G-3/4"
	Weight	$\leq 6.0\text{kg}$ (13.23lbs)
	Method of installation	Wall mounting
	Outer Dimension	380mm(L) x 138mm(W) x 145mm(H) / 14.96" x 5.43" x 5.71"
Inner Max. Installation Dimension	300mm(L) x 65mm(W) x 65mm(H) / 11.81" x 2.56" x 2.56"	
Window Dimension	60mm(L) x 8mm(H) / 2.36" x 0.315"	
Electrical	Input Voltage	AC220V/AC24V/DC12V, based on camera's power supply requirement
	Working Current	Based on camera's requirement
	IR Distance	30 meters
	Wavelength	850nm
If monitoring in non-light conditions, please select infrared shield		
Environmental	Working temperature	$-45^{\circ}\text{C}\sim +70^{\circ}\text{C}$ / $-49^{\circ}\text{F}\sim 158^{\circ}\text{F}$
	Atmospheric Pressure	86~106kpa
	Relative Humidity	$\leq 95\%\text{RH}$ ($\pm 25^{\circ}\text{C}$)
	Certification	CNEX, ATEX, CE, FCC

EX-H82

Explosion-proof Camera Housing



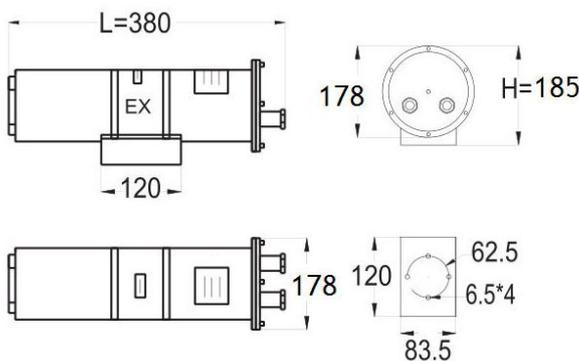
Applicable for the factories having the explosive mixtures formed from class IIA,IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22, such as oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage and so on.

Key features

- 304(316) stainless steel surface treated with fluorine-carbon spray, elegant structure, explosion-proof, dust-proof, water-proof, rust-proof
- Optics class toughened ultra-clear white explosion-proof glass, flux rate higher than 96%
- Invisible nano wiper, non-stick water, non-stick oil, dust-proof
- Optional temperature-controlled SCR semiconductor module to realize automatic heating and cooling functions, heater turned on when temperature lower than $-10^{\circ}\text{C}\pm 5^{\circ}\text{C}$
- Original stainless steel or Electro-polished surface (optional)
- Support over 80% camera on the market
- Camera cover customizable for larger size

Dimensions

(unit: mm)



Stainless steel/Electro-polished surface



Technical Specifications

Product series		Explosion-proof Camera Housing
Model		EX-H82
Mechanical features	Material quality	304 Stainless steel (316 optional)
	Surface treatment	Fluorine-carbon spray processing
	Anti-hazard classification	ExdIICT6/DIP A20 TA,T6
	Ingress Protection	IP68
	Interface spec	G-3/4"
	Weight	$\leq 10.0\text{kg}$ (22.04lbs)
	Method of installation	Wall mounting
	Outer Dimension	380mm(L) x 178mm(W) x 185mm(H) / 14.96" x 7" x 7.28"
Inner Max. Installation Dimension	300mm(L) x 65mm(W) x 65mm(H) / 11.81" x 2.56" x 2.56"	
Window Dimension	60mm(L) x 8mm(H) / 2.36" x 0.315"	
Electrical	Input Voltage	AC220V/AC24V/DC12V, based on camera's power supply requirement
	Working Current	Based on camera's requirement
Environmental	Working temperature	$-45^{\circ}\text{C}\sim +70^{\circ}\text{C}$ / $-49^{\circ}\text{F}\sim 158^{\circ}\text{F}$
	Atmospheric Pressure	86~106kpa
	Relative Humidity	$\leq 95\%\text{RH}$ ($\pm 25^{\circ}\text{C}$)
	Certification	CNEX, ATEX CE, FCC