

# Spectrum D201-X-Q6075-E-BD

Explosion-Proof PTZ Camera with HDTV 1080p and 40x optical zoom

## Key Features

- HDTV 1080p with 40x optical zoom
- Axis Lightfinder 2.0
- Axis Autotracking 2 & Orientation Aid
- Built-in analytics
- TPM, FIPS 140-2 level 2 certified
- 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 +50°C



Axis Camera Inside



## Description

Spectrum D201-X-Q6075-E-BD explosion-proof ptz camera delivers HDTV 1080p with 40x optical zoom for great overviews and close details. Enclosed in a patented stainless-steel or red aluminum explosion-proof housing, it's certified (cFMus, ATEX, IECEx, INMETRO and UKCA) for use in potentially combustible environments. This high-performance explosion-proof ptz camera features Axis Autotracking 2 with click and track functionality, as well as an orientation aid for active object tracking and quick orientation. With Axis Lightfinder 2.0 the camera is able to deliver low-light images with richer colors and sharper images of objects in motion. Additionally, enhanced security features such as signed firmware and secure boot ensures the integrity and authenticity of the firmware.

# Specifications

## Spectrum D201-X-Q6075-E-BD

<b>Camera</b>		<b>System integration</b>	
Image sensor	1/2.8" progressive scan CMOS	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
Lens	4.25–170 mm, F1.6–4.95 Horizontal field of view: 65.1°–2.00° (1080p) Vertical field of view: 39.1°–1.18° (1080p) Autofocus, auto-iris	Event conditions	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, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: live stream open
Day and night	Automatically removable infrared-cut filter	Event actions	Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap PTZ: PTZ preset, start/stop guard tour File upload via FTP, SFTP, HTTP, HTTPS network share and email Notification via email, HTTP, HTTPS and TCP MQTT publish
Minimum illumination	Color: 0.1 lux at 30 IRE, F1.6 B/W: 0.002 lux at 30 IRE, F1.6 Color: 0.15 lux at 50 IRE, F1.6 B/W: 0.003 lux at 50 IRE, F1.6	Data streaming	Event data
Shutter speed	1/11000 s to 1/3 s with 50 Hz 1/11000 s to 1/3 s with 60 Hz	Built-in installation aids	Pixel counter, leveling guide
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–450°/s Tilt: 220°, 0.05°–450°/s Zoom: 40x optical, 12x digital, total 480x zoom E-flip, 256 preset positions, tour recording (max 10, max duration 16 minutes each), guard tour (max 100), control queue, on-screen directional indicator, orientation aid PTZ, set new pan 0°, adjustable zoom speed, focus recall	<b>Analytics</b>	
Sensor	AXIS Q6075-E	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
<b>System on chip (SoC)</b>		Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, autotracking 2, active gatekeeper Basic analytics (not to be compared with third-party analytics): object removed, enter/exit detector, object counter Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Model	ARTPEC-7	<b>General</b>	
Memory	1024 MB RAM, 512 MB Flash	Casing (x)	A = Aluminum S = Stainless Steel
Compute capabilities	Machine learning processing unit (MLPU)	Weight	A = 32 lbs (14 kg) S = 68 lbs (28 kg)
<b>Video</b>		Dimensions	Height: 15.9 in (404 mm) ø 8.6 in (218 mm)
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	Power	44 - 57 Vdc 60W
Resolution	HDTV 1080p 1920x1080 to 320x180	Storage Conditions	-40 °C to 65 °C Humidity 5–95% RH (non-condensing)
Frame rate	Up to 50/60 fps (50/60 Hz) in HDTV 1080p	Operating Conditions	-20°C to +50°C Humidity 10–100% RH (condensing)
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	Warranty	5-year limited warranty, see spectrumcamera.com/warranty
Image settings	Manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 180°, text and image overlay, polygon privacy masks, electronic image stabilization (EIS), freeze on PTZ, automatic defog, backlight compensation, scene profiles Wide Dynamic Range (WDR): Up to 120 dB depending on scene, highlight compensation		
<b>Network</b>			
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, secure keystore (CC EAL4 certified), TPM (FIPS 140-2 certified)		
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, Syslog, Link-Local address (ZeroConf)		

# Specifications

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Approvals	<p><b>Hazardous Area</b> 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><b>EMC</b> 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><b>Safety</b> IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252</p> <p><b>Environment</b> 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><b>Network</b> NIST SP500-267</p>
Explosion-proof Certifications	<p><b>USA (Divisions):</b> 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 +50°C Certificate: FM17US0156X</p> <p><b>USA and Canada (Zones):</b> Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta -20°C to +50°C, Type 4X, IP66/67 Zone 21, AEx/Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, Type 4X, IP66/67 Certificate: FM17US0156X and FM18CA0103X</p> <p><b>ATEX:</b> II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 II 2 D Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, IP66/67 Certificate: FM18ATEX0057X</p> <p><b>IECEx:</b> Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 Ex tb IIIC T85 °C Db Ta = -20°C to +50°C, IP66/67 Certificate: FMG 18.0020X</p> <p><b>INMETRO:</b> Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66/67 Ex tb IIIC Db T85 °C Ta = -20°C to +50°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 on <a href="http://www.axis.com/vms">www.axis.com/vms</a>
Languages (Camera)	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

# Approvals & Dimensions

**FM APPROVED**

**SPECTRUM CAMERA SOLUTIONS**  
SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

8935 ALMEDA GENOA RD.  
HOUSTON, TEXAS 77075  
USA

CERT NO. FM17US0156X  
INPUT: 44-57 Vdc 60W  
MODEL NUMBER: D201-A-Q6075-E-BD SERIAL: TIME-MO-DY-YEAR  
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 +50°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

**SPECTRUM CAMERA SOLUTIONS**  
SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY  
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

**FM US APPROVED**

MADE IN USA  
CERT NO. FM17US0156X  
FM18CA0103X

**CE UK CA**  
2809  
1725

**MODEL:** D201-S-Q6075-E-BD **SERIAL:**  
INPUT: 44-57 Vdc 60W  
Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, Type 4X, IP66  
Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -20°C to +50°C, Type 4X, IP66  
II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C, IP66  
II 2 D Ex tb IIIC T85°C Db Ta = -20°C to +50°C, IP66

CERT NO. FM18ATEX0057X, IECEx FMG 18.0020X, FM22UKEX0028X  
WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT  
INSTALL SEAL AT ENCLOSURE ENTRY

www.spectrumcamera.com  
US Patent 9917428  
US Patent D858611

**SPECTRUM CAMERA SOLUTIONS**  
SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY  
8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

FABRICADO NO EUA  
CERT NO. NCC 20.0083 X  
MODELO: D201-A-Q6075-E-BD  
ALIMENTAÇÃO: 44-57 Vdc 60W

No. SERIE:

**Segurança**  
NCC 20.0083 X  
Ex db IIB+H2 T6 Gb Ta = -20°C to +50°C  
Ex tb IIIC T85°C Db Ta = -20°C to +50°C  
IP66

ATENÇÃO:  
- ENTRADAS DE CABOS M20 X 1.5  
- NÃO ABRA ENQUANTO UMA ATMOSFERA EXPLOSIVA PUDE ESTAR PRESENTE  
- INSTALAR ANEL DE VEDAÇÃO NAS ENTRADAS  
- NÃO ABRIR QUANDO ENERGIZADO  
- RISCO POTENCIAL DE CARGA ELETROSTÁTICA - VER INSTRUÇÕES

Patente EUA 9917428  
Patente EUA D858611

