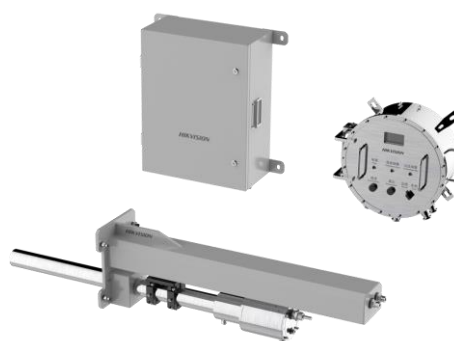


DS-2XE8525FWD-LTH**Furnace camera kit with temperature measurement**

Applied for remote internal observation in various types of industrial kilns, suitable for production environments such as steel, glass, cement, and power generation. It provides reliable data for operators to monitor the calcination status, flame shape, and material accumulation and changes in real-time.

- Features a built-in algorithm with > 99% accuracy to intelligently detect flameouts and count active burners, with real-time OSD status displays for both
- Provides OSD displays for air pressure and device positioning (advance/retract), alongside web-based remote control for device operation
- Utilizes a dual-layer forced vortex air cooling system to ensure stable, long-term operation in furnaces up to 2000 °C (3632 °F)
- Offers dual measurement ranges (0 to 800 °C / 300 to 2000 °C) with point, line, and frame analysis, highlighting peak temperature via a crosshair cursor
- Features automatic over-temperature and under-pressure interlock protection, with an air damper that closes upon camera retraction to prevent furnace gas leakage
- Linear rail design for smoother movement and a floating design for reliable high-temperature performance
- Supports multi-stage air purification to effectively remove oil and water from cooling air, preventing lens contamination throughout the maintenance cycle

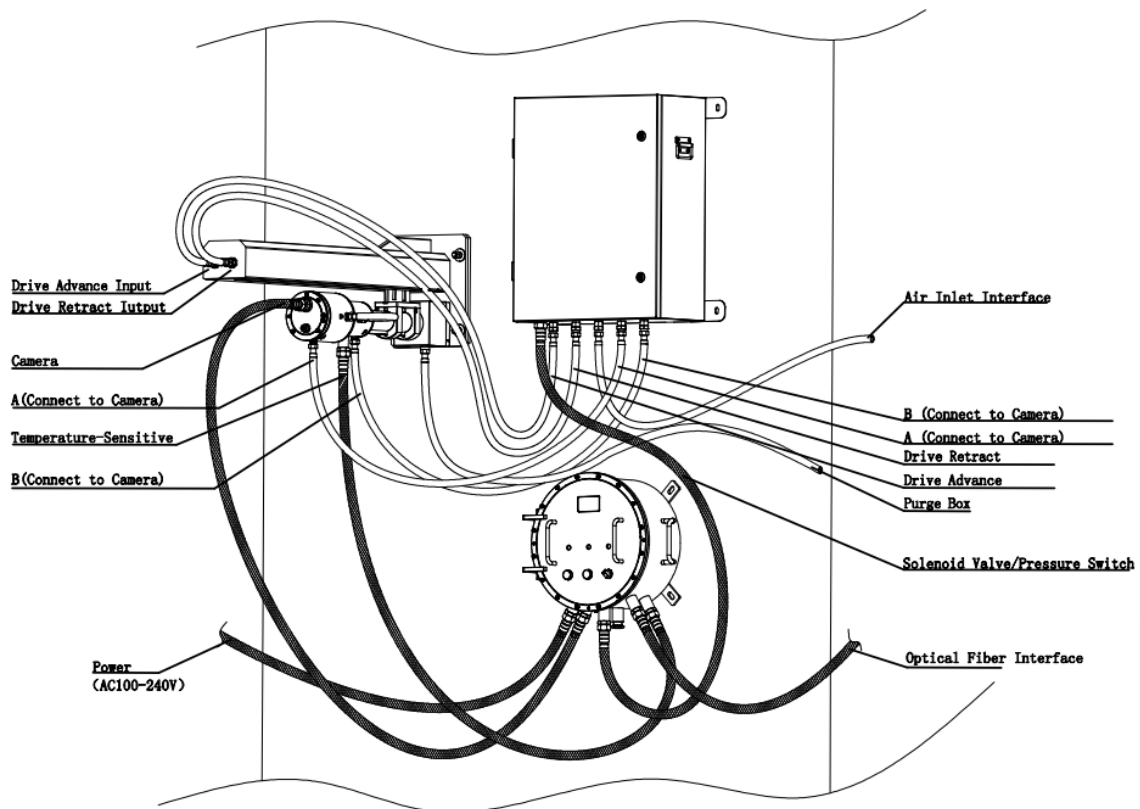
▪ Specification

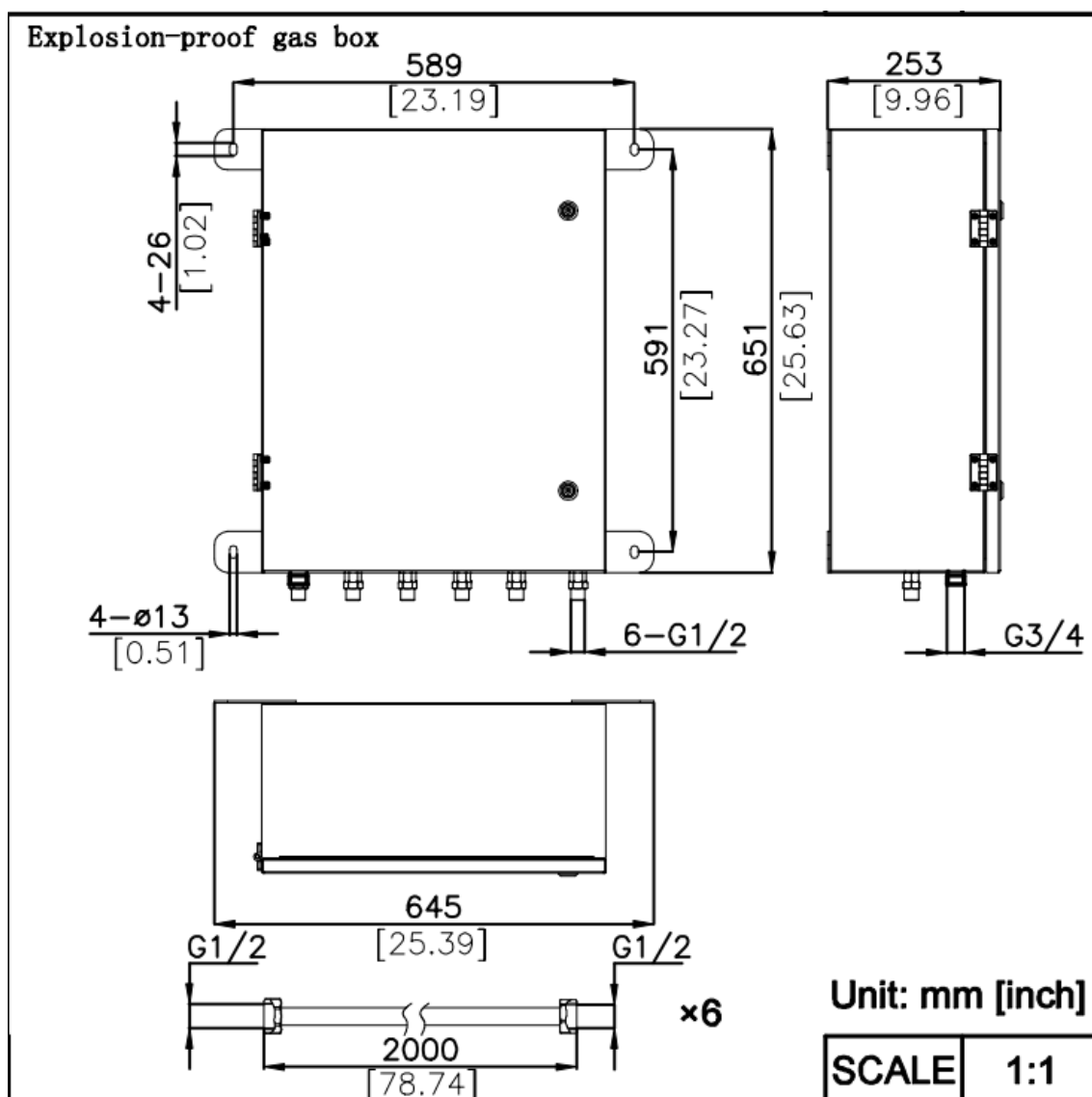
Thermal	
Pixel Pitch	12 μm
Spectral Range	8 to 14 μm
NETD	< 35 mk(@25 °C,F#=1.0)
MRAD	3
Temperature Measurement Range	0 °C to 800 °C (32 °F to 1472 °F) or 300 °C to 2000 °C (572 °F to 3632 °F)
Temperature Measurement Accuracy	±2 °C or ±2% of the reading (within the measurement range), take the maximum value
Max. Temperature Measurement Distance (for a 0.1 × 0.1 m object)	6.5 m
Camera	
Max. Resolution	1280 × 720
Lens	
Focal Length & FOV	4 mm, horizontal FOV 100°, vertical FOV 80.3°, diagonal FOV 129°
Aperture	F2.5
Video	
Main Stream	50 Hz: 50 fps (1280 × 720, 704 × 576, 640 × 512) 60 Hz: 60 fps (1280 × 720, 704 × 576, 640 × 512)
Video Compression	Main stream: H.265/H.264
Video Bit Rate	32 Kbps to 12 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream
Network	
Simultaneous Live View	Up to 20 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-Connect
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	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
SNR	≥ 50 dB

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)
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	
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 70 °C (158 °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.
Weight	Furnace Camera: 21.075 kg (46.46 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.)
Power Supply	100 to 240 VAC, 0.34 A, 30 W
Dimension	Furnace Camera: 1430 × 300 × 260 mm (56.3" × 11.81" × 10.24") 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	Furnace Camera: 1445 × 313 × 282 mm (56.89" × 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")
With Package Weight	Furnace Camera: 25.075 kg (55.28 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.)

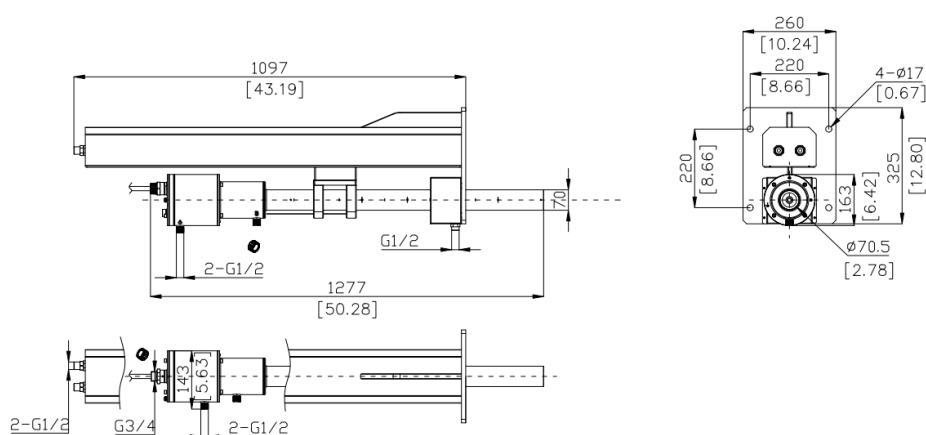
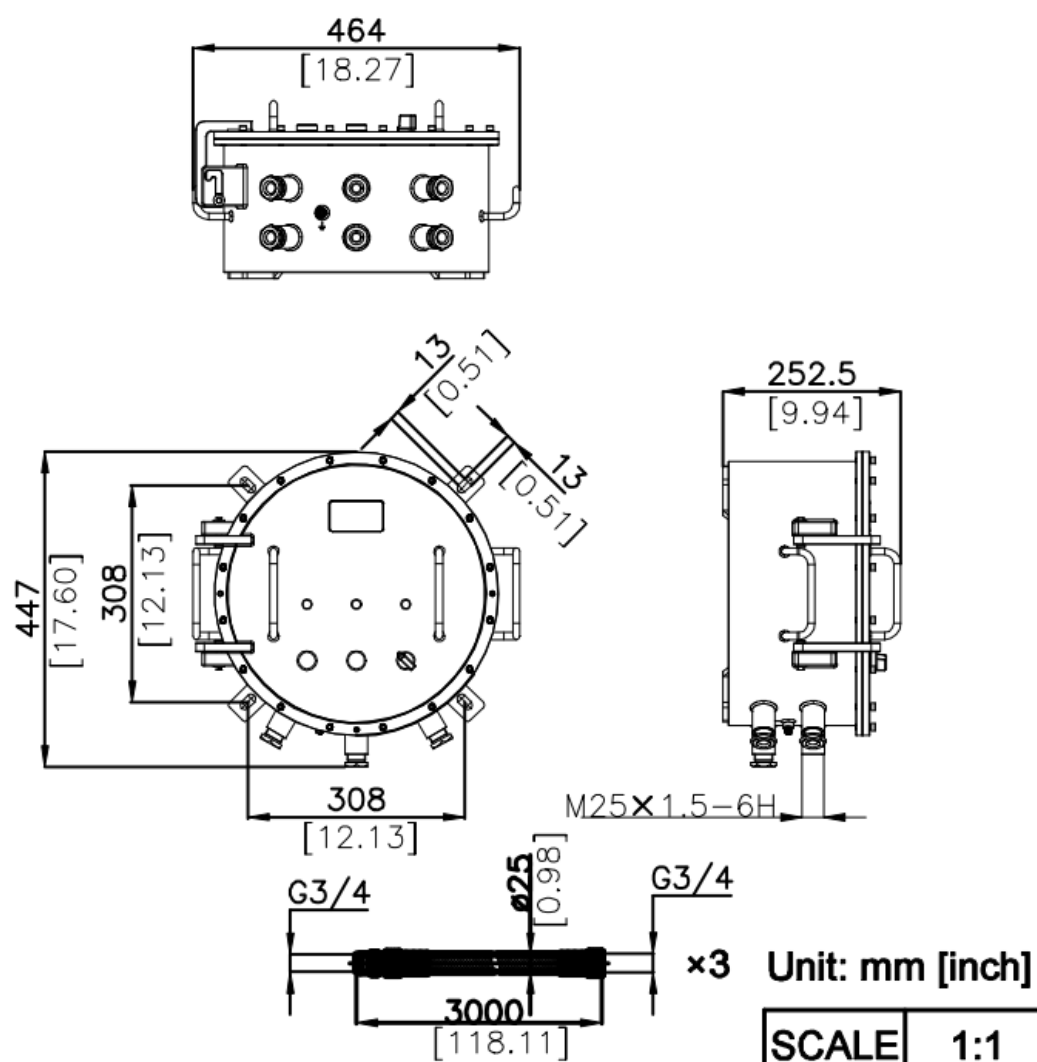
Material	Furnace Camera: Stainless Steel Explosion-proof Control Box: Stainless Steel Explosion-proof Pneumatic Box: Cold Rolled Steel Plate Pneumatic Device: Q235A
General Function	Heartbeat,mirror,password reset via email,pixel counter,password protection,one-key reset,anti-banding
Approval	
Safety	CE-EMC: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
Protection	Furnace Camera: IP66/68(2m/2h), Explosion-proof Control Box: IP68, Explosion-proof Pneumatic Box: IP65 ,
Explosion-Proof Protection	Explosion-proof Control Box: ATEX: Ex II 2 G D Ex db [ib Gb] IIC T6 Gb/Ex tb [ib Db] IIIC T80°C Db IECEx: Ex db [ib Gb] IIC T6 Gb/Ex tb [ib Db] IIIC T80°C Db

▪ Dimension



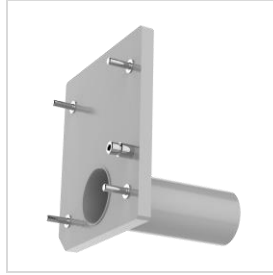


Explosion-proof Junction Box



- Accessory
- Optional

DS-4202ZJ-428CC



See Far, Go Further



www.hikvision.com
support@hikvision.com

