

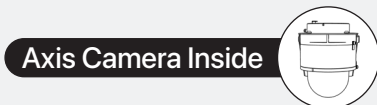
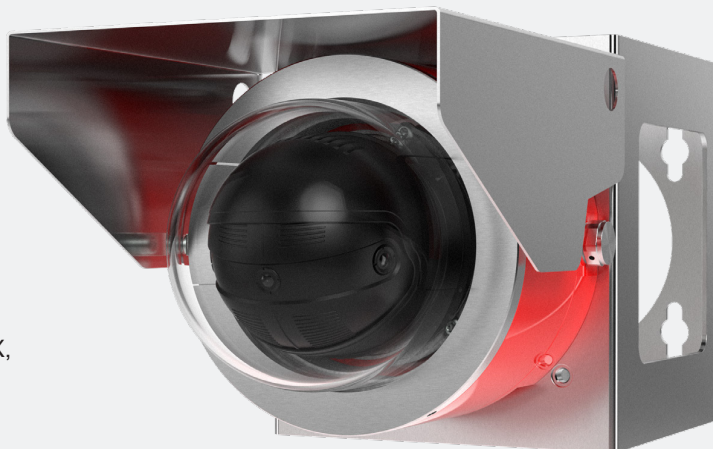
Spectrum D101-X-P3818-BD

Explosion-Proof Panoramic Camera

EXPLSION
PROOF CAMERA

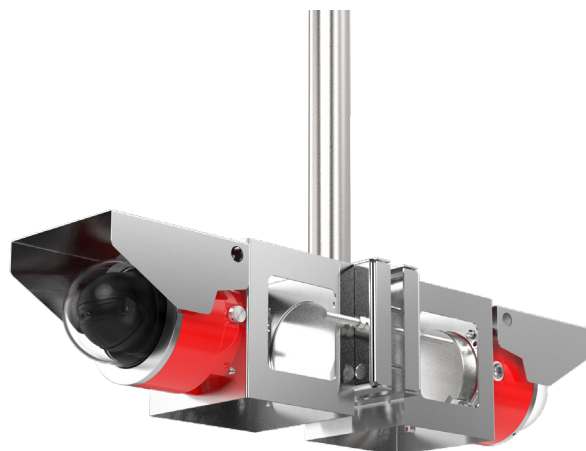
Key Features

- 13 MP multisensor with seamless stitching
- 180° horizontal, 90° Vertical
- Seamless pan/tilt/roll
- Axis Edge Vault
- Built-in cybersecurity features
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, UKCA and PESO approved.
- Operating Temperature: -20°C to +50°C (-4°F to 122°F)



Description

Spectrum D101-X-P3818-BD delivers a 180° horizontal and 90° vertical panoramic overview of extensive areas with ultra-high resolution images and incredible detail at up to 30 fps. Enclosed in a patented stainless-steel or red aluminum explosion-proof housing, it's certified (cFMus, IECEx, ATEX, INMETRO, UKCA and PESO approved) for use in potentially combustible environments. The camera provides a seamless image across all 3 sensors and 13 MP resolution. Also, the camera has cybersecurity features to prevent unauthorized access and safeguard your system. Additionally you can mount two D101-X-P3818-BD cameras back-to-back and achieve a complete 360° overview.



Specifications


Spectrum D101-X-P3818-BD

Camera		System integration	
Image sensor	3 x 5 MP 1/2.8" progressive scan RGB CMOS	Application programming interface	Open API for software integration ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at onvif.org
Lens	Fixed 3.2 mm, F2.0 Horizontal field of view: 180° Vertical field of view: 90°	Event conditions	Analytics, external input, supervised external input, edge storage events, virtual inputs through API Audio: audio detection Digital audio: digital signal contains Axis metadata, digital signal as invalid sample rate, digital signal missing, digital signal ok Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature, casing open, ring power overcurrent protection Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: live stream open, average bitrate degradation, day-night mode, tampering
Day and night	Automatically removable infrared-cut filter	Event actions	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap, play audio clipm I/O events, status LED events File upload: FTP, SFTP, HTTP, HTTPS network share, email MQTT publish Notification: email, HTTP, HTTPS TCP
Minimum illumination	With Forensic WDR and Lightfinder: Color: 0.16 lux, F2.0 B/W: 0.05 lux, F2.0	Data streaming	Event data
Shutter speed	1/91000 to 1/25 s With WDR: 1/50000 to 1/25 s	Built-in installation aids	Pixel counter, leveling guide
Camera angle adjustment	Pan +/- 180° Tilt 0° to 50° Roll +/- 5°	Analytics	
Sensor	AXIS P3818-PVE	Applications	Included AXIS Fence Guard, AXIS Motion Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm, audio detection Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
System on chip (SoC)		General	
Model	ARTPEC-7 (x2)	Casing (x)	A = Aluminum S = Stainless Steel
Memory	2048 MB RAM (x2), 512 MB Flash	Weight	A = 19 lbs (8.61 kg) S = 27 lbs (8.6 kg)
Compute Capabilities	Machine learning processing unit (MLPU)	Dimensions	Height: 11.5 in (292 mm) ø 8.6 in (218 mm)
Video		Power	44-57 Vdc 18W MAX
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	Storage Conditions	-40°C to 65°C (-40°F to 149°F) Humidity 5-95% RH (non-condensing)
Resolution	5120x2560 (13.1 MP) to 608x128	Operating Conditions	-20°C to +50°C (-4°F to 122°F)
Frame rate	13.1 MP @ 25/30 fps (50/60 Hz) WDR	Warranty	5-year limited warranty, see www.spectrumcamera.com/warranty
Video streaming	13.1 MP: 1 configurable stream in H.264, H.265 and Motion JPEG in full frame rate Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265		
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, compression, dynamic text and image overlay, orientation aid, exposure control, noise reduction, fine tuning of behavior at low light, polygon privacy masks		
Audio			
Audio streaming	Two-way audio via edge-to-edge technology		
Audio input/output	External microphone input, line input, digital audio input, automatic gain control, 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, 44.1 kHz ACC-LC, LPCM Configurable bit rate		
Network			
Security	Password protection, IP address filtering, HTTPSa encryption, IEEE 802.1X (EAP-TLS)a network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)		
Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPSa, TLSa, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT, Syslog, Link-Local address (ZeroConf)		


Specifications (continued)

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/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 +50°C Certificate: FM17US0156X</p> <p>USA and Canada (Zones): Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta -20°C to +50°C, Type 4X, IP66/67 Zone 21, AEx/Ex tb IIIC T85 °C Db Ta = -20°C to +50° 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 +50°C, IP66/67 II 2 D Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, IP66/67 Certificate: FM18ATEX0057X</p> <p>IECEx: Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, IP66/67 Certificate: FMG 18.0020X</p> <p>INMETRO: Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 Ex tb IIIC Db T85 °C Ta = -20°C to +50°C, IP66/67 Certificate number: NCC 20.0083 X</p> <p>PESO: Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, IP66/67 Certificate: FMG 18.0020X Approval No: A/P/HQ/MH/104/7899 (P578984)</p>
Languages (Camera)	<p>English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portugese, Traditional Chinese</p>

Approvals & Dimensions



FM
APPROVED



SPECTRUM
CAMERA SOLUTIONS


SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

8935 ALMEDA GENOA RD.
HOUSTON, TEXAS 77075
USA

CERT NO. FM17US0156X
 INPUT: 44-57 Vdc 18W MAX
 MODEL NUMBER: D101-A-P3818-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 +50°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



SPECTRUM
CAMERA SOLUTIONS


SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA



FM
APPROVED

MADE IN USA
CERT NO.
FM17US0156X
FM18CA0103X



CE
UK
CA


MODEL: D101-A-P3818-PVE-BD SERIAL:
 INPUT: 44-57 Vdc 18W MAX
 Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, Type 4X, IP66
 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -20°C to +50°C, Type 4X, IP66

II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66
 II 2 D Ex tb IIIC T85°C Db Ta = -20°C to +50°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
 US Patent D858611
www.spectrumcamera.com



SPECTRUM
CAMERA SOLUTIONS


SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

No. **SERIE: TIME-DY-MN-YEAR**

FABRICADO NO EUA
CERT NO. NCC 20.0083 X
MODELO: D101-X-P3818-BD
ALIMENTAÇÃO: 57Vdc 18W


Segurança



NCC 20.0083 X

Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66
Ex tb IIIC T85°C Db Ta = -20°C to +50°C, IP66

NCC 20.0083 X
 Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C
 Ex tb IIIC T85°C Db Ta = -20°C to +50°C
 IP66



- Patente EUA 9917428
 - Patente EUA D858611

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

