# AXIS P1378 Network Camera
## Excellent details in 4K under any circumstances

AXIS P1378 captures excellent detailed images in 4K resolution. Featuring Axis Lightfinder and Axis Forensic WDR it delivers true colors and great details in challenging light or near darkness. It offers P-Iris for images with better contrast, clarity, resolution and depth of field. Designed to act as a deterrent, it includes electronic image stabilization for stable images as well as enhanced security features, barrel distortion correction, shock detection and scene profiles. Axis Zipstream supporting H.264/H.265 provides exceptional savings on bandwidth and storage. Plus, with CS mount and support for motorized i-CS, you can easily change lens to meet your requirements.

> **4K resolution**

> **Lightfinder and Forensic WDR**

> **Signed firmware and secure boot**

> **Electronic image stabilization**

> **Zipstream supporting H.264 and H.265**

# AXIS P1378 Network Camera

## Camera

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| **Image sensor** | 1/1.8" progressive scan RGB CMOS |
| **Lens** | IR corrected, CS-mount lens, P-Iris<br>Varifocal 3.9–10 mm, F1.5<br>Horizontal field of view: 119°–45°<br>Vertical field of view: 62°–25° |
| **Day and night** | Automatically removable infrared-cut filter |
| **Minimum illumination** | 4K 25/30 fps with Forensic WDR and Lightfinder:<br>**Color:** 0.15 lux, at 50 IRE F1.5<br>**B/W:** 0.03 lux, at 50 IRE F1.5 |
| **Shutter time** | 1/8500 s to 1/5 s |

## Video

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| **Video compression** | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>H.265 (MPEG-H Part 2/HEVC)<br>Motion JPEG |
| **Resolution** | 3840x2160 (4K) to 160x90 |
| **Frame rate** | 25/30 fps (50/60 Hz) in all resolutions |
| **Video streaming** | Multiple, individually configurable streams in H.264, H.265, and Motion JPEG<br>Axis Zipstream technology in H.264 and H.265<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264/H.265<br>Video streaming indicator |
| **Multi-view streaming** | Up to 8 individually cropped out view areas |
| **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 image stabilization, barrel distortion correction, scene profiles: forensic, vivid, traffic overview |
| **Pan/Tilt/Zoom** | Digital PTZ<br>Uploadable PTZ driver (Pelco D pre-installed) |

## Audio

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| **Audio streaming** | Two-way, full duplex |
| **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<br>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

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| **Security** | Password protection, IP address filtering, HTTPS[a] 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 |
| **Supported protocols** | IPv4, IPv6 USGv6, HTTP, HTTPS[a], HTTP/2, SSL/TLS[a], QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT, Syslog |

## System integration

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| **Application Programming Interface** | Open API for software integration, including VAPIX® and AXIS Camera Application Platform, specifications at *axis.com*<br>AXIS Video Hosting System (AVHS) with One-Click Connection<br>ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org* |
| **Onscreen controls** | Electronic image stabilization<br>Day/night shift<br>Defogging<br>Wide dynamic range |
| **Event triggers** | Analytics, shock detection, edge storage events, supervised external input, audio level, time scheduled |

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| **Event actions** | Record video: SD card and network share<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>Pre- and post-alarm video or image buffering for recording or upload<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>PTZ: PTZ preset, start/stop guard tour<br>Overlay text, external output activation, play audio clip, WDR mode, day/night mode |
| **Data streaming** | Event data |
| **Built-in installation aids** | Focus assistant, pixel counter, remote back focus, autorotation |

## Analytics

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| **Compute capabilities** | Machine learning processing unit (MLPU) |
| **Applications** | **Included**<br>AXIS Video Motion Detection, active tampering alarm, audio detection<br>**Supported**<br>AXIS Live Privacy Shield, AXIS Perimeter Defender, AXIS Guard Suite including AXIS Motion Guard, AXIS Fence Guard, and AXIS Loitering Guard<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap* |

## General

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| **Casing** | Metal (zinc)<br>Color lid: White NCS S 1002-B<br>Color chassis: Black NCS S 9002-N |
| **Mounting** | ¼"-20 tripod screw thread<br>Camera stand included |
| **Sustainability** | Free of hazardous brominated and chlorinated flame retardants (BFR/CFR free) |
| **Memory** | 2 GB RAM, 512 MB Flash |
| **Power** | 12–28 V DC, max 10.5 W, typical 6.1 W<br>Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max 10.7 W, typical 6.2 W<br>Power redundancy |
| **Connectors** | RJ45 10BASE-T/100BASE-TX/1000BASE-T<br>I/O: 6-pin 2.5 mm terminal block, for 2 supervised alarm inputs and 2 outputs<br>RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block<br>DC input, terminal block, 3.5 mm mic/line in, 3.5 mm line out<br>i-CS connector (compatible with P-Iris and DC-iris)<br>Security lock slot<br>AXIS T92G20 connector |
| **Storage** | Support for microSD/microSDHC/microSDXC card<br>Support for SD card encryption<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see *axis.com* |
| **Operating conditions** | –10 °C to 55 °C (14 °F to 131 °F)<br>Humidity 10-85% RH (non-condensing) |
| **Storage conditions** | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5-95% RH (non-condensing) |
| **Approvals** | **EMC**<br>EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, 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, KCC KN32 Class A, KN35<br>**Safety**<br>IEC/EN/UL 62368-1, IS 13252<br>**Network**<br>NIST SP500-267 |
| **Dimensions** | 214 x 80 x 57 mm (8 7/16 x 3 1/8 x 2 1/4 in) |
| **Weight** | 750 g (1.7 lb) |
| **Included accessories** | Connector kit, Installation Guide, Windows® decoder 1-user license, stand, Resistorx® L-key TR20, Torx® L-key T6 |
| **Optional lenses** | Lens CS 12-50 mm F1.4 P-Iris 8 MP<br>Lens i-CS 3.9-10 mm F1.5 5 MP |

| | Lens i-CS 9-50 mm F1.5 8 MP |
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| **Optional accessories** | Axis mounts, Axis lenses, Axis midspans, Axis microphones<br>AXIS T92G20 Outdoor Housing<br>AXIS T8355 Digital Microphone<br>For more accessories, see *axis.com* |
| **Video management software** | AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms* |
| **Languages** | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Polish |
| **Warranty** | 5-year warranty, see *axis.com/warranty* |

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Environmental responsibility:

*axis.com/environmental-responsibility*

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