

AXIS P1385 Box Camera

Reliable 2 MP indoor surveillance

AXIS P1385 delivers excellent image quality in 2 MP. Lightfinder 2.0 and Forensic WDR offer true colors and great detail in challenging light or near darkness. Electronic image stabilization ensures stable images despite vibration. And scene profiles can be automatically optimized to suit specific scenarios. PoE and redundant DC power safeguard data in the event of a power outage. With a DLPU, you can run advanced features and powerful analytics on the edge. Axis Edge Vault safeguards your device and protects sensitive information from unauthorized access. Furthermore, it offers an exchangeable lens and is also designed for use outdoors in a housing.

- > Excellent image quality in HDTV 1080p
- > Lightfinder 2.0 and Forensic WDR
- > Exchangeable lens
- > Analytics with deep learning
- > Built-in cybersecurity with Axis Edge Vault







AXIS P1385 Box Camera

A		A	Outside the south and also	
Camera	1/2 8" progressive scan RGR CMOS	Audio output	Output through speaker pairing	
Image sensor	1/2.8" progressive scan RGB CMOS Pixel size 2.9 µm	Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz	
Lens	Varifocal, 2.8–13 mm, F1.4 Horizontal field of view: 121°–26°	Network Network	ID A ID CHECKS ICAMBA/ICAMBA HITTD HITTDCh HITTDCh TICh	
	Vertical field of view: 64°–15°	protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSb, HTTP/2, TLSb, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),	
Day and night	IR corrected, CS-mount lens, P-Iris control	·	UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP,NTS,	
Day and night Minimum	Automatically removable infrared-cut filter		RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog	
illumination	1080p 25/30 fps with Forensic WDR and Lightfinder 2.0: Color: 0.05 lux at 50 IRE, F1.4 B/W: 0.01 lux at 50 IRE, F1.4		(RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR	
	1080p 50/60 fps with Lightfinder 2.0: Color: 0.1 lux at 50 IRE, F1.4 B/W: 0.02 lux at 50 IRE, F1.4 1080p 25/30 fps with Forensic WDR and Lightfinder 2.0: With optional F0.9 lens Color: 0.02 lux at 50 IRE, F0.9 B/W: 0.005 lux at 50 IRE, F0.9	System integration		
		Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and	
Shutter speed	1/37000 s to 2 s with 50 Hz 1/37000 s to 2 s with 60 Hz	Video	ONVIF® Profile T, specifications at <i>onvif.org</i> Compatible with AXIS Companion, AXIS Camera Station, video	
System on chip	(SoC)	management	management software from Axis' Application Development	
Model	ARTPEC-8	systems	Partners available at axis.com/vms	
Memory	1024 MB RAM, 8192 MB Flash	Onscreen controls	Electronic image stabilization Day/night shift	
Compute capabilities	Deep learning processing unit (DLPU)		Defogging Wide dynamic range	
Video			Video streaming indicator Autofocus	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		Privacy masks Media clip	
Resolution	1920x1080 to 160x90	Edge-to-edge	Microphone pairing Speaker pairing	
Frame rate	With forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions No WDR: Up to 50/60 fps (50/60 Hz) in all resolutions	Event conditions	1 1 3	
Video streaming	Up to 20 unique and configurable video streams ^a Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator			
Signal-to-noise ratio	>55 dB			
WDR	Forensic WDR: Up to 120 dB depending on scene	Event actions	Audio clips: play, stop	
Multi-view streaming	Up to 8 individually cropped out view areas		Day-night mode I/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: record, record while the rule is active SNMP traps: send, send while the rule is active Status LED: flash, flash while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email WDR mode	
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)			
Image settings	Contrast, brightness, sharpness, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay,dynamic text and image overlay, privacy masks, polygon privacy mask, target aperture Scene profiles: forensic, vivid, traffic overview			
Image processing	Axis Zipstream, Forensic WDR, Lightfinder 2.0	Built-in installation aids	Leveling assistant, remote back focus	
Pan/Tilt/Zoom	Digital PTZ, preset positions	Analytics	Included: AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy	
,,	Preset position tour, control queue, on-screen directional indicator Guard tour (max 100)	Applications		
Audio	Guaru tour (IIIaA 100)		hield ^c , AXIS Video Motion Detection supported:	
Audio features	Automatic gain control Speaker pairing		Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Audio streaming	Configurable duplex: One-way (simplex) Two-way (half duplex, full duplex)	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)	
Audio input	Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input Built-in microphone (can be disabled)		Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area Up to 10 scenarios	

	Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event			
AXIS Scene Metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: confidence, position			
Approvals				
Product markings	UL/cUL, UKCA, CE, KC, EAC, VCCI, RCM			
EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-6-1, EN 61000-6-2 Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A			
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IS 13252			
Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78			
Network	NIST SP500-267, IPv6 USGv6			
Cybersecurity	ETSI EN 303 645, FIPS 140			
Cybersecurity				
Edge security	Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot			
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering			
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity			
General				
Casing	Aluminum casing Weathershield with black anti-glare coating Color: white NCS S 1002-B, black NCS S 9000-N			
Mounting	1/4"-20 UNC tripod screw thread Camera stand included			
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 2.97 W, max 9.31 W 10–28 V DC, typical 3.15 W, max 7.76 W			
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE I/O: 6-pin 2.5 mm terminal block for 2 supervised alarm inputs and 2 outputs (12 V DC output, max load 50 mA) Audio: 3.5 mm mic/line in Serial communication: RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block			

terminal block

Power: DC input, terminal block Lens: i-CS connector (compatible with P-Iris and DC-iris) AXIS T92G20 connector Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com Operating conditions -10 °C to 55 °C (14 °F to 131 °F) Humidity 10–85% RH (non-condensing) Storage conditions -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing) Dimensions For the overall product dimensions, see the dimension drawing in this datasheet. Weight 775 g (1.7 lb) including stand 480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black				
Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com Operating conditions -10 °C to 55 °C (14 °F to 131 °F) Humidity 10-85% RH (non-condensing) Storage conditions -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing) Dimensions For the overall product dimensions, see the dimension drawing in this datasheet. Weight 775 g (1.7 lb) including stand 480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black		Lens: i-CS connector (compatible with P-Iris and DC-iris)		
conditions Humidity 10–85% RH (non-condensing) Storage conditions -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing) Dimensions For the overall product dimensions, see the dimension drawing in this datasheet. Weight 775 g (1.7 lb) including stand 480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black	Storage	Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)		
conditions Humidity 5–95% RH (non-condensing) Dimensions For the overall product dimensions, see the dimension drawing in this datasheet. Weight 775 g (1.7 lb) including stand 480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black				
in this datasheet. Weight 775 g (1.7 lb) including stand 480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black				
480 g (1.1 lb) for camera only Box content Camera, installation guide, terminal block connectors, owner authentication key, AXIS T91B21 Stand Black	Dimensions			
authentication key, AXIS T91B21 Stand Black	Weight			
O () I AVICARI I AVICARI	Box content			
accessories AXIS Microphones, AXIS Midspans accessories AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, go to axis.com/products/axis- p1385#accessories	Optional accessories	AXIS Surveillance Cards For more accessories, go to axis.com/products/axis-		
·	System tools	AXIS Site Designer, AXIS Device Manager, AXIS Device Manager Extend, product selector, accessory selector, lens calculator		
Languages English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese	Languages	Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai,		
Warranty 5-year warranty, see axis.com/warranty	Warranty	5-year warranty, see axis.com/warranty		
Part numbers Available at axis.com/products/axis-p1385#part-numbers	Part numbers	Available at axis.com/products/axis-p1385#part-numbers		
Sustainability	Sustainability			
Substance control PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu		ROHS in accordance with EU ROHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID,		
Materials Renewable carbon-based plastic content: 3% (bio-based) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability	Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to		
responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobal compact.org		Axis Communications is a signatory of the UN Global Compact,		

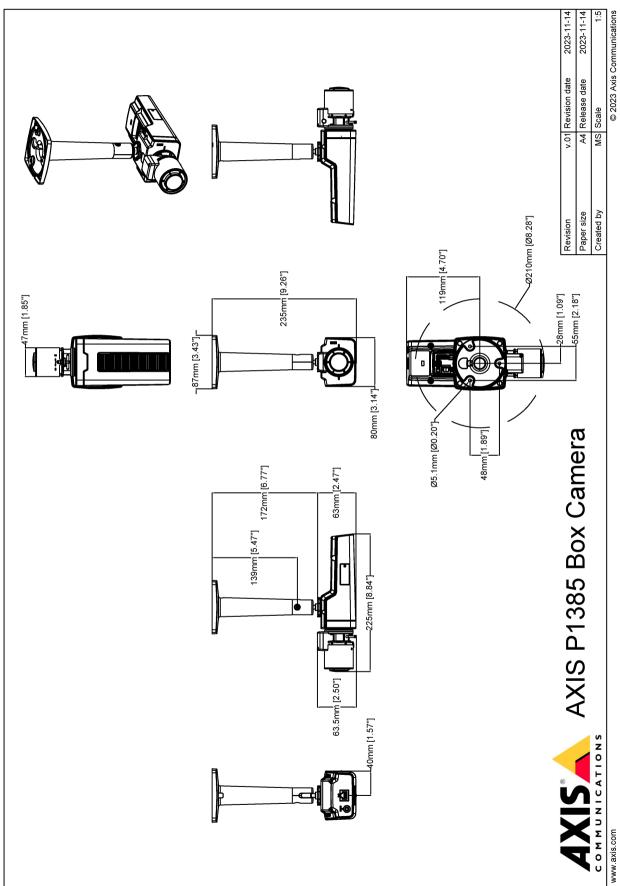
<sup>a. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.
b. 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).
c. Available for download</sup>

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	38.8 m (127.1 ft)	168.4 m (522.6 ft)
Observe	63 px/m (19 px/ft)	15.4 m (50.5 ft)	66.8 m (219.3 ft)
Recognize	125 px/m (38 px/ft)	7.7 m (25.4 ft)	33.7 m (110.5 ft)
Identify	250 px/m (76 px/ft)	3.9 m (12.7 ft)	16.8 m (55.3 ft)

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

Dimension drawing



www.cxis.com T10197813/EN/M6.2/2406

Highlighted capabilities

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to Al-based algorithms and behavioral conditions, it analyzes the scene and their spatial behavior within – all tailored to your specific needs. Scalable and edge-based, it requires minimum effort to set up and supports various scenarios running simultaneously.

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.

Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

For more information, see axis.com/glossary

