

HIKVISION®



COMPLETE PROTECTION
WITH SUPERIOR DESIGN INSIDE & OUT
HIKVISION
EXPLOSION-PROOF PRODUCTS



BACKGROUND

On average, accidental explosions cause 7 casualties a day. With the rapid development of industries dealing with flammable and combustible materials, such as oil, chemical, coal, and others, explosion accidents have become more frequent, resulting in loss of life and resources. Most of these accidents are the result of machinery malfunction, which reminds everyone of the importance of safety awareness.

What kind of products help prevent such accidents and injuries when such malfunctions occur?

Primarily, explosion-proof devices.

HOW TO PREVENT EXPLOSIONS

THE THREE ELEMENTS OF COMBUSTION

Explosive substances and combustion-supporting gases are the external factors that product manufacturers cannot control.

However, manufacturers can control the internal factors – the combustion source.



Explosive substances
(Combustible gases & solids)



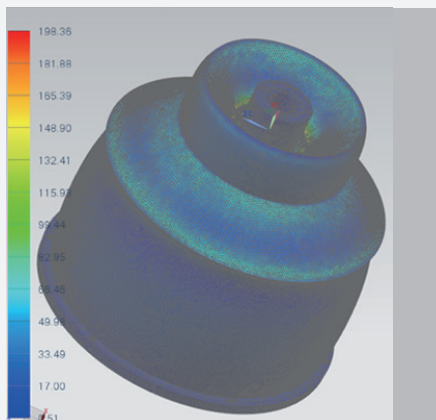
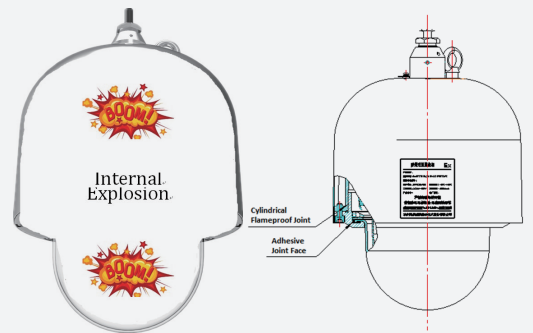
Combustion-supporting gases
(Oxygen)



Combustion source
(controllable factor: Sparks or flames)

Explosion-proof structure

Hikvision explosion-proof cameras use flame-proof housing and a cylindrical flame-proof joint. The adhesive joint guides internal explosive gases to the conduit to prevent combustion from escaping the camera when an explosion happens.



Explosion-proof materials

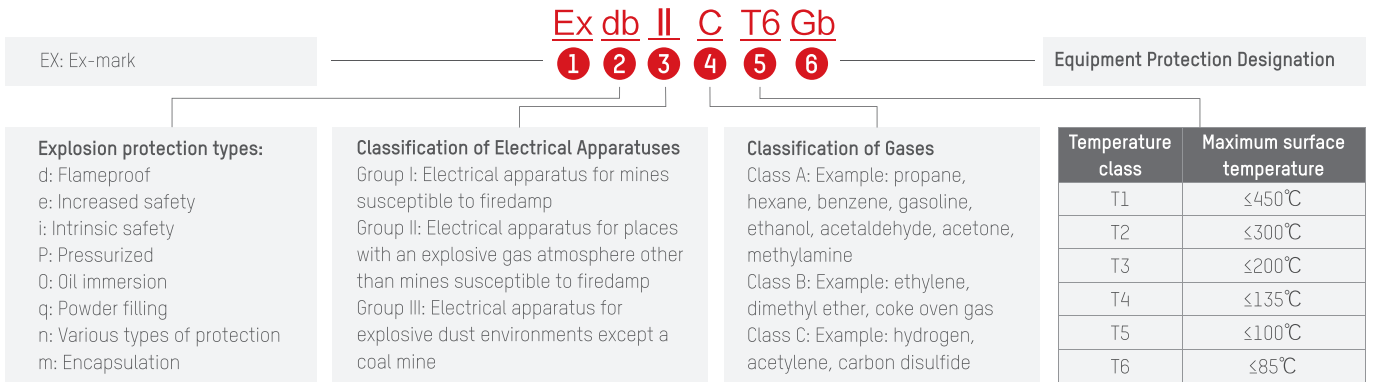
Hikvision explosion-proof cameras are covered by 304/316L stainless steel, and the thickness of the cover is more than 3.5 mm. Using ANSYS for finite element force analysis, the structure can withstand 1.5 times internal explosion pressure. No broken or permanent deformation results after an explosion.

CERTIFICATION

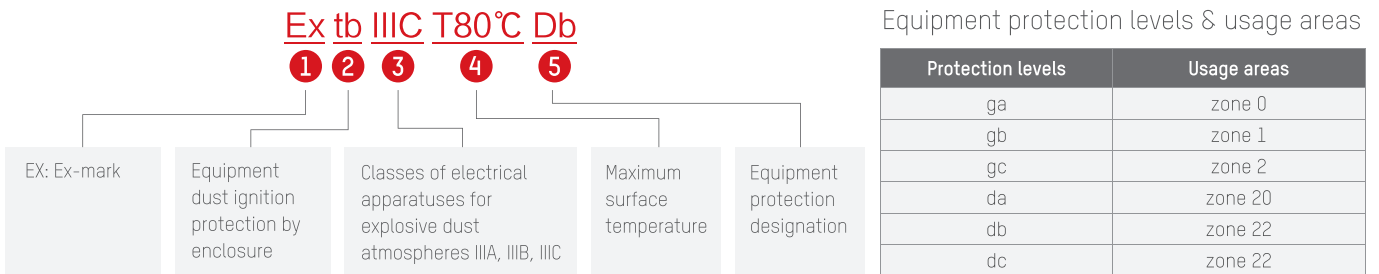
IECEx AUTHENTICATION

The IECEx authentication includes 'Gas Explosion-proof' and 'Dust Explosion-proof' certifications.

Gas explosion-proof designations:

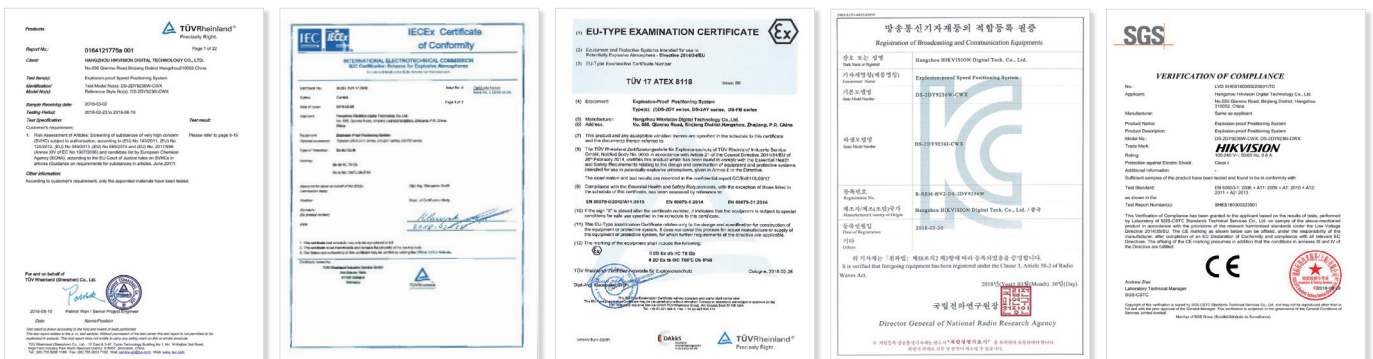


Dust explosion-proof designations:



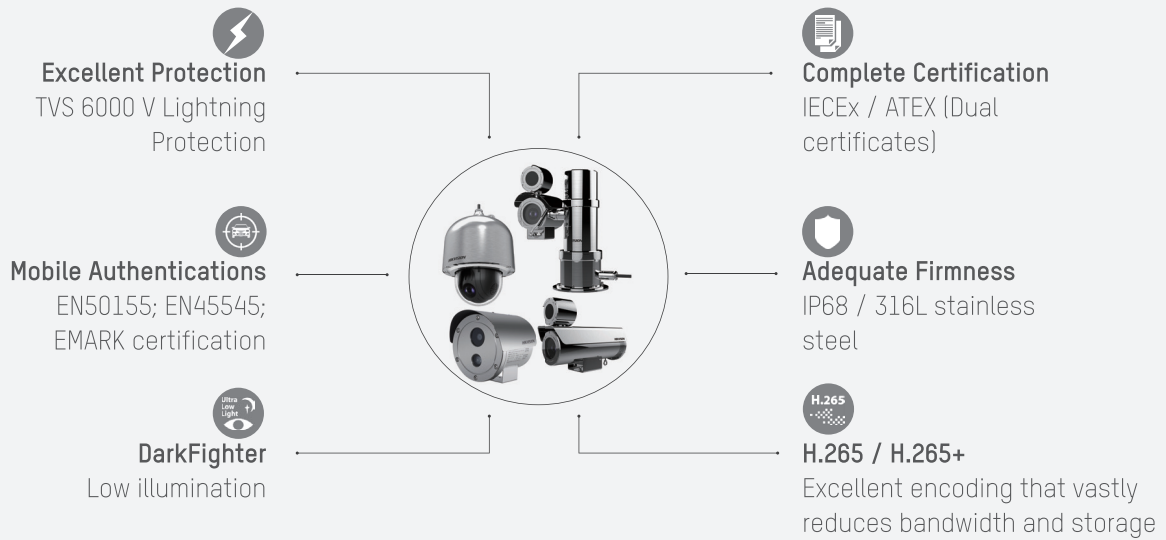
All Hikvision explosion-proof products have acquired the IECEx and ATEX certifications.

IECEx Authentication	ATEX Authentication	Mobile Authentication (available for mobile models)
<ul style="list-style-type: none"> Ex db IIC T6 Gb Ex tb IIIC T80°C Db 	<ul style="list-style-type: none"> II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T80°C Db 	<ul style="list-style-type: none"> EN50155; EN45545; EMARK Ant-corrosion: C5 (C5-I, C5-M); NEMA4X CE / FCC / IC / RCM / KC / RoHS / REACH / WEEE / UL (not cUL) / CSA

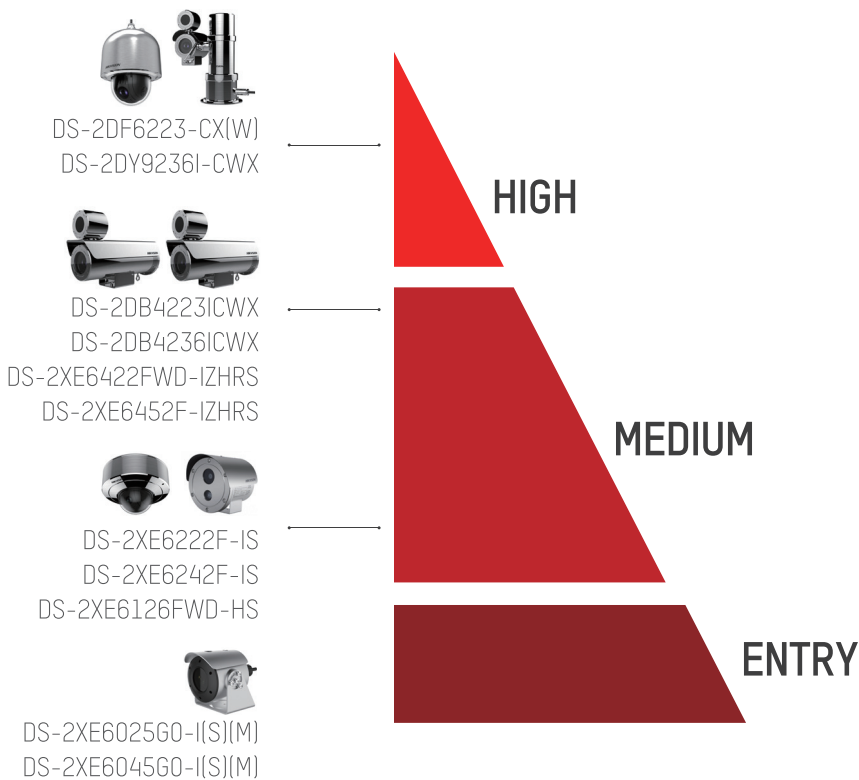


PRODUCT SHOWCASE

Highlights



Product Matrix



Optical zoom	Resolution	IR distance	Others
36x / 23x	2 MP	150 meters	304/316L stainless steel body available
23x / 36x / 4x / fixed lens	2 / 4 / 5 MP	200 meters 200 meters 80 meters 150 meters 30 meters	5.9-137.5 mm 5.7-205 mm 2.8-12 and 8-32 mm 2 / 2.8 / 4 / 6 / 8 / 12 / 16 mm lenses available
Fixed lens	2 / 4 MP	30 meters	4 / 6 / 8 mm

PRODUCT SHOWCASE

DS-2DF6223-CX(W)
Network Speed Dome



- 2 MP 1/1.8" progressive scan CMOS
- Up to 1920 x 1080 resolution
- 23x optical zoom; focal length: 5.9 to 135.7 mm
- Min. illuminations:
Color: 0.005 lux @ (F1.5, AGC ON)
B/W: 0.0005 lux @ (F1.5, AGC ON)
- IR cut filter with auto switch
- 3D DNR, low bitrate, 120 db WDR
- IP68 standard
- Supports three streams simultaneously

DS-2DY9236I-CWX(W/316L)
Positioning System



- 2 MP 1/1.8" @ 30 fps progressive scan CMOS
- Min. illumination:
Color: 0.002 lux @ (F1.5, AGC ON)
B/W: 0.0002 lux @ (F1.5, AGC ON)
0 lux with IR
- 36x optical zoom, 16x digital zoom
- 120 dB WDR, HLC, BLC, 3D DNR, Defog, EIS, Regional Exposure, Regional Focus
- Up to 150 m IR distance

DS-2XE6422FWD-IZHRS
DS-2XE6452F-IZHRS
EXIR VF Bullet



- Up to 5 MP high resolution
- 120 dB WDR
- 2.8 to 12 mm or 8 to 32 mm lens
- 6 behavior analyses, 3 anomaly detections, 1 statistics and face detection
- IR up to 150 m (8-32 mm) or 80 m (2.8-12 mm)
- IP68 standard
- 316L stainless steel
- Wiper

DS-2DB4223I-CX(WE/316L)
DS-2DB4236I-CWX(WE/316L)
IR ZOOM Bullet



- 2 MP 1/1.8" progressive scan CMOS
- Min. illumination:
Color: 0.002 lux @ (F1.5, AGC ON)
B/W: 0.0002 lux @ (F1.5, AGC ON)
0 lux with IR
- 23x optical zoom, 12x digital zoom
- Digital WDR, 3D DNR, HLC, BLC
- 85 to 245 VAC & PoE+ (IEEE 802.3at class 4)
- Up to 200 m IR distance

DS-2XE6222F-IS
DS-2XE6242F-IS
Fixed Lens Bullet



- Up to 4-Megapixel resolution
- 4 / 6 / 8 / 12 mm lens, optional
- 120 dB WDR
- 6 behavior analyses, 2 anomaly detections, 1 recognition
- Housing material: 304 or 316L stainless steel, optional
- IR range: 30 m
- 100 to 240 VAC / PoE
- IP68 / IK10

DS-2XE6126FWD-HS
DS-2XE6146FWD-HS
Fixed Lens Dome






- 1/2.8" Progressive Scan CMOS
- 2 / 2.8 / 4 / 6 mm lens, optional
- Up to 4-Megapixel high resolution
- 120 dB WDR
- 316L stainless steel
- Image enhancement: BLC, 3D DNR, HLC, Defog, EIS
- Behavior analyses, exception detections and face detection
- IP68

DS-2XE602560-I(S)(M)
DS-2XE604560-I(S)(M)
Fixed Lens Bullet

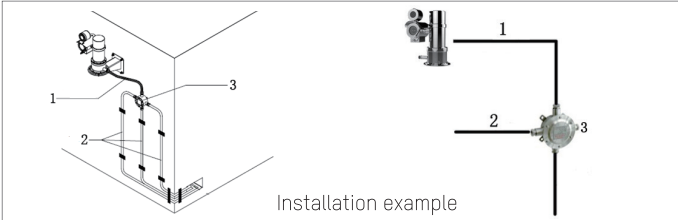


- 1/2.7" Progressive Scan CMOS
- Up to 4 megapixel high resolution
- 4 / 6 / 8 mm lens, optional
- 120 dB WDR
- 6 behavior analyses, 2 anomaly detections, 1 recognition
- Housing material: Aluminum
- IR range: 30 m
- 24 VDC / PoE
- IP68 / IK08

These accessories are ATEX and IECEx certified

Accessories	Anti-explosion Accessories (Standard / Optional)	Ordering Guide
 Bracket	Bracket, used to install anti-explosion cameras	Different models use different brackets, based on specific recommendations. Pre-installed plate brackets are recommended.
 Flexible Conduit	Anti-explosion Hose to protect cables that connect electrical devices together Length: 1 meter	302702495, DS-1677ZJ-XS-1.0 (D) 302702523, DS-1677ZJ-XS-1.0 (C2) (C2 can cover D)
 Explosion-proof Terminal Box	304 or 316L Stainless Steel, optional Four cable outlets ATEX and IECEx certified explosion-proof performance: • II 2 G Ex db IIC T6 Gb • II 2 D Ex tb IIIC T80°C Db IP68	302702052, DS-2780ZJ-X/316L 302702054, DS-2780ZJ-X 272 × 272 × 96.8 mm (10.7 × 10.7 × 3.8")

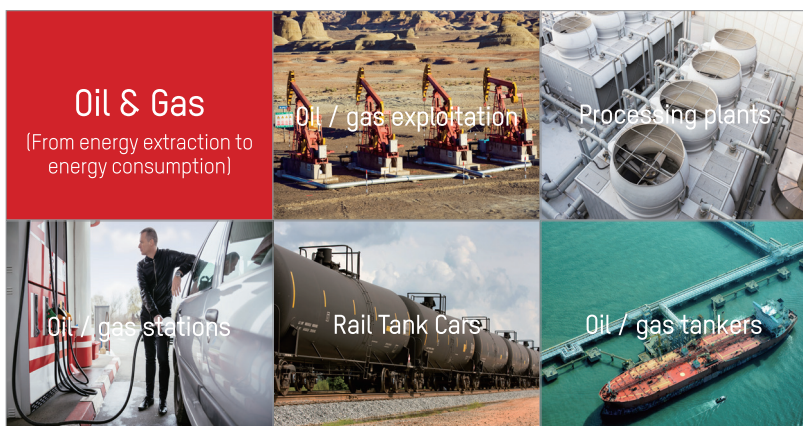
Installation Example – Total Explosion-proof Solution



No.	Each part is explosion-proof, ensuring an overall explosion-proof solution
1	Flexible conduit, 220 V power line, control line, network cable
2	Flexible conduit or galvanized steel pipe
3	Explosion-proof terminal box (IECEX and ATEX certified and with IP68 ingress protection)

APPLICATIONS

Gas Explosion-proof



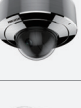



Dust Explosion-proof



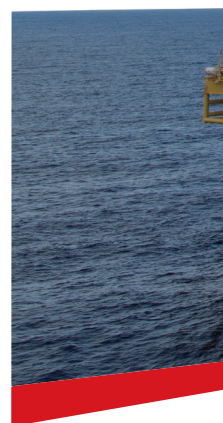
Example – Oil Depots



Area	Recommended Products	
Loading area	Explosion-proof bullet, explosion-proof PTZ	
Tank area	Explosion-proof positioning system, explosion-proof bullet	
Monitoring area	Explosion-proof fixed lens dome	
Office area	HD network cameras	



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