

## 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

<b>Camera</b>		<b>Built-in installation aids</b>	Remote zoom, remote focus, pixel counter
<b>Image sensor</b>	Progressive scan RGB CMOS 1/2.5"	<b>Analytics</b>	
<b>Lens</b>	Varifocal, 3.5–10 mm, F1.7 Horizontal field of view: 100°–38° Vertical field of view: 51°–22° Remote zoom and focus, P-Iris control, IR corrected	<b>Applications</b>	<b>Included</b> AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm <b>Supported</b> AXIS Digital Autotracking, AXIS Perimeter Defender, AXIS Demographic Identifier Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>General</b>	
<b>Minimum illumination</b>	Color: 0.19 lux at 50 IRE, F1.7 B/W: 0.04 lux at 50 IRE, F1.7, 0 lux with IR illumination on	<b>Casing</b>	IP66- and NEMA 4X-rated, IK10 impact-resistant, polycarbonate casing with hard-coated dome and dehumidifying membrane Encapsulated electronics and captive screws Color: white NCS S 1002-B For repainting instructions of casing and impact on warranty, contact your Axis partner.
<b>Shutter speed</b>	1/62500 s to 2 s	<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>Camera angle adjustment</b>	Pan ±180°, tilt -40 to +75°, rotation ±95°	<b>Sustainability</b>	PVC free
<b>Video</b>		<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>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE Audio and I/O connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology
<b>Resolution</b>	3840x2160 to 160x90	<b>IR illumination</b>	Optimized IR with power-efficient, long-life 850 nm IR LEDs. Range of reach 30 m (100 ft) or more depending on the scene
<b>Frame rate</b>	25/30 fps with power line frequency 50/60 Hz	<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/ABR/MBR H.264	<b>Operating conditions</b>	-40 °C to 50 °C (-40 °F to 122 °F) Start-up: -30 °C to 50 °C (-22 °F to 122 °F) Maximum temperature (intermittent): 55 °C (131 °F) Humidity 10 to 100% RH (condensing)
<b>Multi-view streaming</b>	8 individually cropped out view areas.	<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
<b>Pan/Tilt/Zoom</b>	Digital PTZ, Preset positions	<b>Approvals</b>	<b>EMC</b> 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 A5/NZS CISPR 22 Class B, KCC KN32 Class B, KN35 <b>Safety</b> IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, IEC/EN 62471, IS 13252 <b>Environment</b> IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14 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 <b>Network</b> NIST SP500-267
<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 Rotation: 0°, 90°, 180°, 270°, including Corridor Format	<b>Dimensions</b>	Height: 103 mm (4 1/16 in) ø 149 mm (5 7/8 in)
<b>Audio</b>		<b>Weight</b>	750 g (1.7 lb) including weathershield
<b>Audio input/output</b>	Two-way audio connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology	<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>Network</b>		<b>Optional accessories</b>	AXIS T6101 Audio and I/O Interface AXIS T6112 Audio and I/O Interface AXIS ACI Conduit Bracket A AXIS ACI Conduit Adapters AXIS T94M01L Recessed Mount Kit AXIS T94T01D Pendant Kit including weather shield AXIS Mounts AXIS P32-VE Smoked Dome A
<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		
<b>Supported 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™, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SIP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		
<b>System integration</b>			
<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> 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 <a href="http://onvif.org">onvif.org</a> 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 MQTT subscribe		
<b>Event actions</b>	Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text, IR illumination on/off MQTT publish		
<b>Data streaming</b>	Event data		

<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>	a. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<a href="http://www.openssl.org">www.openssl.org</a>), and cryptographic software written by Eric Young (<a href="mailto:ey@cryptsoft.com">ey@cryptsoft.com</a>).</i>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese	Environmental responsibility: <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a>
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>	