

**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)



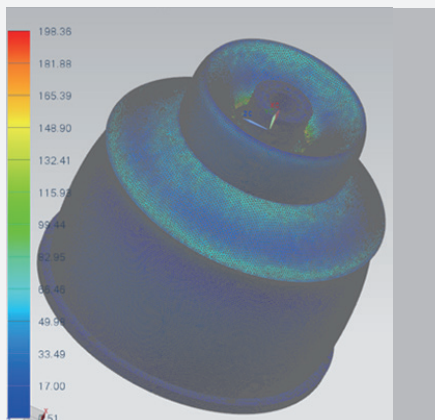
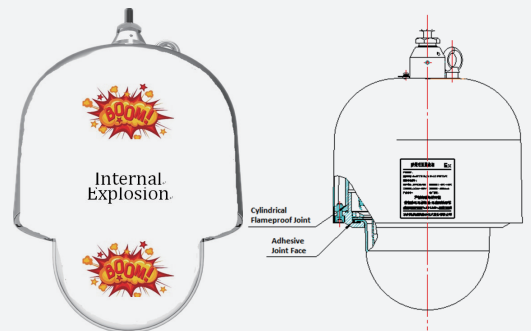
Combustion-supporting gases  
(Oxygen)



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.

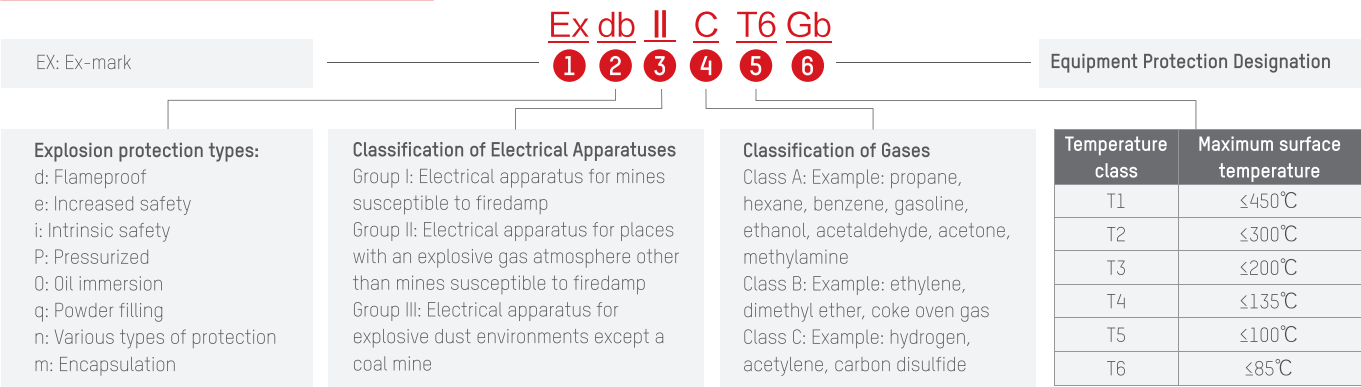


# CERTIFICATION

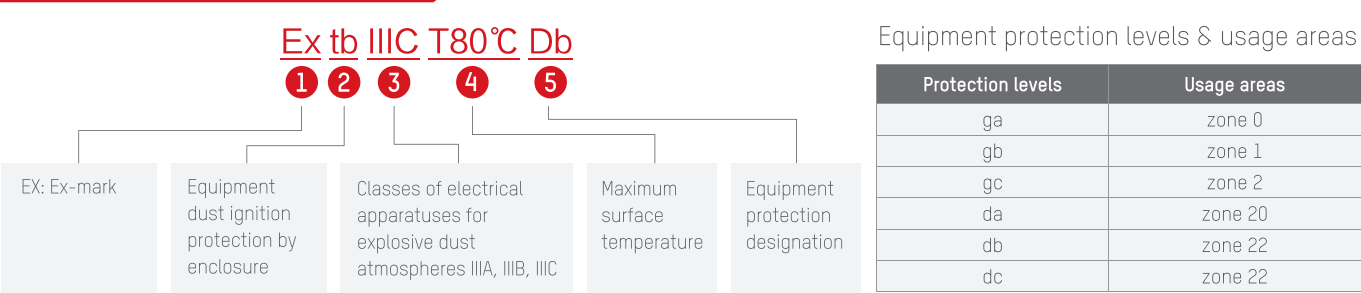
## IECEx AUTHENTICATION

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

- Ex db IIC T6 Gb
- Ex tb IIIC T80°C Db

### ATEX Authentication

- II 2 G Ex db IIC T6 Gb
- II 2 D Ex tb IIIC T80°C Db

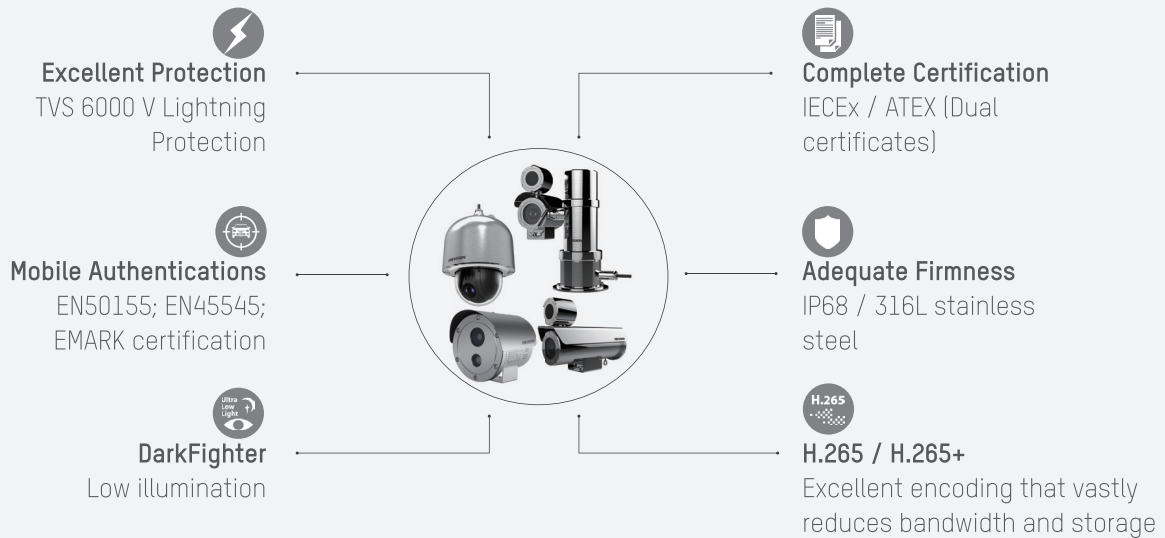
### Mobile Authentication (available for mobile models)

- EN50155; EN45545; EMARK
- Ant-corrosion: C5 (C5-I, C5-M); NEMA4X
- CE / FCC / IC / RCM / KC / RoHS / REACH / WEEE / UL (not cUL) / CSA

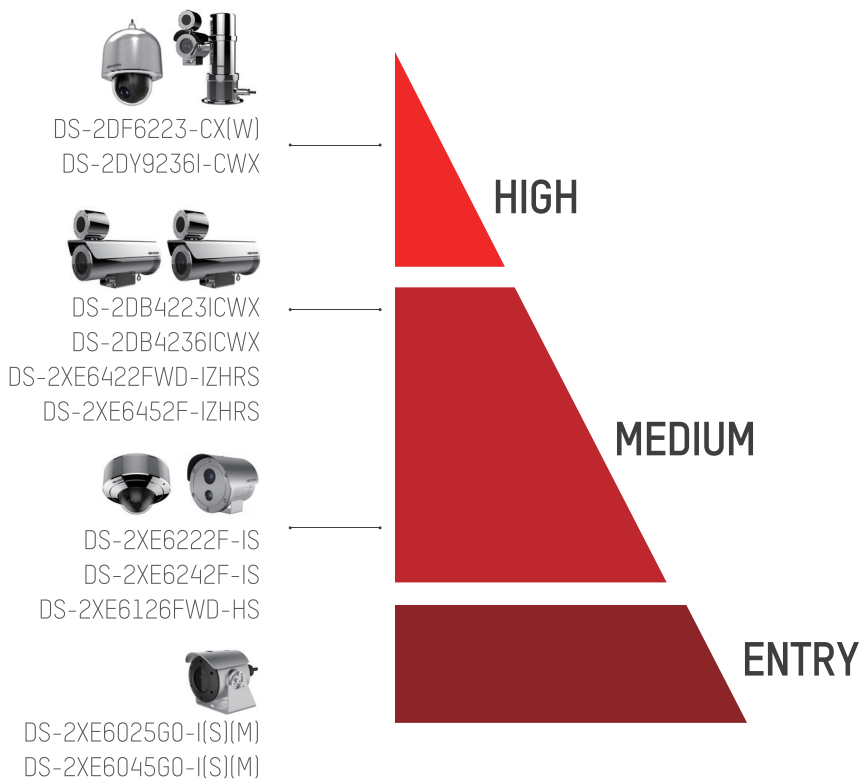


# PRODUCT SHOWCASE

## 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

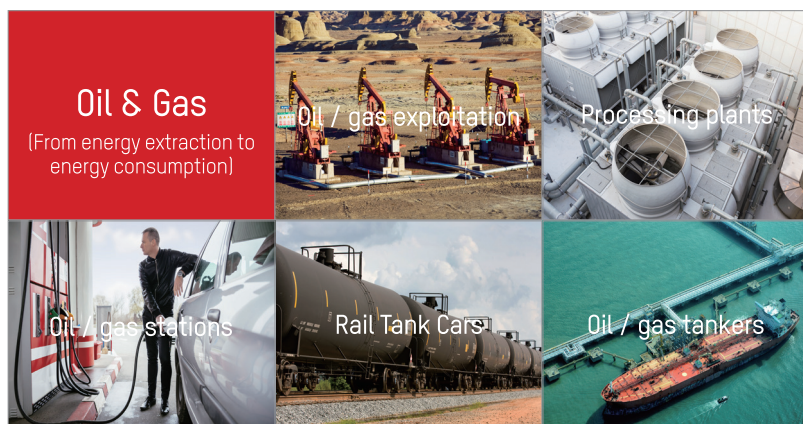
Accessories	Anti-explosion Accessories (Standard / Optional)	Ordering Guide
 Bracket	Bracket, used to install anti-explosion cameras	Different models use different brackets, based on specific recommendations. Pre-installed plate brackets are recommended.
 Flexible Conduit	Anti-explosion Hose to protect 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

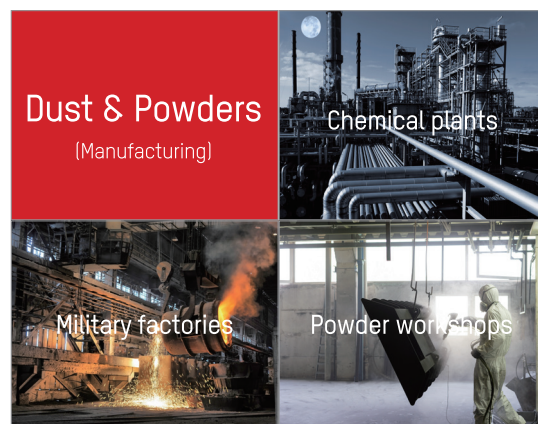
 <p>Installation example</p>	<table> <tr> <th>No.</th><th>Each part is explosion-proof, ensuring an overall explosion-proof solution</th></tr> <tr> <td>1</td><td>Flexible conduit, 220 V power line, control line, network cable</td></tr> <tr> <td>2</td><td>Flexible conduit or galvanized steel pipe</td>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

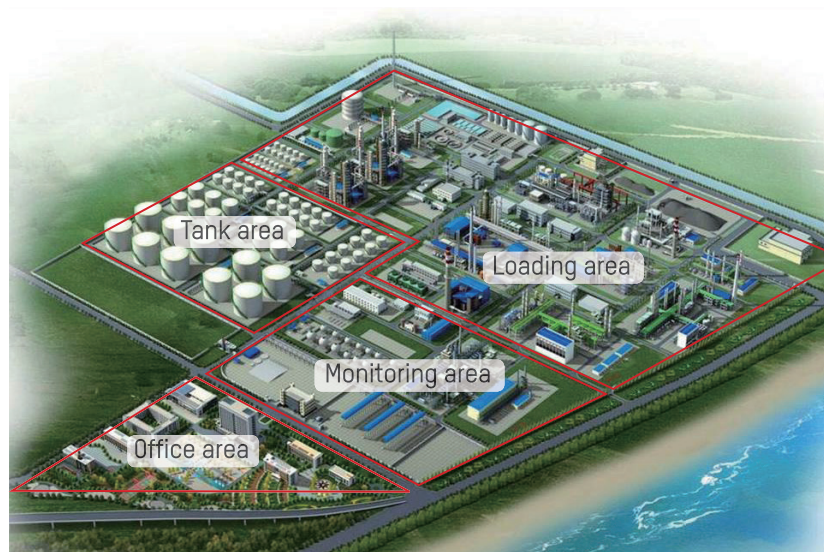
### Gas Explosion-proof







### 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	





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

Distributed by



**HIKVISION®**

**Headquarters**

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**

T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**

T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**

T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**

T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**

T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Germany**

T +49-69-401507290  
sales.adch@hikvision.com

**Hikvision Europe**

T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**

T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**

T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**

T +90 (216) 521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**

T +6-032-7224000  
sales.my@hikvision.com

**Hikvision UK & Ireland**

T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**

Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**

T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**

T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**

T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**

T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**

T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**

T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**

T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**

T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**

T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**

T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**

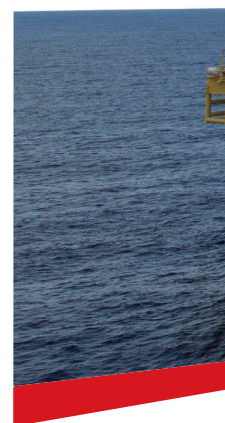
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**

T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**

sales.colombia@hikvision.com



www.hikvision.com

Follow us on social media to get the latest product and solution information:



Hikvision



HikvisionHQ



HikvisionHQ



Hikvision\_Global



hikvisionhq



Hikvision  
Corporate Channel