

Spectrum D101-X-P3827-BD

Explosion-Proof Panoramic Camera

EXPLSION
 PROOF CAMERA

Key Features

- 180° horizontal, 90° vertical coverage
- 7MP Multi-sensor Camera with 1 IP address
- Axis Forensic WDR, Lightfinder & Zipstream
- Axis Object Analytics
- Axis Edge Vault Cybersecurity
- Seamlessly stitched realistic images
- Horizon Straightening
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO and PESO approved
- Operating Temperature: -20°C to +55°C (-4°F to +131°F)

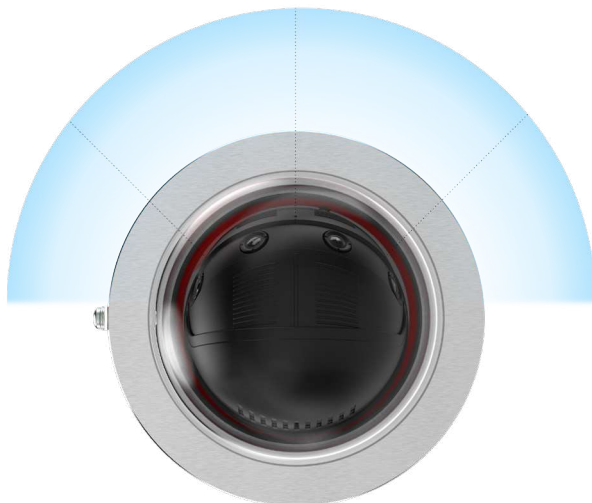


Axis Camera Inside



Description

Spectrum D101-X-P3827-BD explosion-proof network camera is a panoramic dome camera with multiple sensors, providing an easy, reliable and cost-efficient single-camera installation, reducing down-time, cabling and VMS license costs. Enclosed in a patented stainless-steel or red aluminum explosion-proof housing, it's certified (cFMus, IECEx, ATEX INMETRO and PESO approved) for use in potentially combustible environments. Thanks to its outstanding multi-sensors, combined with Axis Forensic WDR and Lightfinder technology, the D101-P3827-BD provides great clear video quality in any lighting conditions. Its four sensors provide a seamless 180° panoramic image, at up to 30 fps in 7 MP resolution. Additionally you can mount two D101-X-P3827-BD cameras back-to-back using SD-UM-SS Universal Mount and achieve complete 360° situational awareness.



Specifications

Spectrum D101-X-P3827-BD

Camera		System integration	
Image sensor	4 x 1/2.8" progressive scan RGB CMOS Pixel size 2.9 µm	Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP) One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T
Lens	Fixed 3.3 mm, F2.0 Horizontal field of view: 180° Vertical field of view: 90°	Video management systems	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development
Day and night	Automatic IR-cut filter Hybrid IR filter	Onscreen controls	Privacy masks Media clip
Minimum illumination	Color: 0.15 lux at 50 IRE, F2.0 B/W: 0.05 lux at 50 IRE, F2.0	Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active, casing open Digital audio input status Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, live stream, tampering
Shutter speed	1/31500 s to 1.5 s	Event actions	Audio clips: play, stop Day-night mode I/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
Camera angle adjustment	Pan ±180° Tilt 0° to 50° Roll ±5°	Built-in installation aids	Pixel counter, level grid
System on chip (SoC)		Analytics	
Model	ARTPEC-8	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, crossline counting Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Memory	2048 MB RAM, 8192 MB Flash	Metadata	Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Attributes: Vehicle color, upper/lower clothing color, confidence, position Event data: Producer reference, scenarios, trigger conditions
Compute capabilities	Deep learning processing unit (DLPU)	Cybersecurity	
Video		Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Resolution	3712x1856 to 640x320	General	
Frame rate	Up to 25/30 fps (50/60 Hz) in all resolutions	Casing (X)	A = Aluminum S = Stainless Steel
Video streaming	Up to 20 unique and configurable video streams Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator	Weight	A = 25.6 lbs (11,612 g) S = 52.7 lbs (23,905 g)
Signal-to-noise ratio	>55 dB	Dimensions	Height: 11.5 in (292 mm) ø 8.6 in (218 mm)
WDR	Forensic WDR: Up to 120 dB depending on scene	Power	IEEE802.3at 18W Max
Multi-view streaming	Up to 8 individually cropped out view areas	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)	Operating conditions	-20 °C to 55 °C (-4 °F to +131 °F)
Image settings	Horizon straightening, saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure mode, compression, dynamic text and image overlay, polygon privacy masks	Warranty	5-year warranty, see https://www.spectrumcamera.com/warranty
Image processing	Axis Zipstream, Forensic WDR, Lightfinder		
Pan/Tilt/Zoom	Digital PTZ		
Audio			
Audio features	AGC automatic gain control Network speaker pairing		
Audio streaming	Configurable duplex: One-way (simplex, half duplex) Two-way (half duplex, full duplex)		
Audio input	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input		
Audio output	Output via network speaker pairing		
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate		
Network			
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), MIL-STD-810H (Method 501.7, 502.7, 505.7, 506.6, 507.6, 509.7, 512.6)		
Network	NIST SP500-267		

Specifications (Cont....)

Spectrum D101-X-P3827-BD

Approvals	<p>Hazardous Area FM3600, FM3615, ANSI/ISA/EN/IEC/CAN/CSA-C22.2 60079-0, ANSI/UL/EN/IEC/CAN/CSA-C22.2 60079-1, ANSI/UL/EN/IEC/CAN/CSA-C22.2 60079-31</p> <p>EMC EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35</p> <p>Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252</p> <p>Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)</p> <p>Network NIST SP500-267</p>
Explosion-Proof Certifications	<p>USA (Divisions): Class I Division 1 Groups B,C,D T6, type 4X, IP66/67 Class II/III, Division 1, Groups E,F,G T6 Ta = -20°C to +55°C Certificate: FM17US0156X</p> <p>USA and Canada (Zones): Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta -20°C to +55°C, Type 4X, IP66/67 Zone 21, AEx/Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, Type 4X, IP66/67 Certificate: FM17US0156X and FM18CA0103X</p> <p>ATEX: II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 II 2 D Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FM18ATEX0057X</p> <p>IECEx: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FMG 18.0020X</p> <p>INMETRO: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Ex tb IIIC Db T85 °C Ta = -20°C to +55°C, IP66/67 Certificate number: NCC 20.0083 X</p> <p>PESO: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FMG 18.0020X Approval No: A/P/HQ/MH/104/7899 (P578984)</p>
Languages (Camera)	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portugese, Traditional Chinese

Approvals & Dimensions



8935 ALMEDA GENOA RD.
HOUSTON, TEXAS 77075
USA

CERT NO. FM17US0156X

INPUT: IEEE 802.3at 18W MAX

MODEL NUMBER: D101-A-P3827-PVE-BD SERIAL:

Class I Division 1 Groups B,C,D T6, Type 4X, IP66

Class II/III, Division 1, Groups E,F,G T6

-WARNINGS: Ta = -20°C to +55°C

-NOT INCLUDING KETONE OR ESTER ATMOSPHERES

-CONDUIT ENTRIES ARE M20 X 1.5

-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

-INSTALL SEAL AT ENCLOSURE ENTRY

US Patent 9917428

US Patent D858611



MADE IN USA
CERT NO.
FM17US0156X
FM18CA0103X



SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

MODEL: D101-A-P3827-PVE-BD SERIAL:

INPUT: IEEE 802.3at 18W MAX

Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, Type 4X, IP66

Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -20°C to +55°C, Type 4X, IP66

II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66

II 2 D Ex tb IIIC T85°C Db Ta = -20°C to +55°C, IP66



CERT NO. FM18ATEX0057X, IECEx FMG 18.0020X, FM22UKEX0028X

WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

INSTALL SEAL AT ENCLOSURE ENTRY US Patent 9917428

www.spectrumcamera.com US Patent D858611



FABRICADO NO EUA

CERT NO. NCC 20.0083 X

MODELO: D101-A-P3827-PVE-BD

ALIMENTAÇÃO: IEEE 802.3at 18W

SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA
No. SERIE: TIME-DY-MN-YEAR



NCC 20.0083 X

Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C

Ex tb IIIC T85°C Db Ta = -20°C to +55°C

IP66



ATENÇÃO:

- ENTRADAS DE CABOS M20 X 1.5

- NÃO ABRA ENQUANTO UMA ATMOSFERA EXPLOSIVA PUDE ESTAR PRESENTE

- INSTALAR ANEL DE VEDAÇÃO NAS ENTRADAS

- NÃO ABRIR QUANDO ENERGIZADO

- RISCO POTENCIAL DE CARGA ELETROSTÁTICA - VER INSTRUÇÕES

-Patente EUA 9917428

-Patente EUA D858611

