



**GLOBAIOT**  
LOGISTIC OPERATIONS EXCELLENCE

# **EXPLOSION PROOF CCTV SOLUTIONS**



ENHANCED  
MONITORING FOR  
IMPROVING YOUR  
COMPLIANCE

# EXPLOSION PROOF CCTV SOLUTIONS

Built to function in the most hazardous and challenging environments, our ex-proof CCTV cameras assist you in being watchful of every move at your site . The blend of sturdy body and high resolution lends you a perfect recording of the surroundings. Based on your preferences, you can pick any of our ATEX certified ex-proof cameras from PTZ, Fixed, Mini, Zoom and Digital range. These cameras are approved for Zone 1, Zone 2 and Zone 21, Zone 22. Our team of experts installs them at your facility at various strategic points for your all-round view. Take charge of your operations with the best ex-proof camera in town.



# EX-PROOF MINI IR CAMERA

## KEY FEATURES

- ▾ Robust design for continuous performance in harsh offshore and onshore environments.
- ▾ Low light performance camera with IR cut Shift automatically which provides high quality clear Image.
- ▾ Night Vision; Shock and Vibration Resistant.
- ▾ High performance IR ON/OFF auto switch with light condition.
- ▾ Visible distance above 15 meters with Infrared IR LED.
- ▾ Compact size for easy installation.
- ▾ Optical Window made from toughened Ex-Proof glass, with light transparency >96%.
- ▾ Pig tailed with 5m armoured 5 core cable Working Temperature Range: -25°C ~ +60°C.



Safe-Ex Specialized Explosion Proof compact design camera is an innovative & state of the art Ex type camera manufactured with high specs and endure harsh onshore and offshore environment to give continuous and clear performance.

# TECHNICAL SPECIFICATIONS:

## Certificate of Conformity

Marking	II 2G Ex db II C T6 Gb / II 2D Ex tb III C(85°)Db
Certificate No.	IEP 14 ATEX 0253

## Electrical

Input Voltage	DC12V
Working Current	≤1A

## Camera

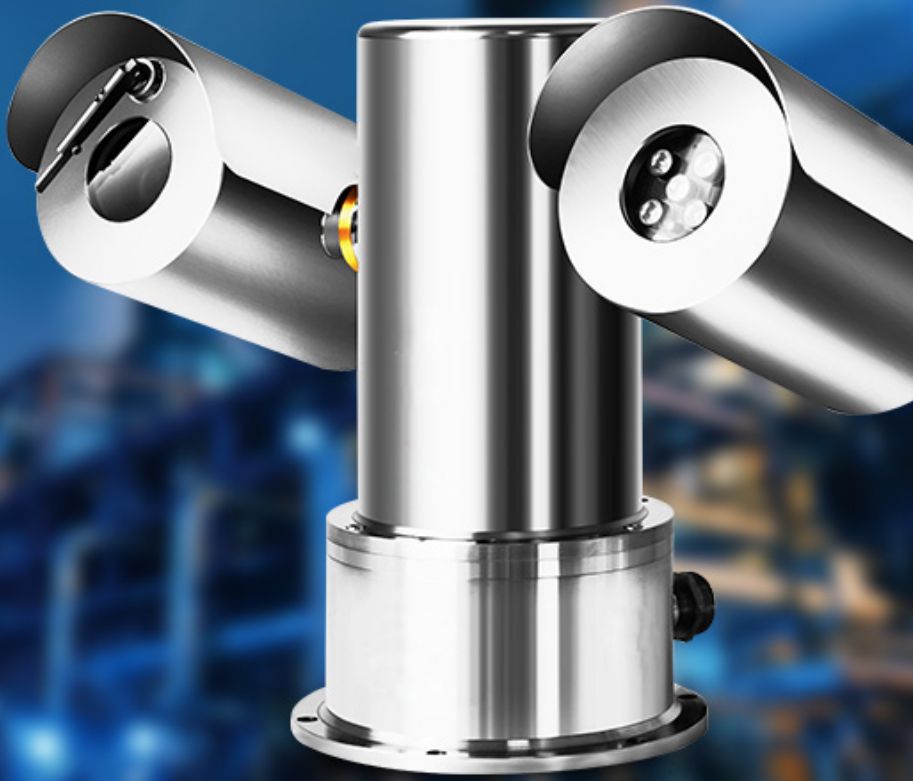
Image Sensor	5 MP 1/2.8" CMOS (IM x 335) OR 2MP 1/2.5" CMOS Sensor
Main Stream	1920*1080 (Video resolution)
Sub Streams	320*240, 352*192, 320*192, 288*192, 256*192
Video Processing	H.264 video encoding, support, Dual stream, AVI format; support 0.1M-6Mbps stream adjustable
Frame Rate	25 Frames, support 1~25 frames per second adjustable.
Signal-to-Noise Ratio	>52dB
Minimum Illumination	For 5MP: Color 0.001Lux@F1.2 (AGC ON), White 0Lux (IR ON) For 2MP: Color & White 0.08Lux@F1.2 (Infra-Red ON)
Lens	4mm / 6mm
IR Distance	15m
Wavelength	850nm
Electrical Connectivity	Composite Cable

## Environmental

Rated Temperature	(-30°C+70°C)
Atmospheric Pressure	80-106KPa
Relative Humidity	≤95%RH (+25°C)

## Mechanical

Dimensions	110mm (L)*90mm (D)*90mm (H)
Material	304 Stainless Steel
Ingress Protection	IP68
Interface Spec	G-1/2"
Method of installation	Ceiling type & wall mounting



# EX-PROOF PTZ CAMERA WITH IR

## KEY FEATURES

- ▶ ATEX, IECEx Approved; Full HD resolution image quality
- ▶ 360° continuous rotation and 30X zoom deliver a full picture of surveillance areas
- ▶ H.264 video compression technology for high-quality images at optimised bandwidth
- ▶ Compliant with IP68 waterproof standard
- ▶ Up to 100 metres IR illumination
- ▶ Applicable for Gas Zone 1, Zone 2, Dust Zone 21, 22.
- ▶ Stainless steel 304 or 316L enclosure
- ▶ Power Supply: DC12V or AC220V
- ▶ Infrared lights, intelligent day/night vision
- ▶ Strong tempered glass, fit for hydrofluoric acid area
- ▶ Intelligent window defroster & Symmetrical balancing design
- ▶ Intelligent long focal speed limit, fit for long distance monitoring



Offered with a mounting bracket, the PTZ or Pan Tilt Zoom camera have sturdy built and can function between  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  temperatures. They offer superb image and video quality and come with an option of 2MP and 5MP. With infrared, watching every move during dark hours isn't a problem with the PTZ Camera.

# TECHNICAL SPECIFICATIONS:

## Certificate of Conformity

Marking  
Cer.No.

Ex II 2G Ex db II C T6 Gb/ II 2D Ex tb III T (Max 80°) Db  
IEP 17ATEX 0549

## Mechanical Features

Material  
Surface Treatment  
Ingress Protection  
Rotation Angle  
Rotation Speed  
Communication Method  
RS-485 Protocols  
Communication Baud Rate  
Interface Spec  
Weight  
Automatic Scanning  
Automatic Cruise  
Tracking  
Max Carrying Capacity  
Method of Installation

304 Stainless Steel  
Original Stainless-Steel Color, Electro polishing Optional  
IP68  
Horizontal 0°~360°, Vertical-90°~+90°  
Horizontal 0.1°/s~30°/s, Vertical 0.1°/s~30°/s  
RS422/485  
Pelco-P, Pelco-D, self-adaptive  
2,400/4,800/9,600/19,200 bps  
G-3/4"  
≤28kg  
1 (Menu control can set 5)  
1 (Menu control can set 8)  
1 (Record 200 instructions)  
10kg  
Wall Mounting & Upright Platform Installation

## Camera

Sensor Type  
Image resolution

1/3" Progressive Scan CMOS  
50HZ:25fps(1920X1080) 60HZ:30fps(1920X1080)  
50HZ:25fps(1280X720) 60HZ:30fps(1280X720)

Minimum Illumination  
White Balance  
Gain  
BLC  
Electronic Shutter  
Digital Zoom  
Focal Length  
Zoom Speed  
Aperture Range

Color: :0.05Lux @ (F1.6,AGC ON) B/W: 0.01Lux @ (F1.6,AGC ON)  
Auto/Manual/ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp  
16 levels adjustable  
OFF/Up/Down/Left/Right/Middle/Auto  
1/1s~1/30,000s  
12x  
4.7mm~94mm, 20x Optical Zoom  
Approx.2.7s (Optical Lens, Wide-Tele)  
F1.6-F3.5

## Electrical Features

Power Supply  
Working Current  
Electrical Connectivity  
Automatic Mode  
Pre-position  
Pre-position accuracy

AC220V  
≤2000mA  
Composite Cable  
Automatic Cruise or Any Setting Two Rounds  
256 Location (Selectable)  
Automatic Correction Error

## Environmental

Rated Temperature  
Atmospheric Pressure  
Relative Humidity

(-30°C+70°C)  
80-106KPa  
≤95%RH (+25°C)



# EX-PROOF FIXED TYPE DOME CAMERA



The sturdy fixed type dome camera is made of stainless steel which traps any spark within its borders. The state-of-the-art dome camera is durable enough to tackle high corrosion attacks besides being waterproof, shock resistant. The option of night vision makes surveillance a breeze in this camera.

## KEY FEATURES

- 304 stainless steel with original color surface treatment, corrosion-proof. Small volume, light weight, flexible installation.
- 5 megapixel 1/2.5" CMOS sensor, 2 mega effective pixel, with faster operation speed digital processor, it can compress bigger size and more clear pictures. Minimum illumination as low as color 0.001Lux@F1.2.
- The fourth generation newest broad dynamic technology, dynamic range greater than 75dB.
- 5m-15m visible infrared distance, high quality image even in bad lighting conditions.
- Process the original signal through 3D digital noise reduction technology so as to make crisp, bright pictures at night.

# TECHNICAL SPECIFICATIONS:

## Mechanical Features

Material	304 Stainless Steel
Surface Treatment	Original Stainless Steel Color Electro polishing Optional
Ingress Protection	IP68
Horizontal Manual Adjustable Range	360°
Vertical Manual Adjustable Range	±45°
Interface Spec	G-1/2"
Method of Installation	Ceiling Type & Column Mounting & Wall Mounting

## Electrical Features

Power Supply	DC12V	
Camera	Image Sensor	5 mega pixel 1/2.5" CMOS sensor
	Resolution	1080P
	Lens	4mm/6mm/8mm/12mm/16mm
	Signal-to-Noise Ratio	>75db

## Environmental

Rated Temperature	(-30°C+70°C)
Atmospheric Pressure	80-106KPa
Relative Humidity	≤95%RH(+25°C)



# EX-PROOF PTZ TYPE DOME CAMERA



Best suited for oil refineries, Onshore & Offshore rigs and petrochemical plants, the ex-proof PTZ Dome Cameras are built to tackle the toughest conditions. They are explosion-proof, dust-proof, water-proof and rust-proof. It is approved for installation in Zone 1, 2, 21 and 22. It is corrosion resistant and anti-fog.

## KEY FEATURES

- ▶ ATEX, IECEx Approved; Full HD resolution image quality
- ▶ Stainless steel with surface electro-polish and passivation treatment, explosion-proof, dust-proof, water-proof, rust-proof.
- ▶ Wide voltage input: DC24V<2A
- ▶ Ingress protection:IP68
- ▶ High-strength, high-transmittance composite material dome cover, meet the requirements of explosion-proof places
- ▶ Multiple seal structure design, no fog on site
- ▶ High-precision stepper motor with worm gear transmission
- ▶ Intelligent telephoto speed limit, suitable for ultra distance monitoring

# TECHNICAL SPECIFICATIONS:

## Certificate of Conformity

Marking

Ex d II C T6 Gb/EX tD A21 IP68 T800C

Certificate No.

CNEx17.3880X

## Mechanical Features

Material

304 Stainless Steel

Surface Treatment

Original Stainless Steel Color / Electro polishing

Optional

Ingress Protection

IP68

Horizontal Rotation Range

360°

Vertical Rotation Range

±90°

Horizontal Rotation Speed

0.02 ~ 200°/s

Tilt Rotation Speed

0.02 ~ 160°/s

Interface Spec

G-3/4"

Weight

≤12kg

Method of Installation

Wall Mounting & Lifting

## Camera

Sensor Type

1/3" CMOS 3516A+ SONY 327

Max. Resolution

1920\*1080@30fps

Minimum Illumination

Color:0.05Lux / B/W:0.01Lux

White Balance

Manual/Auto/Indoor/Outdoor

AGC

Auto/Manual

BLC

ON/OFF

S/N Ratio

≥50dB

## Lens

Focal Length

4.6mm~165mm, 36x Optical Zoom

Zoom Speed

Approx.2.7 s (Optical Lens, Wide-Tele)

Aperture Range

F1.6-F1.8

## Electrical Features

Video Compression

H.265/H.264/MJPEG

Power Supply

DC24V

Working Current

≤2A

Pre-position

220

Position Speed

1-64 grades available

360°Scan

1-64 grades setting available

Lightning Protection

Transient voltage 6000V

Electrical Connectivity

Composite Cable(Network interface + Power)

Automatic Mode

Automatic Cruise or Any Setting Two Rounds

Pre-position accuracy

Automatic Correction Error

## Environmental

Rated Temperature

(-300C+700C)

Atmospheric Pressure

80-106KPa

Relative Humidity

≤95%RH(+250C)



# EX-PROOF ZOOM IR CAMERA



Sculpted with stainless steel, the ex-proof Zoom IR Camera comes with a wall bracket or universal joint. They are waterproof and shock resistant and come with an option of IP and Analogue variants. The infrared swings into action as soon as it detects limited visibility. It's easy to install and is made to work in harsh environments.

## KEY FEATURES

- Explosion-proof design: the camera has passed international ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- 304L or 316L stainless steel enclosure and anti-corrosion spray treatment, protecting the camera from damage caused by sparks or corrosive materials
- IP68 water resistant, preventing water ingress for outdoor use
- H.265+/H.265/H.264+/H.264 encoding: efficient compression technology saves storage space and reduces bandwidth requirements
- AC 100 V to 240 V wide range power supply: easy to deploy cables and safer compared to a power adapter solution

# TECHNICAL SPECIFICATIONS:

## Certificate of Conformity

Marking  
Cer.No.

II 2G Ex db IIC T6 Gb / II 2D Ex tb IIIC (85°C)Db  
IEP 14 ATEX 0251

## Mechanical Features

Material  
Surface Treatment  
Ingress Protection  
Interface Spec  
Weight  
Method of Installation

316L Stainless Steel  
Stainless Steel Original Color, Electropolishing Optional IP68  
G-3/4"  
≤8kg  
Wall Mounting

## Camera

Sensor Type  
Effective Pixel  
Minimum Illumination

1/2.8" Progressive Scan CMOS  
3MP 30X zoom  
Color: 0.01Lux @ (F1.6,AGC ON / B/W: 0.001Lux @ (F1.6,AGC ON)

Image Output

Main Stream:  
50Hz:25fps(2048\*1536,1920x1080,1280\*720)  
60Hz:30fps(2048\*1536,1920x1080,1280\*720)  
Second Stream:  
50Hz:25fps(D1/VGA/640x360/CIF/QVGA)  
60Hz:30fps(D1/VGA/640x360/CIF/QVGA)  
Third Stream:  
50Hz: 25fps(VGA/ CIF/QVGA)  
60Hz: 30fps(VGA/ CIF/QVGA)

HLC  
WDR  
BLC  
DNR  
EIS  
Defog  
Video Compersion

Yes  
120dB  
Yes  
2D/3D DNR  
Yes  
Yes  
H.265/H.264/MJPEG

## Lens

Focal Length  
Zoom  
Field of View

4.5~135mm  
30X optical zoom, 16x digital zoom  
59.8°~2.3°(Wide-Tele)

## IR

Distance  
Wavelength  
Switch

30m/60m  
850nm  
Switch

## Electrical Features

Power Supply  
Working Current  
Electrical Connectivity

DC12V or AC110-240V  
≤2000mA  
Composite Cable

## Environmental

Rated Temperature  
Atmospheric Pressure  
Realative Humidity

(-30°C+70°C)  
80-106KPa  
≤95%RH(+25°C)



# EX-PROOF MOBILE



Specially built to tackle hazardous atmospheres, the explosion proof mobile from SharpEagle gets the latest Android 9.0 operating system. It gets a rating of IP67 for water resistance. The ex-proof mobile gets a powerful 4000Mah battery that lasts longer than most phones. It gets 2GB RAM and 16GB internal storage.

## KEY FEATURES

- Operation : Android 9.0
- Display : 5.0inch IPS 1280\*720
- Camera : Rear 8.0 MP
- CPU : Octa Core MT6762
- Storage : ROM+RAM: 16GB+2GB
- Comes with a 2D scanner SE4710
- Fingerprint : Support



# EXPLOSION PROOF SPEED DOME CAMERA

## KEY FEATURES

- ▶ IP68 Rated, 304 / 316 Stainless steel material;
- ▶ Automatic display: control protocols, baud rate, address functions managing title information, PTZ
- ▶ Video playback function, 256 three dimensional preset, The preset position accuracy is 0.1 degrees, 4 route 16 preset, Limiting automatic scanning function.
- ▶ RS485 interface, two levels of lightning protection, Network Transparent Channel Connection that can be controlled via TS38ABFG.
- ▶ Progressive scan - 1/2.8" Progressive Scan CMOS 33x optical zoom + 16x digital
- ▶ Resolution: Full HD (1920\*1080)
- ▶ Backlight compensation, Motion detection, Scheduled and triggered event functionality with alarm notification, Pre and post alarm buffer, Digital time, date code embedded, Password protection.



Best suited for oil refineries, Onshore & Offshore rigs and petrochemical plants, the Ex-Proof Speed Dome IR Camera is built to tackle the toughest conditions. They are explosion-proof, dust-proof, water-proof and rust-proof. It is approved for installation in Zone 1, 2, 21 and 22. It is corrosion resistant and anti-fog. The sturdy PTZ type dome camera is made of stainless steel which traps any spark within its borders. The state-of-the-art dome camera is durable enough to tackle high corrosion attacks besides being waterproof, shock resistant. The option of night vision makes surveillance a breeze in this camera.

# TECHNICAL SPECIFICATIONS:

## Certificate of Conformity

Marking  
Cer.No.

Ex d IIC T6 Gb/EX tD A21 IP68 T800C  
CNExI7.3880X

## Mechanical Features

Material  
Surface Treatment  
Ingress Protection  
Horizontal Rotation Range  
Vertical Rotation Range  
Level Speed  
Vertical Speed  
Interface Spec  
Weight  
Method of Installation

304 Stainless Steel  
Original Stainless Steel Color, Electropolishing Optional  
IP68  
360°  
±90°  
1-300°/Sec  
1-180°/Sec  
G-1/2"  
≤12kg  
Wall Mounting & Lifting

## Camera

Sensor Type  
Image Max Resolution  
Image resolution

1/2.8" Progressive Scan CMOS  
1920\*1080  
50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720);  
60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)  
Color: 0.001 Lux @(F1.5, AGC ON), B/W: 0.0005 Lux @(F1.5, AGC ON)  
Corridor mode, saturation, brightness, contrast and sharpness can be adjusted by client or browse

Minimum Illumination  
Image Setting

Support  
Support  
Support  
Automatic, timing, alarm trigger  
Support  
120 dB  
Support BMP 24 bit image overlay, optional region  
1/25s~1/100,000s  
16x

BLC  
Defog  
Area Exposure/Focus  
Day & Night Mode  
3D DNR  
WDR

Image overlay  
Electronic Shutter  
Digital Zoom

## Lens

Focal Length  
Zoom Speed  
Field of View

5.5mm~180mm, 33x Optical Zoom  
Approx.3.5s (Optical Lens, Wide-Tele)  
60.5°~2.3°(Wide-Tele)

## IR

Distance  
Wavelength  
Switch

80/100m  
850nm  
Auto(≤10Lux)

## Compression Standard

Video Compression  
Audio Compression  
Video Stream Range

H.265 / H.264 / MJPEG  
G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM  
32 Kbps~16Mbps

## Function

Material

Transboundary detection, area intrusion detection, entry/exit area detection, loitering detection, crowd detection, rapid movement detection, parking detection, and leave/take detection, scene change detection, audio detection, virtual focus detection, face detection

## Electrical Features

Power Supply  
Working Current  
Electrical Connectivity  
Pre-position accuracy

DC24V  
≤2A  
Composite Cable  
Auto Correction Error

## Environmental

Rated Temperature  
Atmospheric Pressure  
Relative Humidity

(-300C+700C)  
80-106KPa  
≤95%RH(+250C)