

HIKVISION[®]

First Choice for Security Professionals



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



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HIKVISION EXPLOSION-PROOF PRODUCTS

Security cameras and other video surveillance technologies are finding new applications in every sector of science, business, and daily life, providing automated services and data in ways that were only imagined a few years ago. These intelligent functions extend the reach of human capabilities by putting cameras into settings that are often unsafe for people.

As a result, camera designs needed to incorporate protection from the environment for the camera's safety. And now, in specialized applications such as a chemical plant containing combustible gases, protection from the camera for the environment's safety has become an important issue. In the event a camera causes some kind of hazard in these areas, that camera must be prevented from causing a larger emergency. This need has given rise to the Explosion-proof Video Surveillance Camera, built to contain a serious malfunction within the camera body so as not to set off a chain reaction.

Continue reading to learn how this technology works.

■ The Three Ingredients of Combustion

- Explosive substances (Combustible gases & solids)
- Combustion-supporting gases (Oxygen)
- Combustion source (Sparks or flames)



Explosive substances
(Combustible gases & solids)



Combustion-supporting gases
(Oxygen)



Combustion source
(controllable factor: Sparks or flames)

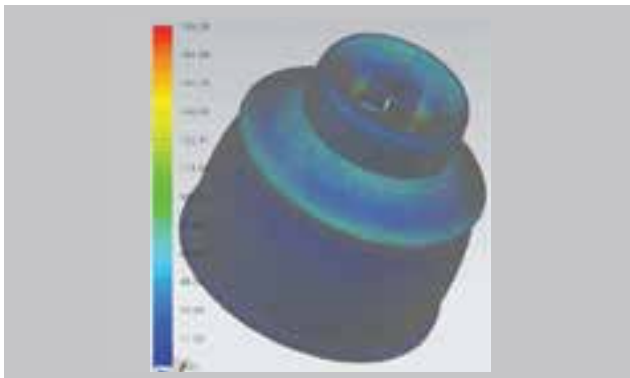
■ How to Prevent Explosions

We know that there are three ingredients necessary for combustion. The explosive substances and combustion-supporting gas are the external factors we cannot control. But we can control the internal factor: the **combustion source**

■ Flame-Proof Principle

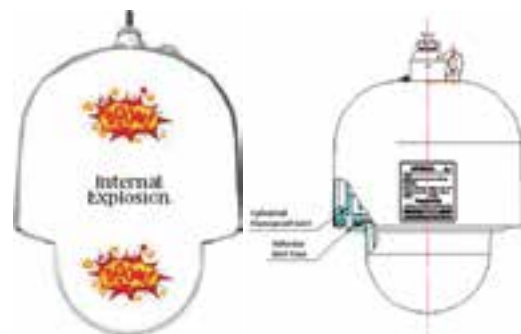
1) Explosion Resistance

Hikvision Explosion-Proof Series Cameras are housed in 304/316L stainless steel, with a thickness of more than 3.5 mm. Using ANSYS for finite element force analysis, the housing can withstand 1.5 times internal explosion pressure. There is no breaking or permanent deformation after an internal explosion.



2) These cameras use flame-proof housing to prevent failure.

The cylindrical flameproof joint and adhesive joint face prevent flames or sparks from escaping out of the camera when an explosion happens.



■ Application Scenarios

Hikvision Explosion-Proof Series Cameras are equipped with explosion-proof housing which is made of Stainless Steel (304/316L stainless steel). It can be widely used in places such as: Oil/Gas fields, wharfs, petrochemical plants, military industries, and more.



Oil & Gas Fields



Gas Stations



Chemical Plants



Metal Processing



Powder Workshops



Mining Areas



Product Features



DS-2XE6242F-IS
DS-2XE6242F-IS/316L
4MP Explosion-Proof Network
Bullet Camera



Ex II 2 G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP68

- Up to 4 Megapixel high resolution
- 4, 6, 8, 12, and 16 mm lens options
- Supports 120 dB Wide Dynamic Range
- Supports H.265, H.265+, H.264, H.264+
- Supports three video streams simultaneously
- Supports 6 behavior analyses, 2 anomaly detections, 1 recognition
- Supports on-board storage up to 128 GB
- Housing material: Stainless Steel 304 (316L: -/316L)
- IR range: 30 m
- 100 VAC to 240V / PoE



DS-2XE6222F-IS
DS-2XE6222F-IS/316L
2MP Explosion-Proof Network
Bullet Camera



Ex II 2 G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP68

- Up to 2 Megapixel high resolution
- 4, 6, 8, 12, 16 mm lens optional
- Supports 120 dB Wide Dynamic Range
- Supports H.265, H.265+, H.264, H.264+
- Supports three video streams simultaneously
- Supports 6 behavior analyses, 2 anomaly detections, 1 recognition
- Supports on-board storage up to 128 GB
- Housing material: Stainless Steel 304 (316L: -/316L)
- IR range: 30 m
- 100 VAC to 240V / PoE



DS-2DF6223-CX(W)
2MP Explosion-Proof
Network Speed Dome



Ex II 2 G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP68

- 2 MP 1/1.8" progressive scan CMOS
- Up to 1920 x 1080 resolution
- 23x Optical zoom; Focal length: 5.9 mm to 135.7 mm
- Min. illuminations – Color: 0.005Lux @(F1.5, AGC ON), B/W: 0.0005Lux @(F1.5, AGC ON)
- IR cut filter with auto switch
- 3D DNR, low bitrate, 120 db WDR
- Explosion-Proofing:
II 2 G Ex td IIC T6 Gb, Ta -40 – 60°C
II 2 D Ex tb IIIC T80°C Db
- IP68 standard protection rating
- Supports three streams simultaneously



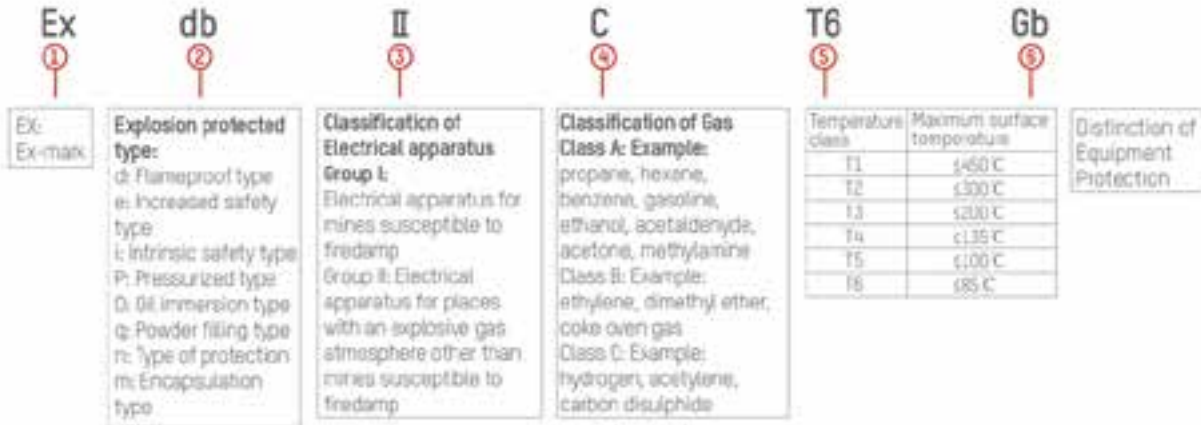
Coming Soon

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

- 2 MP /5MP
- Support H.265/H.265+
- DarkFighter (2 MP), 2.8-12mm, 8-32mm (2 MP)
- Up to 150m (8-32mm) / 80m (2.8-12mm)
- IP68 standard
- 316L stainless steel
- NEMA 4X, C5-M, ATEX, IECEx standard
- R:Wiper

■ ATEX Authentication

ATEX Authentication includes 'Gas Explosion-proof Sign' and 'Dust Explosion-proof Sign'



Gas Explosion-proof Sign



Dust Explosion-proof Sign



Hikvision ATEX authentication



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پارس ارتباط افزار

تنها نماینده رسمی HIKVISION در ایران



پارس ارتباط افزار

تهران، خیابان شهید بهشتی، خیابان سرافراز، کوچه سوم، پلاک ۱۲

تلفن: ۰۲۱ - ۸۹۳۹۵

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