

AXIS Q60-S PTZ Dome Network Cameras

Pressurized, stainless steel high-speed PTZ domes



- > Marine-grade stainless steel
- > Casing for pressurized nitrogen
- > Up to HDTV 1080p with high zoom
- > SFP slots for fiber, RJ45 connections
- > I/O for alarm in/out

AXIS Q60-S PTZ Dome Network Cameras are top-of-the-line, high-speed surveillance cameras in a pressurized, marine-grade stainless steel casing. Providing 360° coverage of wide areas and great detail when zooming in, the highly durable, outdoor-ready cameras are ideal for marine, mining, as well as oil and gas environments. They are also applicable indoors in food, medical and clean room manufacturing facilities.

Thanks to the stainless steel (SAE 316L) casing, AXIS Q60-S cameras have high resistance to corrosion and can withstand cleaning chemicals and high-pressure steam. They are designed to be filled with nitrogen to provide benefits such as preventing internal condensation and creating a nonflammable environment.

The models comprise AXIS Q6042-S (Extended D1 resolution and 36x optical zoom), AXIS Q6044-S (HDTV 720p and 30x optical zoom), and AXIS Q6045-S Mk II (HDTV 1080p and 32x optical zoom). The robust cameras, with day/night functionality, can be automatically directed to 256 preset positions using guard tour.

AXIS Q6042-S and AXIS Q6044-S support electronic image stabilization, which delivers more useful video in windy or vibrating conditions. AXIS Q6044-S and AXIS Q6045-S Mk II also support automatic defog for clearer video in fog. All AXIS Q60-S cameras have enhanced capacity for intelligent video.

The supplied media converter switch allows AXIS Q60–S cameras to be connected in a daisy chain to the network using standard network or fiber optic cables. The media converter switch also enables the cameras to connect to external devices via input/output ports and to 12 V power.



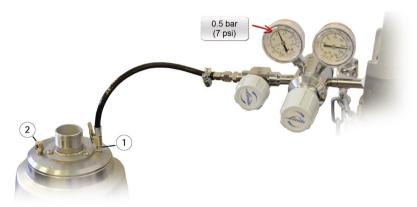
Mounting brackets are sold separately





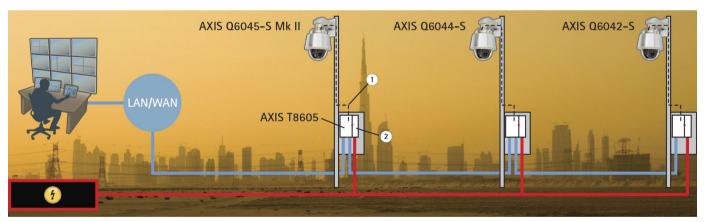
High durability

AXIS Q60-S cameras, with marine-grade (SAE 316L or V4A) stainless steel and a nylon clear dome cover, have high resistance to the corrosive effect of sea water and cleaning chemicals. They can withstand high-pressure steam cleaning. Pressurized nitrogen, meanwhile, provides benefits such as preventing external contaminants from entering, preventing internal condensation and internal corrosion, and creating a nonflammable environment. The cameras can operate in -30 °C to 50 °C (-22 °F to 122 °F). They have MIL-STD-810G 509.5, IP6K9K, IP66, IP67, NEMA 4X and NEMA 6P approvals, ensuring protection against salt fog, high pressure and steam jet cleaning, dust, rain, snow and ice. Support for shock detection enables the cameras to trigger an alarm if they have been hit.



AXIS Q60-S cameras are to be filled with nitrogen gas through the inlet valve [1] and the pressure should be above 0.2 bar (3 psi) for full protection from internal condensation. The pressure relief valve [2] will open when the pressure inside the camera reaches 0.5 bar (7 psi).

System schematic



An AXIS Q60-S connects to the supplied AXIS T8605 Media Converter Switch using an IP66-rated multi-connector cable [1], which attaches to the camera with a simple click. Through the media converter switch, the multi-connector cable enables the camera to receive power (power supply [2] not included), and send and receive data to and from external alarm devices and the network. Two SFP slots and two RJ45 connectors in the media converter switch give installers the flexibility to network the

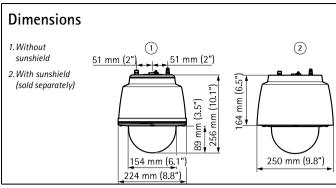
cameras cost-effectively over long distances in a daisy chain or in a ring topology for increased reliability in the event of a single point of failure. (IGMP filtering is not supported and ring topology requires a switch supporting IEEE 802.1D Spanning Tree Protocol). The RJ45 connectors can also be used for connection to complementary cameras such as a thermal camera or temporarily to a laptop to service the system locally.

Technical Specifications - AXIS Q60-S PTZ Dome Network Cameras

Models	AXIS Q6042-S 50 Hz, AXIS Q6042-S 60 Hz	System integration			
	AXIS Q6044-S 50 Hz, AXIS Q6044-S 60 Hz AXIS Q6045-S Mk II 50 Hz, AXIS Q6045-S Mk II 60 Hz	Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at		
Camera		Interface	WWW.axis.com AXIS Video Hosting System (AVHS) with One Click Comera		
lmage sensor	AXIS Q6042-S: 1/4" Progressive scan CCD AXIS Q6044-S: 1/3" Progressive scan CCD AXIS Q6045-S Mk II: 1/2.8" Progressive scan CMOS		AXIS Video Hosting System (AVHS) with One-Click Camera Connection. ONVIF Profile S, specification at www.onvif.org		
Lens	AXIS Q6042-S: f=3.3-119 mm, F1.4-4.2, Autofocus, 57.2°-1.7° ^a AXIS Q6044-S: f=4.4-132 mm, F1.4-4.6, Autofocus, 62.9°-2.2° view ^a AXIS Q6045-S Mk II: f=4.44-142.6 mm, F1.6-4.41, Autofocus, 62.8°-2.23° view ^a	Intelligent video	AXIS Camera Application Platform enabling installation of additional applications AXIS Q6045–S Mk II: Basic analytics (not to be compared wit third-party analytics): Object removed, Enter/exit detector, Fendetector, Object counter, Highlight compensation		
Day and night	Automatically removable infrared-cut filter	Event triggers	Video motion detection, Shock detection, Fan, Heater, Temperature, Manual trigger, Autotracking, Moving, PTZ preset,		
Minimum illumination	AXIS Q6042-S: Color: 0.5 lux at 30 IRE F1.4; B/W: 0.008 lux at 30 IRE F1.4		Edge storage events, AXIS Camera Application Platform AXIS Q6045–S Mk II: Enter/exit, Fence detector, Object remove		
	AXIS Q6044-S: Color: 0.2 lux at 30 IRE F1.4; B/W: 0.04 lux at 30 IRE F1.4 AXIS Q6045-S Mk II: Color: 0.3 lux at 30 IRE F1.6; B/W: 0.03 lux at 30 IRE F1.6	Event actions	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP PTZ preset, Guard tour, Autotracking, Day/night mode, Video recording to edge storage, Pre- and post-alarm video buffering		
Shutter time	AXIS Q6042-S: 1/30000 s to 1.5 s (50 Hz), 1/30000 s to 0.5 s (60 Hz) AXIS Q6044-S: 1/10000 s to 1/4 s	Built-in installation aids	Pixel counter		
	AXIS Q6045-S Mk II: 1/33000 s to 1/3 s (50 Hz),	General			
Pan/Tilt/Zoom	1/33000 s to 1/4 s (60 Hz) E-flip, 256 preset positions, Tour recording, Guard tour, Control queue, On-screen directional indicator Pan: 360° endless, 0.05°-450°/s; Tilt: 220°, 0.05°-450°/s AXIS Q6042-S: 36x optical zoom and 12x digital zoom, total 432x zoom AXIS Q6044-S: 30x optical zoom and 12x digital zoom,	Casing	IP6K9K-, IP66-, IP67-, NEMA 4X-, NEMA 6P- and IK10*-rated stainless steel casing (V4A, SAE 316L/UNS S31603/EN 1.4432), Nylon clear dome *Except valves on top		
		Memory	512 MB RAM, 128 MB Flash		
		Power	60 W powered through AXIS T8605 Media Converter Switch		
	total 360x zoom AXIS Q6045-S Mk II: 32x optical zoom and 12x digital zoom, total 384x zoom	Connectors	IP66-rated multi-connector for DC power, Ethernet 10BASE-T/100BASE-TX, input and output, including 7 m (23 ft) cable		
Video		Edge storage	SD/SDHC/SDXC slot supporting memory card up to		
Video compression	H.264 Main and Baseline Profiles (MPEG-4 Part 10/AVC) Motion JPEG		64 GB (card not included); support for recording to dedicated network-attached storage (NAS)		
Resolutions	AXIS Q6042-S: Extended D1 736x576 to 176x144 (50 Hz), Extended D1 752x480 to 176x120 (60 Hz) AXIS Q6044-S: 1280x720 (HDTV 720p) to 320x180 AXIS Q6045-S Mk II: 1920x1080 (HDTV 1080p) to 320x180	Operating conditions	-30 °C to 50 °C (-22 °F to 122 °F) Humidity 10–100% RH (condensing)		
		Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)		
Frame rate Video streaming	Up to 50/60 fps (50/60 Hz) in HDTV 720p Up to 25/30 fps (50/60 Hz) in HDTV 1080p Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth	Approvals	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1 EN 61000-6-2, EN 55024, EN 50121-4, IEC 62236-4, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A, KCC KN22 Class A, KN24, IEC/EN/UL 60950-1, IEC/EN/UL 60950-22,		
Image settings	VBR/CBR H.264 Wide dynamic range (WDR), Manual shutter time, Compression,		IEC/EN 60529 IP66, IP67, IP6K9K, NEMA 250 Type 4X, NEMA 250 Type 6P, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-78, IEC 60068-2-14, IEC 60068-2-30,		
	Color, Brightness, Sharpness, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Rotation, Text and image overlay, 32 individual 3D privacy masks, Image freeze on PTZ		IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-60, MIL-STD 810G 509.5		
		Weight	5.7 kg (12.6 lb)		
	AXIS Q6042-S: Electronic image stabilization AXIS Q6044-S: Electronic image stabilization, Automatic defog AXIS Q6045-S Mk II: Highlight compensation, Automatic defog	Included accessories	AXIS T8605 Media Converter Switch, IP66-rated multi-connector cable, Installation Guide, Installation and Management Softward CD, Windows decoder 1-user license		
Network		Video	AXIS Camera Companion (included), AXIS Camera Station		
Security	Password protection, IP address filtering, HTTPS ^b encryption, IEEE 802.1X ^b network access control, Digest authentication, User access log, Centralized certificate management	management software	and video management software from Axis' Application Development Partners (not included). For more information, see www.axis.com/products/video/software		
Supported protocols	IPv4/v6, HTTP, HTTPS ^b , SSL/TLS ^b , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP,	Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty		

More information is available at www.axis.com

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 b. 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).







AXIS 18605 Media Converter Switch								
	Data rate	RJ45: 10/100 Mbps; SFP: 100/1000 Mbps	Operating conditions	-40 °C to 75 °C (-40 °F to 167 °F)				
(3) (4)(5)(6)	Network cables	Shielded category 5 or higher; fiber	Storage conditions	-40 °C to 75 °C (-40 °F to 167 °F)				
	Connectors	2x RJ45 connectors [1] 2x SFP slots (e.g. for SFP optical fiber modules) [2] 2 configurable alarm input/output ports [3] Multi-connector cable [4] Ground screw [5] 1x power [6]	Approvals	EMC: EN 55022 Class A, EN 55024, VCCI, FCC Part 15 Class A with STP cabling, KCC Safety: IEC/EN/UL 60950-1, IEC/EN/UL 60950-22				
To the state of th	Power	12–13 V DC, min. 60 W (power in from power supply)	Installation	Bracket Mount DIN Clip (included) for a 35 mm DIN rail, compliant with EN 50022, IEC 60715, AS2756				
1 (2)	Display & indicators	Power 5x Network	Dimensions	150 x 100 x 30 mm (5.9" x 3.9" x 1.2")				

AXIS T8008 PS12 (Optional accessory)								
Power in	90–264 V AC (operating) 115–230 V AC (nominal) 47–63 Hz	Approvals	EMI Class B, EN61000 Immunity, IEC 68-2-27, IEC 68-2-6/IEC 721-3-2, UL+CSA 60950-1 2nd Edition, UL+CSA 60601-1 2nd Edition, CB Scheme 60950-1, EN 61347-1/-2-13, IP64	Operating conditions	-40 °C to 75 °C (-40 °F to 167 °F)			
		_		Storage conditions	-40 °C to 75 °C (-40 °F to 167 °F)			
Power out	12.5 V DC +/-0.2 V DC, 85 W	_		Dimensions	178 x 102 x 38 mm (7" x 4" x 1.2")			

