AXIS Q3505-V Network Camera

HDTV at 60 fps and top-of-the-line video quality

The vandal-resistant AXIS Q3505-V delivers HDTV 1080p video at up to 60 fps, providing smooth video even when capturing fast movements. Wide Dynamic Range-Forensic Capture optimizes video, highlighting details and increasing forensic usability. AXIS Q3505-V supports Axis' Lightfinder technology, making it extremely sensitive to low light. It can transition seamlessly between handling WDR and low-light conditions. Electronic image stabilization greatly improves video quality when the camera is subject to vibration, resulting in smoother and steadier video. Leveling assistance guides the camera to the correct level, and auto rotation flips the image to the right orientation. Remote zoom and focus eliminate the need for hands-on fine tuning.

> **HDTV 1080p at up to 60 fps**

> **WDR - Forensic Capture**

> **Seamless transition between WDR and Lightfinder**

> **Electronic Image Stabilization**

> **IK10 impact resistance and IP52 dust and water protection**

AXIS Q3505-V Network Camera

Models	**AXIS Q3505–V 9 mm** **AXIS Q3505–V 22 mm**

Camera

Image sensor	Progressive scan RGB CMOS 1/2.8"
Lens	Varifocal, Remote focus and zoom, P-Iris control, IR corrected, Megapixel resolution **9 mm:** 3–9 mm, F1.3 Horizontal angle of view: 105°–35° **22 mm:** 9–22 mm, F1.6 Horizontal angle of view: 33°–16°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**9 mm: HDTV 1080p 25/30 fps with WDR – forensic capture and Lightfinder:** Color: 0.18 lux, F1.3; B/W: 0.04 lux, F1.3 **HDTV 1080p 50/60 fps:** Color: 0.36 lux, F1.3; B/W: 0.08 lux, F1.3 **22 mm: HDTV 1080p 25/30 fps with WDR – forensic capture:** Color: 0.28 lux, F1.6; B/W: 0.06 lux, F1.6 **HDTV 1080p 50/60 fps:** Color: 0.56 lux, F1.6; B/W: 0.11 lux, F1.6
Shutter time	1/142850 s to 2 s
Camera angle adjustment	**Pan:** 360° **Tilt:** -5° to 90° (0° = Parallel to camera mount/bottom) **Rotation:** ±95°

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High profiles, Motion JPEG
Resolutions	1920x1200 (WUXGA) to 160x90
Frame rate	**HDTV 1080p (1920x1080) with WDR:** 25/30 fps with power line frequency 50/60 Hz **HDTV 1080p (1920x1080) without WDR:** 50/60 fps with power line frequency 50/60 Hz **WUXGA (1920x1200) without WDR:** 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/MBR H.264
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zone, Backlight compensation, Fine tuning of behavior at different light levels, WDR-forensic capture: Up to 120 dB depending on scene, Electronic Image Stabilization, Barrel distortion correction, Text and image overlay, Privacy masks, Mirroring of images Rotation: 0°, 90°, 180°, 270°, Auto, Including Corridor Format
Pan/Tilt/Zoom	Digital PTZ, Optical zoom, Preset positions **9 mm:** 3x Optical zoom, 2x Digital zoom **22 mm:** 2.4x Optical zoom, 2x Digital zoom

Audio

Audio streaming	Two-way
Audio compression	AAC LC 8/16/32 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8kHz, Configurable bitrate
Audio input/output	External balanced/unbalanced microphone input or line input, Line output

Network

Security	Password protection, IP address filtering, IEEE 802.1X network access control[a], HTTPS[a] encryption, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4/v6, HTTP, HTTPS, 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

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 at *www.onvif.org*
Analytics	Video motion detection, Active tampering alarm, Audio detection 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, External input, Edge storage events, Shock detection
Event actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP External output activation, Pre- and post-alarm video buffering, Video and audio recording to edge storage, Play audio clip, Zoom preset, Overlay text, Send SNMP trap
Data streaming	Event data
Built-in installation aids	Remote zoom, Remote focus, Pixel counter, Leveling assistant, Auto rotation

General

Casing	IP52-rated, IK10 impact-resistant casing with polycarbonate dome, aluminum base and dehumidifying membrane Casing Color: White NCS S 1002-B For repainting instructions of casing or skin cover and impact on warranty, contact your Axis partner
Memory	512 MB RAM, 128 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2, max. 5.5 W
Connectors	RJ45 10BASE-T/100BASE-TX PoE, Terminal block for two configurable inputs/outputs (12 V DC output, max. load 50 mA), 3.5 mm mic/line in, 3.5 mm line out
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see *www.axis.com*
Operating conditions	-10 °C to 50 °C (14 °F to 122 °F) Humidity 10–85% RH (non-condensing)
Approvals	IEC/EN/UL 60950-1, EN 55022 Class B, EN 55024, IEC/EN 61000-6-1, IEC/EN 61000-6-2, FCC Part 15, Subpart B, Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-60, IEC 60068-2-78, EN 50121-4, IEC 62236-4 IEC 60068-2-52, IEC/EN 60529 IP52, IEC/EN 62262 IK10
Weight	1.2 kg (2.6 lb)
Included accessories	Installation Guide, Windows decoder 1-user license, Mounting bracket, Drill hole template, Cable gaskets, I/O connector Resistorx T20 L-key
Optional accessories	AXIS Intrusion Switch B, AXIS T98A17-VE Media Converter Cabinet A, AXIS T98A17-VE Surveillance Cabinet, AXIS T91A47 Pole Mounts, AXIS T90B Illuminators, Pendant kit, Axis Conduit Adapters, Axis Ceiling Mounts, Axis Wall Mounts, Axis Pendant kit
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on *www.axis.com/techsup/software*
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).*

More information is available at **www.axis.com**

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COMMUNICATIONS

AXIS Q3505-VE Network Camera
HDTV at 60 fps and top-of-the-line video

The vandal-resistant AXIS Q3505-VE delivers HDTV 1080p video at up to 60 fps, providing smooth video even when capturing fast movements. Wide Dynamic Range–Forensic Capture optimizes video, highlighting details and increasing forensic usability. AXIS Q3505-VE supports Axis' Lightfinder technology, making it extremely sensitive to low light. It can transition seamlessly between handling WDR and low-light conditions. Electronic image stabilization greatly improves video quality when the camera is subject to vibration, resulting in smoother and steadier video. Leveling assistance guides the camera to the correct level, and auto rotation flips the image to the right orientation. The outdoor-ready AXIS Q3505-VE is specially designed for reliable, weatherproof and vandal-resistant installation.

> **HDTV 1080p at up to 60 fps**
> **WDR - Forensic Capture**
> **Seamless transition between WDR and Lightfinder**
> **Electronic Image Stabilization**
> **IK10+ (50 joules) impact resistance**

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AXIS Q3505-VE Network Camera

Models	AXIS Q3505-VE 9 mm AXIS Q3505-VE 22 mm

Camera

Image sensor	Progressive scan RGB CMOS 1/2.8"
Lens	Varifocal, Remote focus and zoom, P-Iris control, IR corrected, Megapixel resolution **9 mm:** 3–9 mm, F1.3 Horizontal angle of view: 105°–35° **22 mm:** 9–22 mm, F1.6 Horizontal angle of view: 33°–16°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**9 mm:** HDTV 1080p 25/30 fps with WDR – forensic capture and Lightfinder: Color: 0.18 lux, F1.3; B/W: 0.04 lux, F1.3 HDTV 1080p 50/60 fps: Color: 0.36 lux, F1.3; B/W: 0.08 lux, F1.3 **22 mm:** HDTV 1080p 25/30 fps with WDR – forensic capture: Color: 0.28 lux, F1.6; B/W: 0.06 lux, F1.6 HDTV 1080p 50/60 fps: Color: 0.56 lux, F1.6; B/W: 0.11 lux, F1.6
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Audio streaming	Two-way
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Security	Password protection, IP address filtering, IEEE 802.1X network access control[a], HTTPS[a] encryption, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4/v6, HTTP, HTTPS, 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

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	ONVIF Profile S, specification at *www.onvif.org*
Analytics	Video motion detection, Active tampering alarm, Audio detection 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, External input, Edge storage events, Shock detection
Event actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP External output activation, Pre- and post-alarm video buffering, Video and audio recording to edge storage, Play audio clip, Zoom preset, Overlay text, Send SNMP trap
Data streaming	Event data
Built-in installation aids	Remote zoom, Remote focus, Pixel counter, Leveling assistant, Auto rotation

General

Casing	IP66/67- and NEMA 4X-rated, IK10+ (50 joules) impact-resistant casing with polycarbonate dome, aluminum base and dehumidifying membrane Casing Color: White NCS S 1002-B For repainting instructions of casing or skin cover and impact on warranty, contact your Axis partner
Memory	512 MB RAM, 128 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, max. 11.4 W When powered by the optional AXIS T8051 Power Converter AC/DC to DC: 12.4 W at 12 V DC, 21.3 VA at 24 V AC
Connectors	RJ45 10BASE-T/100BASE-TX PoE, Terminal block for two configurable inputs/outputs (12 V DC output, max. load 50 mA), 3.5 mm mic/line in, 3.5 mm line out
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see *www.axis.com*
Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
Approvals	IEC/EN/UL 60950-1, EN 55022 Class B, EN 55024, IEC/EN 61000-6-1, IEC/EN 61000-6-2, FCC Part 15, Subpart B, Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-60, IEC 60068-2-78, EN 50121-4, IEC 62236-4 IEC/EN/UL 60950-22, IEC/EN 60529 IP66/67, ISO 20653 IP6K9K, NEMA 250 Type 4X, IEC/EN 62262 IK10+ (50J), EN 61000-3-2, EN 61000-3-3
Weight	1.8 kg (3.97 lb) with weather shield
Included accessories	Installation Guide, Windows decoder 1-user license, Mounting bracket, Drill hole template, Cable gaskets, I/O connector Resistorx T20 L-key Weather shield, Axis U-shape conduit adapter
Optional accessories	AXIS Intrusion Switch B, AXIS T98A17-VE Media Converter Cabinet A, AXIS T98A17-VE Surveillance Cabinet, AXIS T91A47 Pole Mounts, AXIS T90B Illuminators, Pendant kit, Axis Conduit Adapters, Axis Ceiling Mounts, Axis Wall Mounts, Axis Pendant kit
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on *www.axis.com/techsup/software*
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).*

More information is available at www.axis.com

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