

## Spectrum F101-P1377-BD

Explosion-Proof 5MP fixed Camera

#### **Key Features**

- 30fps in 5MP or up to 180fps in HDTV 720p
- Axis Lightfinder and Forensic WDR
- Signed firmware and secure boot
- **Electronic Image Stabilization**
- Front Glass Protective Film (F1XX-TO) included
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- Upgraded i-CS lens option available (see page 3)
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, and UKCA approved
- Operating Temperature:

Zone System: -50°C to +60°C

(USA) Class/Division System: -40°C to +60°C

F1XX-TO & SF-RSK Included









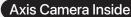








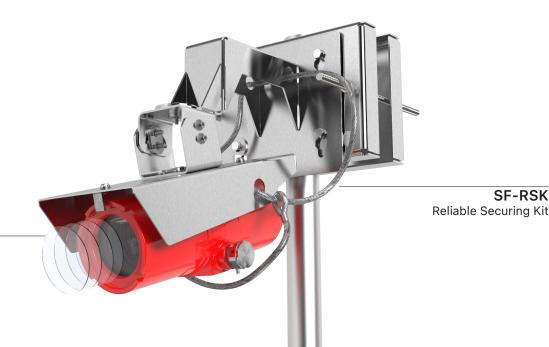






#### Description

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.



F1XX-TO Front Glass Protective Film 4-Layer peel off design

# Specifications

	Spectrum F1	01-P1377-BD	
Camera		Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP,
Image sensor	1/2.7" progressive scan RGB CMOS		HTTPSa, HTTP/2, TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour),
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°	UPnPTM, SNMP, V1/V2c/V3 (MIB-II), DNS/ DNSV6, DDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMPV1/V2/V3, RTCP, ICMP, DHCPV4 V6, ARP, SOCKS, SSH, LLDP, CDP, MQTT V3.1.1 Syslog, Link-Local address (ZeroConf)	
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	System integration Application programming	_
Shutter speed	WDR: 1/33500 s to 1/5 s No WDR: 1/50000 s to 1/5 s	interface VAPIX® and AXIS Camera Application Platforn specifications at axis.com One-Click Cloud Connection	
Sensor	Axis F101-A XF P1377		ONVIF® Profile G, ONVIF® Profile M, ONVIF®
System on chip (SoC)			Profile S, and ONVIF® Profile T, specification at onvif.org
Model	ARTPEC-7		Electronic image stabilization Day/night shift
Memory	1 GB RAM, 512 MB Flash		Defogging
Compute capabilites	Machine learning processing unit (MLPU)		Wide dynamic range
Video		Event triggers	Analytics, shock detection, edge storage events, supervised external input, audio level, time scheduled MQTT subscribe
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	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
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	Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap	
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		PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, play audio clip, WDR mode, day/night mode
		Data streaming	Event data
	indicator	Built-in installation aids	Focus assistant, pixel counter, remote back focus, autorotation
Multi-view streaming	Up to 8 individually cropped out view areas	Analytics	locus, autorotation
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	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
Pan/Tilt/Zoom	image stabilization, barrel distortion correction, scene profiles: forensic, vivid, traffic overview  Digital PTZ	Applications	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active
	Uploadable PTZ driver (Pelco D pre-installed)		
Audio atrooming	Two way full duplay		tampering alarm, audio detection
Audio streaming	Two-way, full duplex		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
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		

### 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	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 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 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 Certificate: IECEx FMG 18.0029X	
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





