

Spectrum F101-M1137-MKII-BD

Explosion-Proof 5MP Fixed Camera

Key Features

- 5MP Image Quality
- Axis Lightfinder and Forensic WDR
- PoE with Redundant DC Power
- Electronic Image Stabilization
- Audio Input capability
- Front Glass Protective Film (F1XX-TO) included
- Reliable Security Kit (SF-RSK) included
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, UKCA and PESO approved
- Operating Temperature:
 Zone System: -50°C to +50°C (-58°F to +122°F)
 (USA) Class/Division System: -40°C to +50°C (-40°F to +122°F)

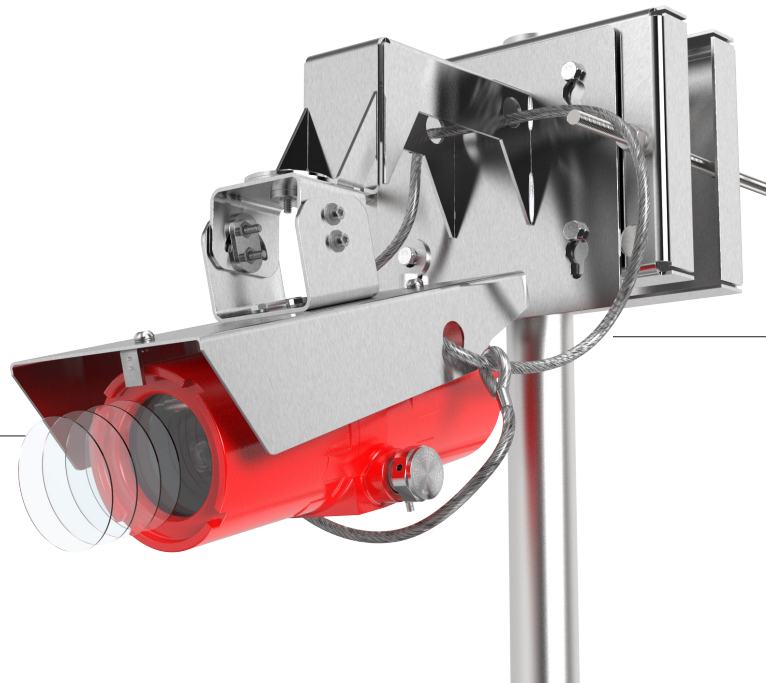


Axis Camera Inside



Description

Spectrum F101-M1137-MKII-BD explosion-proof network camera delivers excellent 5MP resolution. Enclosed in a red aluminum explosion-proof housing, it's certified (cFMus, IECEx, ATEX, INMETRO, UKCA and PESO) for use in potentially combustible environments. The camera features Axis Lightfinder and Forensic WDR, it delivers rich colors and sharp details in challenging light or dark areas. It also offers DC-Iris for images with better contrast, clarity, resolution and depth of field and audio input allowing video recording with sound. Furthermore, electronic image stabilization and enhanced security features are included.



F1XX-TO

Front Glass Protective Film
 4-Layer peel off design

SF-RSK

Reliable Securing Kit

Specifications

Spectrum F101-M1377-MKII-BD

Camera		Network	
Image sensor	1/2.7" progressive scan RGB CMOS	Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, 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/RTSPS, 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)
Lens	Varifocal, IR corrected, CS-mount, DC-Iris 2.8–13 mm, 5MP: Horizontal field of view: 112°–24° 5MP: Vertical field of view: 82°–19° Minimum focus distance: 0.8 m (2.6 ft)		
Day and night	Automatically removable infrared-cut filter		
Minimum illumination	HDTV 5MP 25/30 fps with Forensic WDR and Lightfinder: Color: 0.17 lux, at 50 IRE F1.4 B/W: 0.03 lux, at 50 IRE F1.4 Color: 0.12 lux, at 30 IRE, F1.4 B/W: 0.02 lux, at 30 IRE, F1.4		
Shutter speed	WDR: 1/33500 s to 1/5 s		
System on chip (SoC)		System integration	
Model	ARTPEC-7	Application programming interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T
Memory	1024 MB RAM, 512 MB Flash		
Compute capabilities	Machine learning processing unit (MLPU)		
Video		Event conditions	Audio: audio detection Device status: IP address removed, network lost, new IP address, storage failure, system ready, (with i-CS: within operating temperature, above operating temperature, above or below operating temperature, below operating temperature) Edge storage: recording ongoing, storage disruption I/O: digital input, manual trigger, virtual input MQTT subscribe Scheduled and recurring: scheduled event Video: day/night mode, live stream open, tampering
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	5MP: 2592x1944 to 160x120	Event actions	File upload via FTP, HTTP HTTPS, SFTP, network share and email MQTT publish Notification via email, HTTP, HTTPS, TCP Video recording to edge storage, pre- and post-alarm video buffering, PTZ preset, guard tour, send video clip, send SNMP trap, day/night vision mode, WDR mode, status LED indicator, output port
Frame rate	Up to 25/30 fps in all resolutions		
Video streaming	Multiple, individually configurable streams in H.264, H.265, and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode	Built-in installation aids	Pixel counter
Image settings	Axis Forensic WDR: Up to 120 dB depending on scene, manual shutter time, compression, color, brightness, sharpness, contrast, whiet balance, exposure control (including automatic gain control), exposure zones, fine tuning of behavior at low light, aspect ratio correction, text and image overlay, privacy mask, mirroring of images.	Analytics	
Pan/Tilt/Zoom	Digital PTZ	Axis Object Analytics	Object classes: humans, vehicles Scenarios: line crossing, object in area, occupancy in area Up to 10 scenarios Other features: triggered objects visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Audio		Applications	Included AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS Live Privacy Shield, active tampering alarm Supported Support for AXIS Camera Application Platform enabling installation of third-party applications
Audio streaming	Audio in, simplex, two-way audio via edge-to-edge technology	Cybersecurity	
Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Audio input/output	External microphone input or line input, network speaker pairing		

Specifications (continued)

General	
Casing	Aluminum
Weight	6.4 kg (14 lb)
Dimensions	13.85 x 7.20 x 6.01 in (352 x 183 x 153 mm)
Power	Camera: Power over Ethernet (PoE) 57 VDC IEEE 802.3af/802.3at Type 1 Class 3, max 10.7W, typical 5.4W Heater: 12-24 VAC/VDC 25W
Storage Conditions	-40°C to 65°C (-40°F to 149°F) Humidity 5-95% RH (non-condensing)
Operating Conditions	Zone system: -50°C to +50°C (-58°F to +122°F) (USA) Class/Division system: -40°C to +50°C (-40°F to +122°F) Humidity 10-100% RH (condensing)
Warranty	5-year limited warranty, see spectrumcamera.com/warranty

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/EN/IEC/CAN/CSA-C22.2 60079-31 EMC EN 60032 Class A, EN 50121-4, IEC 62236-4, EN 60024, 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
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Explosion-proof Certifications

USA:
Class I Division 1 Groups BCD T6 Ta= -40°C to +50°C, Type 4X, IP66
Class II/III Division 1 Groups EFG Ta= -40°C to +50°C, Type 4X, IP66
Certificate: FM18US0262X
Canada:
Class I Division 1 Groups BCD T6 Ta= -50°C to +50°C, Type 4X, IP66
Class II/III Division 1 Groups EFG Ta= -50°C to +50°C, Type 4X, IP66
Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, Type 4X, IP66
Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +50°C, Type 4X, IP66
Certificate: FM18CA0126X
ATEX:
II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66
Certificate: FM18ATEX0073X
IECEx:
Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66
Certificate: IECEx FMG 18.0029X
INMETRO:
Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66
Certificate: NCC 20.0084 X
PESO:
Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66
Certificate: IECEx FMG 18.0029X
Approval No: A/P/HQ/MH/104/7899 (P578984)

Video Management Software AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms

Languages (Camera) English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Polish

Approvals & Dimensions



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

SERIAL:

UK
CA
1725



MADE IN USA



CERT NO. FM18US0262X & FM18CA0126X
MODEL: F101-M1137-MKII-BD
INPUT: IEEE 802.3af/802.3at Type 1 Class 3, 7.2W MAX;
HEATER: 12-24VDC/VAC, 25 W

US: Class I Division 1 Groups BCD T6 Ta= -40°C to +50°C, Type 4X, IP66
Class II/III Division 1 Groups EFG T6 Ta= -40°C to +50°C, Type 4X, IP66
Canada: Class I Division 1 Groups BCD T6 Ta= -50°C to +50°C, Type 4X, IP66
Class II/III Division 1 Groups EFG T6 Ta= -50°C to +50°C, Type 4X, IP66
Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, Type 4X, IP66
Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +50°C, Type 4X, IP66
II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66
CERT NO. FM18ATEX0073X, IECEx FMG 18.0029X, & FM22UEx0016X

WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. Install seal within 18 inches. For Zone, install seal at entry. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTION. USE 80°C OR HIGHER RATED CONDUCTORS.
AVERTISSEMENT: NE PAS OUVRIR LORSQU'ENNERGIE OU QUAND UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE. Les joints de fermeture sont obligatoires dans une distance de 18 pouces. Pour les zones, installer un sceau à l'entrée. AVERTISSEMENT - RISQUE DE CHARGE ELECTROSTATIQUE POTENTIEL - VOIR LES INSTRUCTIONS. UTILISEZ DES CONDUCTEURS COTÉS DE 80 °C OU PLUS.



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



NCC 20.0084 X
Ex db IIB+H2 T5 Gb Ta = -50°C to +50°C, IP66
Ex tb IIIC T85°C Db Ta = -50°C to +50°C, IP66

ATENÇÃO: NÃO ABRA ENQUANTO ENERGIZADO OU QUANDO ATMOSFERA EXPLOSIVA PUDER ESTAR PRESENTES. INSTALAR O ANEL DE VEDIGAÇÃO DA ENTRADA. ATENÇÃO - RISCO POTENCIAL DE CARGAS ELETROSTÁTICAS - VER INSTRUÇÕES. USAR CONDUCTORES ADEQUADOS PARA TEMPERATURAS ATÉ 80°C. ATENÇÃO - NÃO ABRIR QUANDO ENERGIZADO. ATENÇÃO - RISCO POTENCIAL DE CARGA ELETROSTÁTICA - VER INSTRUÇÕES

