

# AXIS P3228-LV Network Camera

Streamlined 4K fixed dome for any light conditions

AXIS P3228-LV is a streamlined 4K fixed dome that features a varifocal lens with remote zoom and focus, which facilitates installation and eliminates the need for hands-on fine tuning. Equipped with Forensic WDR to handle scenes with strong variations in light, Lightfinder technology, as well as built-in IR illumination with OptimizedIR, this versatile camera provides exceptional video quality in any light conditions. It supports Axis Zipstream technology that significantly reduces bandwidth and storage requirements.

- > [4K video in full frame rate](#)
- > [Forensic WDR and Lightfinder](#)
- > [OptimizedIR illumination](#)
- > [Remote zoom and focus](#)
- > [Zipstream for reduced bandwidth and storage needs](#)



# AXIS P3228-LV Network Camera

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| <b>Camera</b>                            |  | <b>Data streaming</b>  | Event data   |
| <b>Image sensor</b>                      | Progressive scan RGB CMOS 1/2.5"   | <b>Built-in installation aids</b>  | Remote zoom, remote focus, pixel counter   |
| <b>Lens</b>                              | Varifocal, 3.5–10 mm, F1.7<br>Horizontal field of view: 100°–38°<br>Vertical field of view: 51°–22°<br>Remote zoom and focus, P-Iris control, IR corrected   | <b>Analytics</b>   |  |
| <b>Day and night</b>                     | Automatically removable infrared-cut filter  | <b>Applications</b>  | <b>Included</b><br>AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard<br>AXIS Video Motion Detection, active tampering alarm<br><b>Supported</b><br>AXIS Digital Autotracking, AXIS Demographic Identifier<br>Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner.<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a> |
| <b>Minimum illumination</b>              | Color: 0.19 lux at 50 IRE, F1.7<br>B/W: 0.04 lux at 50 IRE, F1.7, 0 lux with IR illumination on  | <b>General</b>   |  |
| <b>Shutter speed</b>                     | 1/62500 s to 2 s   | <b>Casing</b>  | IP52-rated, IK08 impact-resistant, polycarbonate casing with hard-coated dome and dehumidifying membrane<br>Encapsulated electronics and captive screws<br>Color: white NCS S 1002-B<br>For repainting instructions of casing and impact on warranty, contact your Axis partner.   |
| <b>Camera angle adjustment</b>           | Pan ±180°, tilt -40 to +75°, rotation ±95°   | <b>Mounting</b>  | Mounting bracket with holes for junction boxes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount ¼"-20 UNC tripod screw thread  |
| <b>System on chip (SoC)</b>              |  | <b>Sustainability</b>  | PVC free   |
| <b>Model</b>                             | ARTPEC-6   | <b>Power</b>   | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max 11.5 W, typical 8.6 W   |
| <b>Memory</b>                            | 1 GB RAM, 512 MB Flash   | <b>Connectors</b>  | RJ45 10BASE-T/100BASE-TX PoE<br>Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology  |
| <b>Video</b>                             |  | <b>IR illumination</b>   | Optimized IR with power-efficient, long-life 850 nm IR LEDs.<br>Range of reach 30 m (100 ft) or more depending on the scene  |
| <b>Video compression</b>                 | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>Motion JPEG   | <b>Storage</b>   | Support for microSD/microSDHC/microSDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>   |
| <b>Resolution</b>                        | 3840x2160 to 160x90  | <b>Operating conditions</b>  | 0 °C to 50 °C (32 °F to 122 °F)<br>Humidity 10 to 85% RH (non-condensing)  |
| <b>Frame rate</b>                        | 25/30 fps with power line frequency 50/60 Hz   | <b>Storage conditions</b>  | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5-95% RH (non-condensing)   |
| <b>Video streaming</b>                   | Multiple, individually configurable streams in H.264 and Motion JPEG<br>Axis Zipstream technology in H.264<br>Controllable frame rate and bandwidth<br>VBR/ABR/MBR H.264   | <b>Approvals</b>   | EMC<br>EN 55032 Class B, EN 55012-4, IEC 62236-4,<br>EN 55024, EN 61000-6-1, EN 61000-6-2,<br>FCC Part 15 Subpart B Class A and B, ICES-003 Class B,<br>VCCI Class B, RCM AS/NZS CISPR 22 Class B, KCC KN32 Class B,<br>KN35<br>Safety<br>IEC/EN/UL 60950-1, IEC/EN 62471, IS 13252<br>Environment<br>IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14<br>IEC 60068-2-6 (vibration), IEC 60068-2-27 (shock),<br>IEC 60068-2-30, IEC 60068-2-78, IEC/EN 60529 IP52,<br>IEC/EN 62262 IK08<br>Network<br>NIST SP500-267     |
| <b>Multi-view streaming</b>              | 8 individually cropped out view areas.   | <b>Dimensions</b>  | Height: 101 mm (4 in)<br>ø 149 mm (5 7/8 in)   |
| <b>Pan/Tilt/Zoom</b>                     | Digital PTZ, Preset positions  | <b>Weight</b>  | 550 g (1.2 lb)   |
| <b>Image settings</b>                    | Compression, Color, Brightness, Sharpness, Contrast, Local contrast, White balance, Exposure control (including automatic gain control), Exposure zones, Fine tuning of behavior at different light levels, Forensic WDR: up to 120 dB depending on scene, Text and image overlay, Mirroring of images, Privacy masks<br>Rotation: 0°, 90°, 180°, 270°, including Corridor Format  | <b>Included accessories</b>  | Installation guide, Windows decoder 1-user license, mounting bracket, cable gasket, Resistorx®T20 L-key, drill template, connector guard   |
| <b>Audio</b>                             |  | <b>Optional accessories</b>  | AXIS T6101 Audio and I/O Interface<br>AXIS T6112 Audio and I/O Interface<br>AXIS ACI Conduit Bracket B<br>AXIS ACI Conduit Adapters<br>AXIS T94K01L Recessed Mount Kit<br>AXIS T94S01L Recessed Mount Kit<br>AXIS T94K01D Pendant Kit<br>AXIS Skin Cover C, Black<br>AXIS Mounts   |
| <b>Audio input/output</b>                | Two-way audio connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology  | <b>System integration</b>  |  |
| <b>Network</b>                           |  | <b>Application Programming Interface</b>   |  |
| <b>Security</b>                          | Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X (EAP-TLS) <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware   | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a><br>One-click cloud connection<br>ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T specification at <a href="http://onvif.org">onvif.org</a><br>Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX |  |
| <b>Network protocols</b>                 | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>TM</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SIP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)  | <b>Event triggers</b>  |  |
| <b>System integration</b>                |  | Analytics, edge storage events, virtual inputs through API<br>MQTT subscribe   |  |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a><br>One-click cloud connection<br>ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T specification at <a href="http://onvif.org">onvif.org</a><br>Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX | <b>Event actions</b>   |  |
| <b>Event triggers</b>                    | Analytics, edge storage events, virtual inputs through API<br>MQTT subscribe   | 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>Overlay text, IR illumination on/off<br>MQTT publish   |  |
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| <b>Video management software</b> | AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on <a href="http://axis.com/vms">axis.com/vms</a> |
| <b>Languages</b>                 | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese  |
| <b>Warranty</b>                  | 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>  |

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

Environmental responsibility:

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