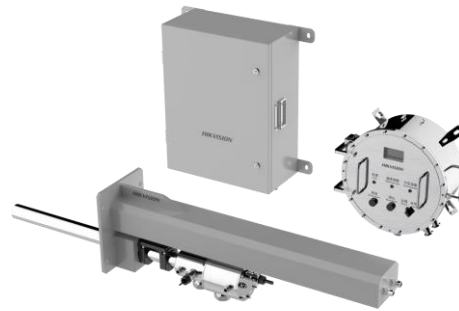


DS-2XE8047FWD-LTH Explosion-Proof Furnace Camera



Applied for remote internal observation in various heating furnace types in petrochemical refining and chemical industry production equipment. Suitable for environments with explosive mixtures formed by flammable gases, vapors, and air, as well as hazardous locations with explosive risks from combustible dust-air mixtures.

- Explosion-proof design: the camera has passed international ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- Explosion-proof sign: Ex db IICT6 Gb / Ex tb IIIC T80°C Db (Explosion-proof Furnace Camera) / Ex db ib IICT6 Gb / Ex ib tb IIIC T80°C Db (Explosion-proof Control Box)
- Water and dust resistant: IP66/IP68 (2m/2h) for the camera, IP68 for the control box, and IP65 for others
- H.265+/H.265/H.264+/H.264 encoding: efficient compression technology saves storage space and reduces bandwidth requirements
- Application environment temperature: -20 °C (-4 °F) to 2000 °C (3632 °F), cooling protection required

▪ Specification

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON)
Shutter Time	1/30 s to 1/30,000 s
Lens	
Focus	Manual, Auto, Semi-auto
Lens Type	CS
Focal Length & FOV	0° lens: 36 to 110 mm, horizontal FOV: 85.5 to 30.9°, vertical FOV: 47.0 to 17.4°, diagonal FOV: 91.2 to 35.1° 60° lens: 36 to 110 mm, horizontal FOV: 63.2 to 24.0°, vertical FOV: 40.1 to 16.5°, diagonal FOV: 71.1 to 28.9°
Aperture	F8
Iris Type	Auto-iris
Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	5 fixed regions for stream
Target Cropping	Yes
Network	
Simultaneous Live View	Up to 6 channels
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Protocols	IPv4, HTTPS, RTP, DNS, HTTP, SSL/TLS, ICMP, Bonjour, IPv6, QoS, WebSockets, 802.1X, SNMP, FTP, RTCP, DDNS, PPPoE, SFTP, SMTP, NTP, RTSP, WebSocket, IGMP, DHCP, UDP, UPnP, TCP/IP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user

Network Storage	NAS (NFS, SMB/CIFS)
Client	iVMS-4200,Hik-Central
Web Browser	Plug-in required live view: IE 10,IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Wide Dynamic Range (WDR)	120 dB
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction
Image Parameters Switch	Yes
Image Settings	saturation,brightness,contrast,sharpness,white balance,adjustable by client software or web browser
SNR	≥ 52 dB
Privacy Mask	Yes
Interface	
Alarm	Under-Pressure Alarm, High-Temperature Alarm
On-Board Storage	Built-in memory card slot,support microSD/microSDHC/microSDXC card, up to 512 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
Power Output	220 VDC National Standard Cable, LN Pin-type Terminals Connect to Terminal Block, PE OT-type Terminal Grounded.
Event	
Basic Event	Exception (network disconnected,IP address conflict, illegal login, HDD full, HDD error, abnormal restart), alarm input and output
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording
General	
Power	100 to 240 VAC, 0.34 A, 30 W
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-20°C (-4 °F) to 2000 °C (3632 °F), humidity less than 95% (non-condensing), air cooling (using 25 °C air (77 °F air)): 1. Maximum ambient temperature 2000 °C (3632 °F), device cooling air inlet pressure not less than 0.3 MPa, camera cooling air volume not less than 35 m³/h. 2. Maximum ambient temperature 1150 °C (2102 °F), device cooling air inlet pressure not less than 0.3 MPa, camera cooling air volume not less than 30 m³/h. 3. Maximum ambient temperature 950 °C (1742 °F), device cooling air inlet pressure not less than 0.2 MPa, camera cooling air volume not less than 25 m³/h. 4. Maximum ambient temperature 750 °C (1382 °F), device cooling air inlet pressure not less than 0.2 MPa, camera cooling air volume not less than 23 m³/h. The temperature at the location of the temperature-sensitive probe must be below 120 °C (248 °F), and the temperature of the outer wall at the device installation location must be below 60 °C (140 °F). Additional cooling equipment is required under high-temperature conditions.

Dimension	Explosion-proof Furnace Camera (0°): 1101 × 163 × 184 mm (43.35" × 6.42" × 7.24") Explosion-proof Furnace Camera (60°): 1116 × 163 × 184 mm (43.94" × 6.42" × 7.24") Explosion-proof Pneumatic Box: 692 × 645 × 257.5 mm (27.24" × 25.39" × 10.14") Explosion-proof Control Box: 464 × 447 × 388 mm (18.27" × 17.6" × 15.28") Pneumatic Device: 1100 × 330 × 260 mm (43.31" × 12.99" × 10.24")
Package Dimension	Explosion-proof Furnace Camera: 1265 × 313 × 282 mm (49.8" × 12.32" × 11.1") Explosion-proof Pneumatic Box: 876 × 836 × 498 mm (34.49" × 32.91" × 19.61") Explosion-proof Control Box: 636 × 636 × 388 mm (25.04" × 25.04" × 15.28") Pneumatic Device: 1566 × 356 × 458 mm (61.65" × 14.02" × 18.03")
Weight	Explosion-proof Furnace Camera: 17.7 kg (39.02 lb.) Explosion-proof Pneumatic Box: 24.81 kg (54.7 lb.) Explosion-proof Control Box: 36.37 kg (80.18 lb.) Pneumatic Device: 32.775 kg (72.26 lb.)
With Package Weight	Explosion-proof Furnace Camera: 21.2 kg (46.74 lb.) Explosion-proof Pneumatic Box: 36.4 kg (80.25 lb.) Explosion-proof Control Box: 45.5 kg (100.31 lb.) Pneumatic Device: 48.925 kg (107.86 lb.)
Material	Explosion-proof Furnace Camera: SUS304 Explosion-proof Control Box: SUS304 Explosion-proof Pneumatic Box: Cold Rolled Steel Plate Pneumatic Device: Q235A
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Heartbeat, mirror, password reset via email, pixel counter, password protection, one-key reset, anti-banding
Approval	
Protection	Explosion-proof Furnace Camera: IP66/68(2m/2h), Explosion-proof Control Box: IP68, Explosion-proof Pneumatic Box: IP65, Pneumatic Device: IP65
Safety	EN 55032:2015+A11:2020+A1:2020; EN 55035:2017+A11:2020; EN 61000-3-3:2013+A1:2019+A2:2021; EN IEC 61000-3-2:2019+A1:2021+A2:2024
Explosion-Proof Protection	Explosion-proof Furnace Camera: ATEX: Ex II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68 IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68 Explosion-proof Control Box: ATEX: Ex II 2 G D Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68 IECEx: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db IP68

▪ Available Model

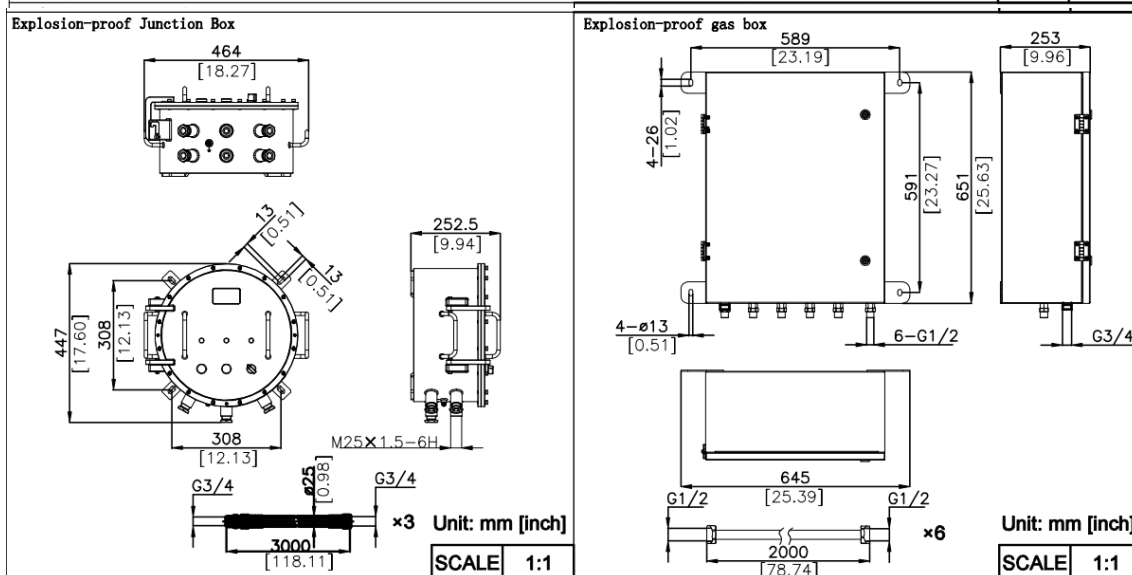
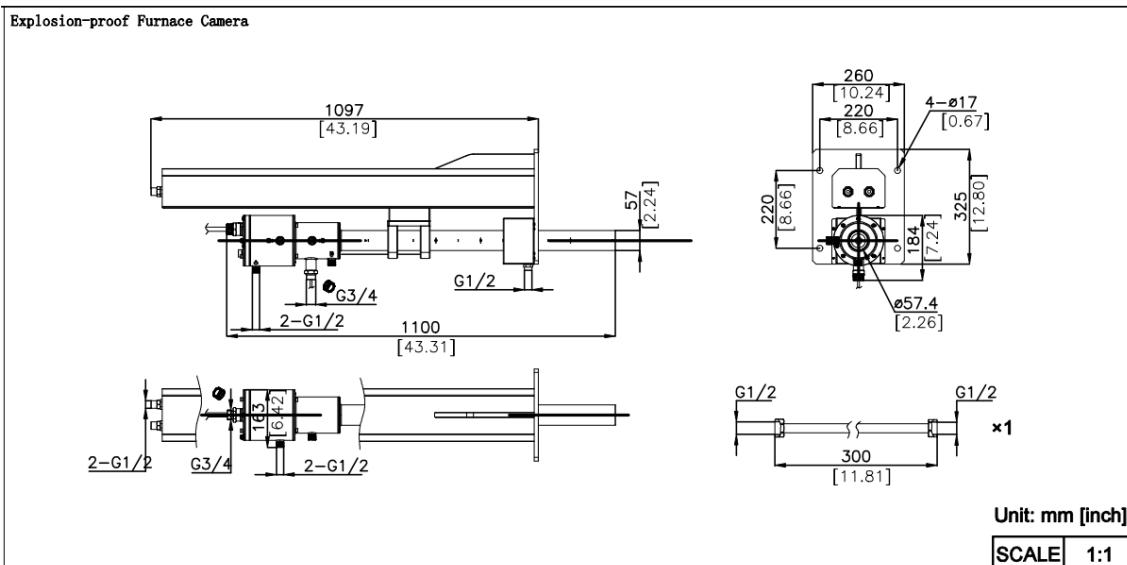
DS-2XE8047FWD-LTH/YF

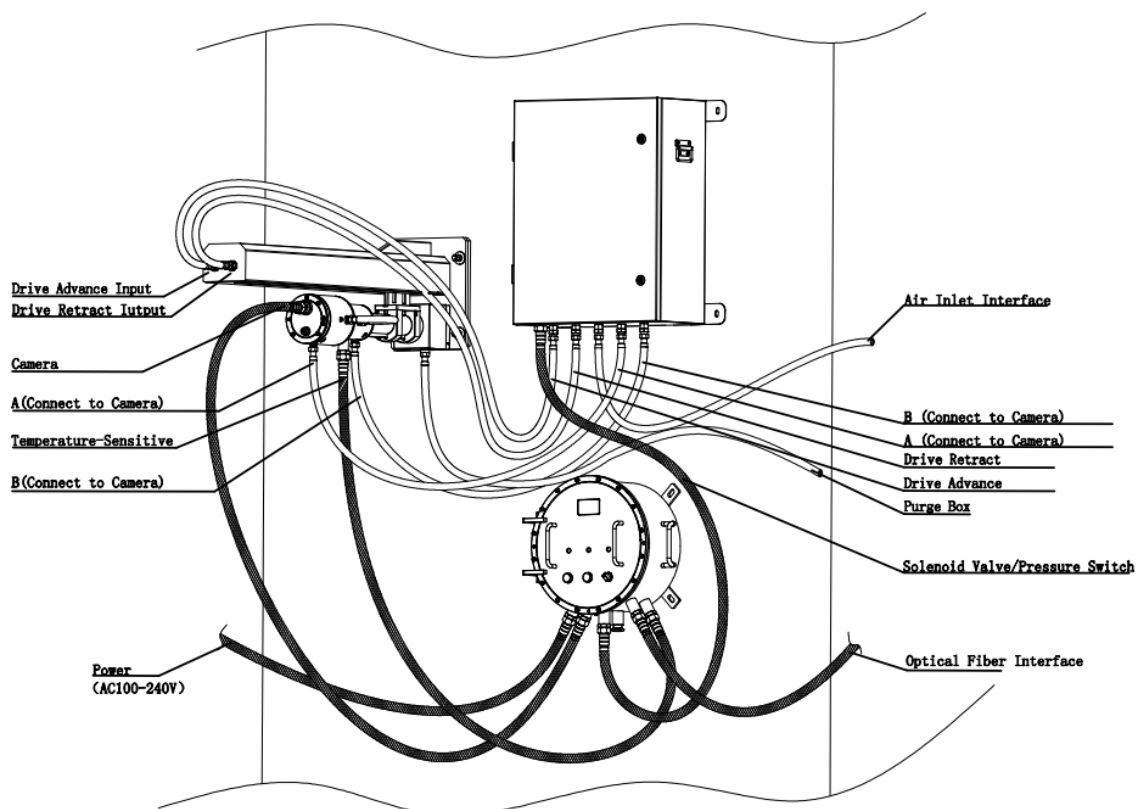
DS-2XE8047FWD-LTH

DS-2XE8047FWD-LTH(60°)

DS-2XE8047FWD-LTH/YF(60°)

Dimension





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