

# 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

## Camera

### Image sensor

Progressive scan RGB CMOS 1/2.5"

### Lens

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

### Day and night

Automatically removable infrared-cut filter

### Minimum illumination

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

### Shutter speed

1/62500 s to 2 s

### Camera adjustment

Pan  $\pm 180^\circ$ , tilt -40 to +75°, rotation  $\pm 95^\circ$

## System on chip (SoC)

### Model

ARTPEC-6

### Memory

1 GB RAM, 512 MB Flash

## Video

### Video compression

H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles  
Motion JPEG

### Resolution

3840x2160 to 160x90

### Frame rate

25/30 fps with power line frequency 50/60 Hz

## Video streaming

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

## Multi-view streaming

8 individually cropped out view areas.

## Pan/Tilt/Zoom

Digital PTZ, Preset positions

## Image settings

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  
Rotation: 0°, 90°, 180°, 270°, including Corridor Format

## Audio

### Audio input/output

Two-way audio connectivity via AXIS T61 Audio and I/O  
Interfaces with portcast technology (no support for AXIS T61 Mk II)

## Network

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS<sup>1</sup>, TLS<sup>1</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, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

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

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at [axis.com/developer-community](https://axis.com/developer-community).

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T specification at [onvif.org](https://onvif.org)

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX

### 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 triggers

Analytics, edge storage events, virtual inputs through API

MQTT subscribe

### Event actions

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

### Data streaming

Event data

### Built-in installation aids

Remote zoom, remote focus, pixel counter

## Analytics

### Applications

#### Included

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard

AXIS Video Motion Detection, active tampering alarm

#### Supported

AXIS Demographic Identifier

Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner.

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

## General

### Casing

IP52-rated, IK08 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.

### Mounting

Mounting bracket with holes for junction boxes

(double-gang, single-gang, and 4" octagon) and for wall or ceiling mount

1/4"-20 UNC tripod screw thread

### Sustainability

PVC free

### Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3,  
max 11.5 W, typical 8.6 W

### Connectors

RJ45 10BASE-T/100BASE-TX PoE

Audio and I/O connectivity via AXIS T61 Audio and I/O

Interfaces with portcast technology (no support for AXIS T61 Mk II)

### IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs. Range of reach 30 m (100 ft) or more depending on the scene

### Storage

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 [axis.com](https://axis.com)

### Operating conditions

0 °C to 50 °C (32 °F to 122 °F)

Humidity 10 to 85% RH (non-condensing)

### Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5-95% RH (non-condensing)

## Approvals

### EMC

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

### Safety

IEC/EN/UL 60950-1, IEC/EN 62471, IS 13252

### Environment

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 IP52,  
IEC/EN 62262 IK08

### Network

NIST SP500-267

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## Dimensions

Height: 101 mm (4 in)  
ø 149 mm (5 7/8 in)

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## Weight

550 g (1.2 lb)

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## Included accessories

Installation guide, Windows decoder 1-user license,  
mounting bracket, cable gasket, Resistorex®T20 L-key,  
drill template, connector guard

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## Optional accessories

AXIS T6101 Audio and I/O Interface  
AXIS T6112 Audio and I/O Interface  
AXIS ACI Conduit Bracket B  
AXIS ACI Conduit Adapters  
AXIS T94K01L Recessed Mount Kit  
AXIS T94S01L Recessed Mount Kit  
AXIS T94K01D Pendant Kit  
AXIS Skin Cover C, Black  
AXIS Mounts  
AXIS P32-V Smoked Dome A

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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://axis.com/warranty)