

## AXIS P3228-LVE Network Camera

Streamlined outdoor-ready 4K fixed dome for any light conditions

AXIS P3228-LVE is a streamlined, outdoor-ready 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. AXIS P3228-LVE is vandal-resistant with IK10 rating.

- > **4K video in full frame rate**
- > **Outdoor ready and IK10 rated**
- > **Forensic WDR, Lightfinder and OptimizedIR**
- > **Remote zoom and focus**
- > **Zipstream for reduced bandwidth and storage needs**



# AXIS P3228-LVE Network Camera

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| <b>Camera</b>                            |  |
| <b>Image sensor</b>                      | Progressive scan RGB CMOS 1/2.5"   |
| <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>Day and night</b>                     | Automatically removable infrared-cut filter  |
| <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>Shutter speed</b>                     | 1/62500 s to 2 s   |
| <b>Camera angle adjustment</b>           | Pan ±180°, tilt -40 to +75°, rotation ±95°   |
| <b>Video</b>                             |  |
| <b>Video compression</b>                 | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>Motion JPEG   |
| <b>Resolution</b>                        | 3840x2160 to 160x90  |
| <b>Frame rate</b>                        | 25/30 fps with power line frequency 50/60 Hz   |
| <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>Multi-view streaming</b>              | 8 individually cropped out view areas.   |
| <b>Pan/Tilt/Zoom</b>                     | Digital PTZ, Preset positions  |
| <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 low light, 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>Audio</b>                             |  |
| <b>Audio input/output</b>                | Two-way audio connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology  |
| <b>Network</b>                           |  |
| <b>Network protocols</b>                 | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, 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, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)  |
| <b>System integration</b>                |  |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a><br>One-click cloud connection<br>ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® 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 triggers</b>                    | Analytics, edge storage events, virtual inputs through API<br>MQTT subscribe   |
| <b>Event actions</b>                     | 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   |
| <b>Data streaming</b>                    | Event data   |
| <b>Built-in installation aids</b>        | Remote zoom, remote focus, pixel counter   |
| <b>Analytics</b>                         |  |
| <b>Applications</b>                      | Included<br>AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard<br>AXIS Video Motion Detection, active tampering alarm<br>Supported  |
| <b>General</b>                           |  |
| <b>Casing</b>                            | IP66- and NEMA 4X-rated, IK10 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>Mounting</b>                          | Mounting bracket with holes for junction boxes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount<br>¼"-20 UNC tripod screw thread   |
| <b>Sustainability</b>                    | PVC free   |
| <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>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>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>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>Operating conditions</b>              | -40 °C to 50 °C (-40 °F to 122 °F)<br>Start-up: -30 °C to 50 °C (-22 °F to 122 °F)<br>Maximum temperature (intermittent): 55 °C (131 °F)<br>Humidity 10 to 100% RH (condensing)  |
| <b>Storage conditions</b>                | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5-95% RH (non-condensing)   |
| <b>Approvals</b>                         | EMC<br>EN 55032 Class B, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A and B, ICES-003 Class B, VCCI Class B, RCM AS/NZS CISPR 22 Class B, KCC KN32 Class B, KN35<br>Safety<br>IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, 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), IEC 60068-2-30, IEC 60068-2-78, IEC/EN 60529 IP66, NEMA 250 Type 4X, IEC/EN 62262 IK10<br>Network<br>NIST SP500-267 |
| <b>Dimensions</b>                        | Height: 103 mm (4 1/16 in)<br>ø 149 mm (5 7/8 in)  |
| <b>Weight</b>                            | 750 g (1.7 lb) including weathershield   |
| <b>Included accessories</b>              | Installation guide, Windows decoder 1-user license, mounting bracket, cable gasket, Resistorx®T20 L-key, drill template, connector guard, weather shield   |
| <b>Optional accessories</b>              | AXIS T6101 Audio and I/O Interface<br>AXIS T6112 Audio and I/O Interface<br>AXIS ACI Conduit Bracket A<br>AXIS ACI Conduit Adapters<br>AXIS T94M01L Recessed Mount Kit<br>AXIS T94T01D Pendant Kit including weather shield<br>AXIS Mounts<br>AXIS P32-VE Smoked Dome A  |
| <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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese   |
| <b>Warranty</b>                          | 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>  |