

# D201-S XPT Q6075 Explosion-Protected PTZ Camera

Class/Division- and Zone-certified high-speed PTZ dome camera

Certified (cFMus, ATEX, IECEx, INMETRO) for use in potentially combustible environments, D201-S XPT Q6075 offers HDTV 1080p and 40x optical zoom for great overview and excellent detail. Featuring Axis Lightfinder 2.0, it captures images with more realistic and saturated colors and sharper images of moving objects. It includes autotracking 2 with click and track functionality for active object tracking, and orientation aid with support for dynamic overlays for quick orientation. Built-in cybersecurity features such as signed firmware and secure boot ensure the integrity and authenticity of the firmware. Furthermore, Axis Zipstream with support for H.264/H.265 significantly lowers bandwidth and storage requirements.

- > **HDTV 1080p at 50/60 fps, with 40x optical zoom**
- > **Axis Lightfinder 2.0**
- > **Autotracking 2 and orientation aid**
- > **TPM, FIPS 140-2 level 2 certified**
- > **cFMus, ATEX, IECEx, INMETRO**



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## Camera

### Image sensor

1/2.8" progressive scan RGB CMOS

### Lens

4.25–170 mm, F1.6–4.95  
Horizontal field of view: 65.1°–2.0° (1080p)  
Vertical field of view: 39.1°–1.18° (1080p)  
Autofocus, auto-iris

### Day and night

Automatically removable infrared-cut filter

### 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

### Shutter speed

1/11000 s to 1/3 s

### 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

## System on chip (SoC)

### Model

ARTPEC-7

### Memory

1024 MB RAM, 512 MB Flash

## 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

HDTV 1080p 1920x1080 to 320x180

### Frame rate

Up to 50/60 fps (50/60 Hz) in HDTV 1080p

### 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 and H.265

### Image settings

Manual shutter time, compression, color, brightness, sharpness, WDR: up to 120 dB depending on scene, white balance, exposure control, exposure zones, fine tuning of behavior at low light, rotation: 0°, 180°, dynamic text and image overlay, polygon privacy masks, image freeze on PTZ, automatic defog, backlight compensation, highlight compensation  
Scene profiles: forensic, indoor, outdoor, traffic overview

## Network

### Security

IP address filtering, HTTPS<sup>1</sup> encryption, IEEE 802.1x (EAP-TLS)<sup>1</sup> network access control, user access log, centralized certificate management

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>®</sup>, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, NTCIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX<sup>®</sup> and AXIS Camera Application Platform; specifications at [axis.com/developer-community](https://axis.com/developer-community).  
One-click cloud connection  
ONVIF<sup>®</sup> Profile G, ONVIF<sup>®</sup> Profile M, ONVIF<sup>®</sup> Profile S and ONVIF<sup>®</sup> Profile T, specification at [onvif.org](https://onvif.org)

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

## Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at [axis.com/vms](https://axis.com/vms).

### 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: 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

### 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

### Data streaming

Event data

### Built-in installation aids

Pixel counter, leveling guide

## Analytics

### Applications

#### Included

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  
Support for AXIS Camera Application Platform enabling installation of third-party applications, see [axis.com/acap](https://axis.com/acap)

## Approvals

### EMC

EN 55032 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3, 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  
**Australia/New Zealand:** RCM AS/NZS CISPR 32 Class A  
**Canada:** ICES-3(A)/NMB-3(A)  
**Japan:** VCCI Class A  
**USA:** FCC Part 15 Subpart B Class A

### Safety

IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, CAN/CSA-C22.2 No. 60950-22, EN 62368-1:2014/A11:2017, EN 60950-22:2017, IEC 62368-1:2014, IEC 60950-22, UL 62368-1:2014, UL 60950-22:2017, CAN/CSA C22.2 No.62368-1-14, CSA CAN/CSA C22.2 No. 60950-22-17

### Environment

ANSI/IEC/CAN/CSA-C22.2 60529 IP66/67, NEMA 250 Type 4X

### Network

NIST SP500-267

### Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS 140

### Explosion

ANSI/ISA/EN/IEC/CAN/CSA-C22.2 60079-0, ANSI/UL/EN/IEC/CAN/CSA-C22.2 60079-1, ANSI/UL/IEC/EC/CAN/CSA-C22.2 60079-31

## 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

II 2 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

Ex tb IIIC T85 °C Db 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

Ex tb IIIC Db T85 °C Ta = -20 °C to 55 °C, IP66/67

Certificate number: NCC 20.0083 X

## Cybersecurity

### Edge security

**Software:** Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption

**Hardware:** Secure boot, Axis Edge Vault with secure keystore (CC EAL4+, FIPS 140-2 level 2 certified hardware protection of cryptographic operations and keys)

### Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

### Documentation

*AXIS OS Hardening Guide*

*Axis Vulnerability Management Policy*

*Axis Security Development Model*

AXIS OS Software Bill of Material (SBOM)

To download documents, go to [axis.com/support/cybersecurity/resources](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

## General

### Casing

IP66/67-rated, electropolished EN 1.4404 (ASM 316L) stainless steel casing for maximum corrosion protection Prepared for American Petroleum Institute (API) DROP compliance, with additional safety wire for US offshore installations

Casing manufactured and certified by Spectrum Camera Solutions, LLC

US Patents 9917428, D858611

### Sustainability

PVC free

### Power

Axis High PoE 60 W SFP midspan: 100–240 V AC, max 66.1 W

Camera consumption: typical 14 W, max 51 W

### Connectors

8-position terminal block for PoE + ground, one M20 conduit entry

### Storage

Pre-installed AXIS Surveillance microSDXC Card 128 GB Support for SD card encryption (AES-XTS-Plain64 256bit)

Support for recording to network-attached storage (NAS)

For SD card and NAS recommendations see [axis.com](https://axis.com)

### Operating conditions

-20 °C to 55 °C (-4 °F to 131 °F)

Arctic Temperature Control: Start-up at -20 °C (-4 °F)

Humidity 10–100% RH (condensing)

### Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

### Dimensions

ø 8.6 in (218 mm)

Height: 15.9 in (404 mm)

### Weight

68 lb (28 kg)

### Included accessories

Installation guide, Windows® decoder 1-user license, Axis High PoE 60 W SFP midspan 1-port, AXIS Surveillance Card 128 GB, two hex keys (5 and 6 mm), thread adapter M20 to 3/4" NPT

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).

### Optional accessories

Wall Mount D201-S XPT, Wall Mount D101-A XF, Pole Mount D201-S XPT, Corner Mount D201-S XPT, AXIS T8310 Video Surveillance Control Board, multi-user decoder license pack  
For more accessories, see [axis.com](https://www.axis.com)

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### Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

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### Warranty

5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)