

### Spectrum D401-X-P5655-E-BD

Explosion-Proof HDTV 1080p with 32x zoom PTZ Camera

#### **Key Features**

- HDTV 1080p with 32x optical zoom
- Forensic WDR and lightfinder 2.0
- Signed firmware and secure boot
- Focus recall and EIS
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, and UKCA approved.
- Operating Temperature: -20°C to +55°C









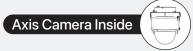












#### Description

Spectrum D401-X-P5655-E-BD explosion-proof camera is a cost-efficient, high performance PTZ with HDTV 1080p and 32x optical zoom. Enclosed in a patented stainless-steel or red aluminum explosion-proof housing, it's certified (cFMus, ATEX, IECEx, INMETRO, and UKCA approved) for use in potentially combustible environments. The camera features Axis Forensic WDR for clarity in scenes that have both light and dark areas. Axis lightfinder 2.0 captures images in low-light while retaining rich colors and sharp detail in moving objects. Also, electronic image stabilization and ehanced security features such as signed firmware and secure boot are included in the camera.

## Specifications

	Spectrum D401	-X-P5655-E-BD	
Camera		Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP,
Image sensor	1/2.8" progressive scan RGB CMOS	HTTP/2, HTTPSa, TLSa, QoS Layer 3 DiffServ FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSvI DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1 Syslog, Link-Local address (ZeroConf)	HTTP/2, HTTPSa, TLSa, QoS Layer 3 DiffSer
Lens	Varifocal, 4.3-137.6 mm, F1.4 - 4.0 Horizontal field of view: 58.3° - 2.4° Vertical field of view: 35.5° - 1.4° Including EIS, barrel and pincushion distortion correction Autofocus and auto-iris		
Day and night	Automatically removable infrared-cut filter	System integration	
Minimum illumination	Color: 0.1 lux at 30 IRE F1.4 B/W: 0.01 lux at 30 IRE F1.4	Above or below operating temperature, Belov operating temperature, Fan failure, IP addres	
Shutter speed	1/66500 s to 2 s		•
Camera angle adjustment	Pan: 360° endless, 0.1°- 350°/s Tilt: 180°, 0.1°- 350°/s Zoom: 32x optical, 12x digital, Total 384x zoom 256 preset positions, nadir flip, limited guard tour, control queue, on-screen directional indicator, set new pan 0°, focus window, focus recall		ONVIF® Profile T, specification at onvif.org  Audio: Audio detection Device status: Above operating temperature, Above or below operating temperature, Below operating temperature, Fan failure, IP address removed, Network lost, New IP address, Shoc detected, Storage failure, System ready, Within operating temperature, Edge storage,
Sensor	Axis P5655-E		
System on chip (SoC)		Recording ongoing, Storage disruption I/O: Digital input, Manual trigger, Virtual ir MQTT subscribe PTZ: PTZ malfunctioning, PTZ movement	
Model	ARTPEC-7		Recording ongoing, Storage disruption I/O: Digital input, Manual trigger, Virtual input
Memory	1024 MB RAM, 512 MB Flash		MQTT subscribe
Compute capabilities	Machine learning processing unit (MLPU)		Camera 1, PTZ preset position reached: Camera
Video			1, PTZ ready
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	Video: Day-night mode Event actions Play audio clips, day-n	Scheduled and recurring: Scheduled event Video: Day-night mode, Live stream open Play audio clips, day-night mode, go to prese
Resolution	1920x1080 HDTV 1080p to 320x180		position, guard tour, I/O, upload of images or video clips via FTP, SFTP, HTTP, HTTPS, network share and email, notification to email, HTTP, HTTPS, TCP and SNMP trap, overlay te prioritized text, record video to SD card and network share, WDR mode MQTT publish
Frame rate	Up to 60/50 fps (60/50 Hz) in all resolutions		
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Controllable frame rate and bandwidth Axis Zipstream technology in H.264 and H.265 VBR/ABR/MBR H.264/H.265		
		Data streaming	Event data
Image settings	Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, Forensic WDR: Up to 120 dB depending on scene, defogging, day/night shift level, tone mapping, fine tuning of low-light behavior, rotation: 0°, 180°, text and image overlay, image freeze on PTZ, electronic image stabilization, scene profiles, 20 individual polygon privacy masks	Built-in installation aids	Pixel counter
o o		Analytics	
		Applications	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, aud detection, advanced gatekeeper, autotracker
Audio			Support for AXIS Camera Application Platforn
Audio input/output	External microphone input or line input, line output (Requires Axis 10-pin Push-pull System Connector or Axis Multicable C I/O Audio Power	Axis Object Analytics	enabling installation of third-party application see axis.com/acap  Object classes: humans, vehicles
	1 m/5 m, not included), automatic gain control	Trigger conditions: line crossing, object ir Up to 10 scenarios	Trigger conditions: line crossing, object in are
Audio streaming	Two-way, full duplex		Metadata visualized with color-coded boundi
Audio encoding	24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz 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, secure boot		
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# Specifications (continued)

General	
Casing (x)	A = Aluminum
Weight	S = Stainless Steel  A = 28 lbs (13.2 kg) S = 55 lbs (24.95 kg)
Dimensions	Height: 13.2 in (335 mm) Ø 8.6 in (218 mm)
Power	44 - 57 Vdc 19W
Storage Conditions	-40°C to 65°C Humidity 5–95% RH (non-condensing)
Operating Conditions	-20°C to +55°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 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 60068-2-78, 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 +55°C Certificate: FM17US0156X USA and Canada (Zones): Class I, Zone 1, AEX/Ex db IIB+H2 T6 Gb Ta -20°C to +55°C, Type 4X, IP66/67 Zone 21, AEX/Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, Type 4X, IP66/67 Certificate: FM17US0156X and FM18CA0103X ATEX: II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 I2 D Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FM18ATEX0057X IECEx: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Certificate: FM6 18.0020X INMETRO: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Certificate: FMG 18.0020X INMETRO: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Cex tb IIIC Db T85 °C Ta = -20°C to +55°C, IP66/67 Certificate number: NCC 20.0083 X
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

### Approvals & Dimensions





8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075

CERT NO. FM17US0156X

INPUT: 44-57 Vdc 19W

MODEL NUMBER: D401-A-P5655-E-BD

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 +55°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



INPUT: 44-57 Vdc 19W





8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA MODEL: D401-A-P5655-E-BD

**SERIAL:** 

Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -20°C to +55°C, Type 4X, IP66



II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66

(Ex) || 2 D Ex tb || || C T85°C Db Ta = -20°C to +55°C, | P66

CERT NO. FM18ATEX0057X, IECEx FMG 18.0020X, FM22UKEX0028X WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
US Patent 9917428

www.spectrumcamera.com US Patent D858611



FABRICADO NO EUA

CERT NO. NCC 20.0083 X MODELO: D401-A-P5655-E-BD ALIMENTAÇÃO:57Vdc 19W



NCC 20.0083 X

Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C Ex tb IIIC T85°C Db Ta = -20°C to +55°C IP66



ATENÇAD: - ENTRADAS DE CABOS M2O X 1.5 - NÃO ABRA ENQUANTO UMA ATMOSFERA EXPLOSIVA PUDER ESTAR PRESENTE - INSTALRA ANEL DE VEDAÇÃO NAS ENTRADAS - NÃO ABRIR QUANDO ENERGÍZADO - RISCO POTENCIAL DE CARGA ELETROSTÁTICA - VER INSTRUÇÕES

-Patente EUA 9917428 -Patente EUA D858611

