

Description

Spectrum F101-P1377-BD explosion-proof network camera delivers excellent 5MP resolution. Enclosed in a red aluminum explosion-proof housing, it's certified (cFMus, ATEX, IECEx, UKCA approved and INMETRO) for use in potentially combustible environments. The camera features Axis Lightfinder and Axis Forensic WDR, it delivers rich colors and sharp details in challenging light or dark areas. It also offers P-iris for images with better contrast, clarity, resolution and depth of field. Furthermore, electronic image stabilization and enhanced security features are included.



DOC. F101-P1377-BD 0822 RØ

Spectrum F101-P1377-BD

Camera	
Image sensor	1/2.7" progressive scan RGB CMOS
Lens	IR corrected, CS-mount lens, P-Iris Varifocal 2.8–8 mm, F1.2 Horizontal field of view: 111°–38° Vertical field of view: 81°–28°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	5 MP 25/30 fps with Forensic WDR and Lightfinder: Color: 0.13 lux, at 50 IRE F1.2 B/W: 0.03 lux, at 50 IRE F1.2
Shutter speed	WDR: 1/33500 s to 1/5 s No WDR: 1/50000 s to 1/5 s
Sensor	Axis F101-A XF P1377
System on chip (SoC)	
Model	ARTPEC-7
Memory	1 GB RAM, 512 MB Flash
Compute capabilites	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) Motion JPEG
Resolution	2592x1944 (5 MP) to 160x90 2688x1512 (4 MP) to 160x90 1280x720 (HDTV 720p) to 160x90
Frame rate	Capture mode 5 MP: 25/30 fps (50/60 Hz) Capture mode 4 MP: 25/30 fps (50/60 Hz) Capture mode HDTV 720p: 180 fps
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 Video streaming indicator
Multi-view streaming	Up to 8 individually cropped out view areas
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, local contrast tone mapping, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks, defogging, electronic image stabilization, barrel distortion correction, scene profiles: forensic, vivid, traffic overview
Pan/Tilt/Zoom	Digital PTZ Uploadable PTZ driver (Pelco D pre-installed)
Audio	
Audio streaming	Two-way, full duplex
Audio encoding	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz Configurable bit rate
Audio input/output	External microphone input, line input, digital input with ring power, line output, built-in microphone (can be disabled), automatic gain control
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, secure boot

Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSa, HTTP/2, TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS/ DNSv6, DDNS, NTP, RTSP, RTP, SRTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/ v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
System integration	
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, specification at onvif.org
Onscreen controls	Electronic image stabilization Day/night shift Defogging Wide dynamic range
Event triggers	Analytics, shock detection, edge storage events, supervised external input, audio level, time scheduled MQTT subscribe
Event actions	MQTT publish Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, play audio clip, WDR mode, day/night mode
Data streaming	Event data
Built-in installation aids	Focus assistant, pixel counter, remote back focus, autorotation
Analytics	
Axis Object Analytics	Object classes: humans, vehicles Trigger conditions: line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Applications	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm, audio detection Supported AXIS Live Privacy Shield Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner. Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

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 +60°C (USA) Class/Division system: -40°C to +60°C 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/IEN/EC/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
Explosion-proof Certifications	USA: Class I Division 1 Groups BCD T6 Ta= -40°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -40°C to +60°C, Type 4X, IP66 Certificate: FM18US0262X Canada: Class I Division 1 Groups BCD T6 Ta= -50°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -50°C to +60°C, Type 4X, IP66 Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +60°C, Type 4X, IP66 Certificate: FM18CA0126X ATEX: II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66 Certificate: FM18ATEX0073X IECEx: Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66 Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66
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

Upgraded i-CS lens option

Spectrum F101-P1377-BD-iCS

Explosion-proof 5MP fixed camera with upgraded i-CS lens

Key Features	IR-corrected lens F-number 1.2
	Focal length 2.8-8.5mm
	Supports sensors up to 1/2.7"



The Spectrum F101-P1377-BD-iCS lens upgrade features the most recent industry standard in intelligent CS-mount optics.

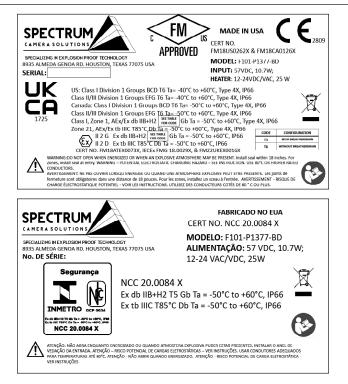
The i-CS lens includes three motors, which enable automatic and remote zoom, focus, and iris opening.

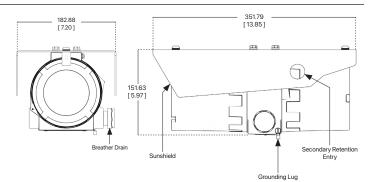
Lens Computar i-CS 2.8-8.5 mm offers great flexibility to your installation thanks to its open protocol and the ability for the camera to interface with multiple features.

The lens is IR-corrected.

This means that you don't need to adjust the camera's focus when you shift between day and night mode using the IR-cut filter.

Approvals & Dimensions





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