

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



Axis Camera Inside



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 enhanced 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, 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, 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)
Image sensor	1/2.8" progressive scan RGB CMOS		
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		
Minimum illumination	Color: 0.1 lux at 30 IRE F1.4 B/W: 0.01 lux at 30 IRE F1.4		
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		
Sensor	Axis P5655-E		
System on chip (SoC)			
Model	ARTPEC-7		
Memory	1024 MB RAM, 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	1920x1080 HDTV 1080p to 320x180		
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		
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		
Audio			
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 1 m/5 m, not included), automatic gain control		
Audio streaming	Two-way, full duplex		
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		
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 S, and ONVIF® Profile T, specification at onvif.org		
Event conditions	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, Shock detected, Storage failure, System ready, Within operating temperature, Edge storage, Recording ongoing, Storage disruption I/O: Digital input, Manual trigger, Virtual input MQTT subscribe PTZ: PTZ malfunctioning, PTZ movement: Camera 1, PTZ preset position reached: Camera 1, PTZ ready Scheduled and recurring: Scheduled event Video: Day-night mode, Live stream open		
Event actions	Play audio clips, day-night mode, go to preset 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 text, prioritized text, record video to SD card and network share, WDR mode MQTT publish		
Data streaming	Event data		
Built-in installation aids	Pixel counter		
Analytics			
Applications	Included AXIS Object Analytics AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, audio detection, advanced gatekeeper, autotracker 2 Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap		
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		

Specifications (continued)

General	
Casing (x)	A = Aluminum S = Stainless Steel
Weight	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	<p>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</p> <p>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</p> <p>Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252</p> <p>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)</p> <p>Network NIST SP500-267</p>
Explosion-proof Certifications	<p>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</p> <p>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</p> <p>ATEX: II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 II 2 D Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FM18ATEX0057X</p> <p>IECEX: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67 Certificate: FMG 18.0020X</p> <p>INMETRO: Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67 Ex tb IIIC Db T85 °C Ta = -20°C to +55°C, IP66/67 Certificate number: NCC 20.0083 X</p>
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

