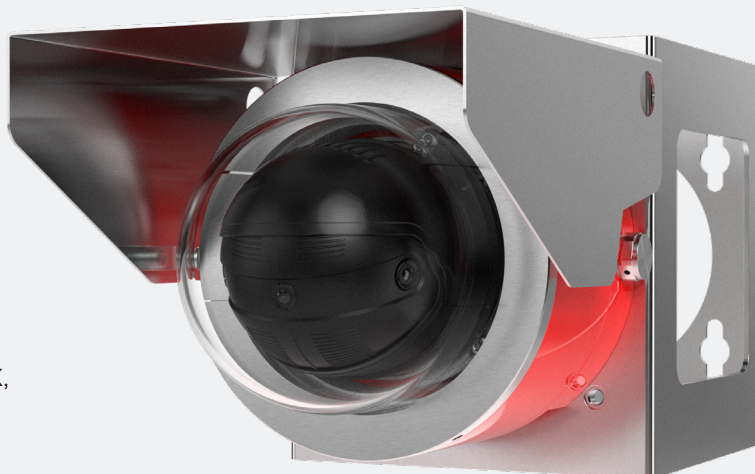


Spectrum D101-X-P3818-BD

Explosion-Proof Panoramic 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



Axis Camera Inside



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

Image sensor	3 x 5 MP 1/2.8" progressive scan RGB CMOS
Lens	Fixed 3.2 mm, F2.0 Horizontal field of view: 180° Vertical field of view: 90°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	With Forensic WDR and Lightfinder: Color: 0.16 lux, F2.0 B/W: 0.05 lux, F2.0
Shutter speed	1/91000 to 1/25 s With WDR: 1/50000 to 1/25 s
Camera angle adjustment	Pan +/- 180° Tilt 0° to 50° Roll +/- 5°
Sensor	AXIS P3818-PVE

System on chip (SoC)

Model	ARTPEC-7 (x2)
Memory	2048 MB RAM (x2), 512 MB Flash
Compute Capabilities	Machine learning processing unit (MLPU)

Video

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
Resolution	5120x2560 (13.1 MP) to 608x128
Frame rate	13.1 MP @ 25/30 fps (50/60 Hz) WDR
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)

System integration

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
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
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
Data streaming	Event data
Built-in installation aids	Pixel counter, leveling guide
Analytics	
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
General	
Casing (x)	A = Aluminum S = Stainless Steel
Weight	A = 19 lbs (8.61 kg) S = 27 lbs (8.6 kg)
Dimensions	Height: 11.5 in (292 mm) ø 8.6 in (218 mm)
Power	44-57 Vdc 18W MAX
Storage Conditions	-40°C to 65°C (-40°F to 149°F) Humidity 5-95% RH (non-condensing)
Operating Conditions	-20°C to +50°C
Warranty	5-year limited warranty, see www.spectrumcamera.com/warranty

Specifications (continued)

Approvals	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 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 Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252 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) Network NIST SP500-267
Explosion-Proof Certifications	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 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 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 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 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 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)
Languages (Camera)	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

Approvals & Dimensions



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



SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA



MADE IN USA
CERT NO.
FM17US0156X
FM18CA0103X



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



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



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

NCC 20.0083 X

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



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

