AXIS A8004-VE
Reliable audiovisual entry control

The weather and vandal-resistant AXIS A8004-VE is an open, non-proprietary, IP-based network video door station for two-way communication, video identification, and remote entry control. A perfect complement to any surveillance installation, it provides an easy way to add communication and entry control to surveillance systems. IP standards and an open interface enable integration in both small and enterprise systems, and with third-party video management software. AXIS A8004-VE offers excellent low-light performance with WDR, reliable 24/7 identification, and clear two-way speech thanks to echo cancellation and noise reduction. It has multiple inputs and outputs for remote control of door locks and other equipment.

> High-quality audio and video  
> Easy to install, PoE+  
> Open interface  
> IP phone integration and SIP support  
> Remote entry control
**AXIS A8004-VE**

**Camera**
- **Image sensor**: 1/3” Progressive scan RGB CMOS
- **Lens**: Horizontal field of view: 97°
  - Vertical field of view: 78°
  - M12 mount, F2.8, Fixed iris, Megapixel resolution, 2.8 mm
- **Light sensitivity**: 0.4 - 10000 lux, F2.8, 0 lux with illumination LED on
- **Shutter time**: Dynamic capture, 1/192 s to 1/37 s (50 Hz), 1/231 s to 1/44 s (60 Hz)

**Video**
- **Video compression**: H.264 (MPEG-4 Part 10/AVC), Baseline Profile, Main Profile, Motion JPEG
- **Resolution**: 1280x960 (1.3 MP) to 160x90
- **Frame rate**: H.264 720p (1280x720), 25/30 fps (50/60 Hz)
- **Video streaming**: Multiple individually configurable streams; H.264, Motion JPEG, Controllable frame rate and bandwidth, VBR/CBR H.264
- **Image settings**: Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Fine-tuning of behavior at low light, WDR - Dynamic Capture, Text and image overlay, Mirroring of images, Privacy mask

**Audio**
- **Audio streaming**: Two-way, Full duplex
- **Audio compression**: AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8kHz, Configurable bit rate
- **Audio output**: 85 dB (at 0.5 m)
- **Audio input/output**: Line output, Built-in microphone, Built-in speaker

**Pan/Tilt/Zoom**: Digital PTZ

**Network Security**
- **Password protection**: IP address filtering, HTTPS encryption, IEEE 802.1X network access control, Digest authentication, User access log

**Supported protocols**
- IPv4/6, HTTP, HTTPS*, SSL/TLS*, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UhpPM*, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SIP, SRTP, SIP, SIP TLS

**System integration**
- **Application Programming Interface**: Open API for software integration including VAPIX* and AXIS Camera Application Platform; specifications at www.axis.com; AXIS Video Hosting System (AVHS) with One-click Connection, ONVIF Profile S; specification available at www.onvif.org
- **Software**: Third-party video management software and mobile applications. See www.axis.com for compatibility
- **VoIP**: SIP support for integration with VoIP Peer-to-peer or integrated with SIP/IPBX. Tested with various SIP softwares such as Cisco, Bria and Grandstream. Tested with various PBX softwares such as Cisco, Avaya and Asterisk.
- **Analytics**: Included
  - AXIS Video motion detection, Active tampering alarm, Audio detection
  - AXIS Camera Application Platform enabling installation of additional applications, External input, Edge storage events, Shock detection
- **Event triggers**: Call: DTMF, State, State changes
  - Detectors: Video motion detection, Audio detection, Live stream accessed, Shock detection, Tampering
  - Hardware: Casing open, Network
  - Input signal: Digital input port, Manual trigger, Virtual input
  - PTZ: Moving, Preset reached
  - Storage: Disruption, Recording
  - System: System ready
  - Time: Use schedule

**Event actions**
- Make call: SIP, API
- File upload: FTP, HTTP, network share and email
- Notification: email, HTTP and TCP
- Video and audio recording to edge storage, Pre- and post-alarm video buffering, External output activation, Play audio clip, Overlay text, PTZ control, Status LED, WDR mode

**Data streaming**
- Event data

**Built-in installation aids**
- Pixel counter

**General**
- **Casing**: Brushed stainless steel front plate. Aluminum body: IP66-rated, NEMA 4x-rated, IK08 impact-resistant
- **Sustainability**: PVC free
- **Memory**: 256 MB RAM, 128 MB Flash
- **Power**: Power In: Power over Ethernet IEEE 802.3af/802.3at
  - Type Class 3, 10-28 V DC min. 25 W
  - Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4; Power output: 2x12 V DC, max. depending on Power In to AXIS A8004-VE; PoE Class 3: max. out 160 mA at 12 V DC Relay pin, I/O 50 mA at 12 V DC I/O pin; PoE+ Class 4: max. out 750 mA at 12 V DC Relay pin, I/O 200 mA at 12 V DC I/O pin; DC in: max. out 750 mA at 12 V DC Relay pin, I/O 200 mA at 12 V DC I/O pin; Relays: Lock/sync sourced from AXIS A8004-VE: Maximum current is stated in Power out section. Lock/sync sourced externally: Maximum voltage/current is 0.7A at 30 V
- **Connectors**: RJ45 10BASE-T/100BASE-TX, PoE, DC Power, 4 Inputs/outputs, 2 relays, Line out
- **Storage**: microSD/microSDHC/microSDXC slot (card not included). Support for recording to network share (network-attached storage or file server)

**Operating conditions**
- Temperature: -25 °C to 50 °C (-13 °F to 122 °F)
- Humidity: 10-100% RH (condensing)
- Dimensions: Wall mount: 140 x 260 x 55.5 mm (5.5 x 10 x 2.2 in); Recessed wall mount: 140 x 260 x 21 mm (5.5 x 10 x 0.8 in)
- Weight: Main unit: 1.5 kg (3.3 lb); Wall mount frame: 0.370 kg (0.82 lb); Total weight: 1.87 kg (4.12 lb)

**Included accessories**
- Installation Guide, Wall mount frame, Resistors T20 L-key, Resistors T10 L-key, Plug connectors (power, I/O, line-out, relay), Cable gasket, AXIS Connector guard A, AXIS Authentication key

**Mounting options**
- Wall mount: Frame included. Recessed mount: Use AXIS A8004 Junction Box or RACO 942 2-Gang 2-1/2” DP

**Optional accessories**
- AXIS A8004 Junction box, AXIS A9801 Security Relay, Safety relay

**Video management software**
- Video management software from Axis’ Application Development Partners (not included). For more information, see www.axis.com/products/video/software

**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).
  - b. Support for two locks (max. total 750 mA) when powered with DC/PoE Class 4. For higher power requirements connect external power (max. 30 V DC 0.7A).

**Environmental responsibility**
- www.axis.com/environmental-responsibility

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