# AXIS P3225-LV Mk II Network Camera
## Streamlined HDTV 1080p fixed dome for any light conditions

AXIS P3225-LV Mk II is a streamlined fixed dome that provides HDTV 1080p video. It features a varifocal lens and remote zoom and focus, which eliminates the need for hands-on fine tuning. Equipped with WDR – Forensic Capture to handle scenes with strong variations in light, Lightfinder technology for exceptional light sensitivity, as well as built-in IR illumination with OptimizedIR, this versatile camera provides outstanding video quality in any light conditions. It supports Axis Zipstream technology that significantly reduces bandwidth and storage requirements.

> **HDTV 1080p video quality**
> **Remote zoom and focus**
> **Lightfinder and WDR – Forensic Capture**
> **OptimizedIR illumination**
> **Axis Zipstream**

# AXIS P3225-LV Mk II Network Camera

## Camera

| | |
|---|---|
| **Image sensor** | Progressive scan RGB CMOS 1/3" |
| **Lens** | Varifocal, 3.0–10.5 mm, F1.4<br>Horizontal field of view 92°–34°<br>Vertical field of view 50°–20°<br>Remote focus and zoom, P-Iris control, IR corrected |
| **Day and night** | Automatically removable infrared-cut filter |
| **Minimum illumination** | **HDTV 1080p 25/30 fps with WDR – forensic capture and Lightfinder:**<br>Color: 0.16 lux, F1.4<br>B/W: 0.03 lux, F1.4, 0 lux with IR illumination on<br>**HDTV 1080p 50/60 fps:**<br>Color: 0.32 lux, F1.4<br>B/W: 0.06 lux, F1.4, 0 lux with IR illumination on<br>**Color:** 0.1 lux, F1.4<br>**B/W:** 0.01 lux, F1.4, 0 lux with IR illumination on<br>*at shutter speed 1/12sec |
| **Shutter time** | 1/66500 s to 1 s |
| **Camera angle adjustment** | Pan ±180°, tilt -5 to +75°, rotation ±95° |

## Video

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|---|---|
| **Video compression** | H.264 Baseline, Main and High Profile (MPEG-4 Part 10/AVC)<br>Motion JPEG |
| **Resolutions** | 1920x1080 to 160x90 |
| **Frame rate** | **With WDR:** 25/30 fps with power line frequency 50/60 Hz<br>**Without WDR:** 50/60 fps with power line frequency 50/60 Hz |
| **Video streaming** | Multiple, individually configurable streams in H.264 and Motion JPEG<br>Axis Zipstream technology in H.264<br>Controllable frame rate and bandwidth, VBR/MBR H.264 |
| **Multi-view streaming** | 2 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, WDR - forensic capture: 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 |

## Network

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|---|---|
| **Security** | Password protection, IP address filtering, HTTPS[a] encryption, IEEE 802.1X[a] network access control, Digest authentication, User access log, Centralized Certificate Management |
| **Supported protocols** | IPv4/v6, HTTP, HTTPS[a], SSL/TLS[a], QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH |

## System integration

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| **Application Programming Interface** | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *www.axis.com*<br>AXIS Video Hosting System (AVHS) with One-Click Connection<br>ONVIF Profile S and ONVIF Profile G, specification at *www.onvif.org* |
| **Analytics** | AXIS Video Motion Detection, active tampering alarm<br>Support for AXIS Camera Application Platform enabling installation of AXIS Cross Line Detection, AXIS Digital Autotracking and third-party applications, see *www.axis.com/acap* |
| **Event triggers** | Analytics, Edge storage events |
| **Event actions** | File upload: FTP, SFTP, HTTP, HTTPS, network share and email<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>Video recording to edge storage<br>Pre- and post-alarm video buffering<br>Send video clip<br>Overlay text<br>IR illumination on/off |
| **Data streaming** | Event data |
| **Built-in installation aids** | Remote zoom, Remote focus, Pixel counter, OptimizedIR with adjustable IR illumination intensity |

## General

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|---|---|
| **Casing** | IP52-rated, IK08 impact-resistant, polycarbonate casing with dehumidifying membrane<br>Encapsulated electronics and captive screws<br>Color: white NCS S 1002-B<br>For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner. |
| **Sustainability** | PVC free |
| **Memory** | 512 MB RAM, 256 MB Flash |
| **Power** | Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3, max 10.2 W, typical 6.1 W |
| **Connectors** | RJ45 10BASE-T/100BASE-TX PoE |
| **IR illumination** | OptimizedIR with power-efficient, long-life 850 nm IR LEDs with adjustable illumination intensity. Range of reach up to 30 m (100 ft) depending on scene |
| **Storage** | Support for microSD/microSDHC/microSDXC card<br>SD card encryption<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see *www.axis.com* |
| **Operating conditions** | 0 °C to 50 °C (32 °F to 122 °F)<br>Humidity 10 to 85% RH (non-condensing) |
| **Storage conditions** | -40 °C to 65 °C (-40 °F to 149 °F) |
| **Approvals** | **EMC**<br>EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, EN 55024, EN 50121-4, IEC 62236-4, FCC Part 15 Subpart B Class A and B, ICES-003 Class B, VCCI Class B, RCM AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24<br>**Safety**<br>IEC/EN/UL 60950-1, IEC/EN 62471<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 60068-2-78, IEC/EN 60529 IP52, IEC/EN 62262 IK08 |
| **Dimensions** | Height: 101 mm (4 in)<br>ø 149 mm (5 7/8 in) |
| **Weight** | 550 g (1.2 lb) |
| **Included accessories** | Installation Guide, Windows decoder 1-user license, Mounting bracket, Cable gasket, Resistorx T20 L-key, Drill template, Connector guard |
| **Optional accessories** | AXIS ACI Conduit Bracket B<br>AXIS ACI Conduit Adapters<br>AXIS T94K01L Recessed Mount Kit<br>AXIS T94K01D Pendant Kit<br>AXIS Skin Cover C, Black<br>AXIS Mounts<br>Smoked dome |
| **Video management software** | AXIS Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on *www.axis.com/support/downloads* |
| **Languages** | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese |
| **Warranty** | Axis 3-year warranty and AXIS Extended Warranty option, see *www.axis.com/warranty* |

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

**Environmental responsibility:**

www.axis.com/environmental–responsibility

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**COMMUNICATIONS**

## Regarding general tender specifications for Government projects in Thailand

At Axis Communications, we believe in a close cooperation with our partners and provide a full range of sales, marketing and technical support from our Headquarters in Sweden.

Following the recently adopted requirements by local authorities, Axis submits this document in order to fulfill the specific needs of the market in Thailand.

In regard to the level of minimum illumination needed to obtain images as according to Axis standard of image quality, we provide the following information for The Minimum illumination

The following pages detail additional tests we have done with our cameras to provide minimum illuminations under different light conditions and shutter speeds.

### *About Axis' measurement of minimum illumination*
*Axis measures the minimum amount of illumination required by Axis network video products to produce images of a specified quality. The MMI (Measurement of Minimum Illumination) method described in our technical note applies solely to camera blocks developed by Axis Communications AB. The Axis MMI method is based on the CEA-639 standard, "Consumer Camcorder or Video Camera Low Light Performance". For detailed information, see the AXIS technical note on the MMI method.*
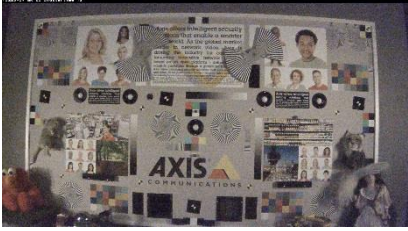
**References:**
AXIS Technical Note (MMI): http://www.axis.com/files/tech_notes/Axis_MMI.pdf
AXIS whitepaper (The challenge of minimum illumination):
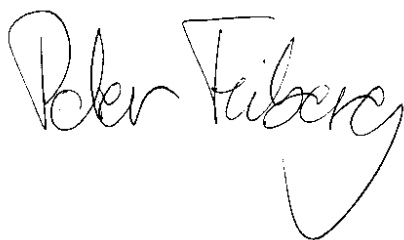http://www.axis.com/files/whitepaper/wp_light_sensitivity_41137_en_1011_lo.pdf

Test Environment and Result for P3225-V Mk II, P3225-VE Mk II, P3225-LV Mk II & P3225-LVE Mk II:

| Room Dimension | 4m x 5m x 2.8m | |
|---|---|---|
| Object Distance | 150 cm | |
| Room illumination | Color mode : 0.1 Lux | B/W mode : 0.01 Lux |
| Shutter time:1/25 Sec |  |  |
| Shutter time:1/12 Sec |  |  |
| Shutter time : 1 Sec |  |  |

From the test result above, we confirm that P3225-V Mk II, P3225-VE Mk II, P3225-LV Mk II & P3225-LVE Mk II can perform color mode at 0.1 Lux and B&W mode at 0.01 Lux.

Best Regards

Peter Friberg
Director Solution Management
Axis Communications AB