AXIS W102 Body Worn Camera

Robust and reliable for operational agility

AXIS W102 Body Worn Camera empowers and protects officers and security guards. An updated hardware platform and image sensor minimize motion blur and maximize light sensitivity. Carefully placed digital microphones clarify sound and decrease wind noise. Up to 120 seconds of buffering and Bluetooth® beacons that can trigger nearby cameras help capture incidents in their entirety from every angle. Support for AXIS Body Worn Live allows live streaming via Wi-Fi® or mobile hotspot. Furthermore, our hardware-based cybersecurity platform and multiple layers of encryption safeguard the device and protect sensitive information from unauthorized access.

- > Always sharp images
- > Excellent sound quality
- > Long battery life
- > Supports live streaming
- > Multiple layers of encryption

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Camera

Image sensor	1/2.9" progressive scan RGB CMOS Sensitivity: 0.1 lux
Lens	Focal length, 2.3 mm Horizontal field of view: 137° Vertical field of view: 76° Fixed iris, F2.1
Day and night	Automatic IR-cut filter
Shutter speed	1/20000 s to 1/25 s with 50 Hz 1/20000 s to 1/30 s with 60 Hz

System on chip (SoC)

Model	S6L
Memory	1024 MB RAM, 512 MB Flash

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) High Profile
Resolution	1920x1080, 1280x720
Frame rate	25 fps at 50 Hz 30 fps at 60 Hz
Video streaming	Axis Zipstream for body worn
WDR	WDR
Image settings	Electronic image stabilization (720p), barrel distortion correction

Audio

Audio features	Voice enhancer, noise cancellation
Audio input	Built-in dual microphones (can be disabled)
Audio encoding	AAC-LC **One channel**: 48 kHz, 128 kbps **Two channels (optimized for post-processing mode)**: 48 kHz, 2x128 kbps

Approvals

Product markings	UL/cUL, CE, KC, VCCI, RCM, BSMI, MIC, WEEE, FCC, ICES, CONATEL, ANATEL, ICASA, NCC, ENACOM, BIS, IFT, NOM, SRRC
Supply chain	TAA compliant
EMC	CISPR 35, CISPR 32 Class B, EN 55035, EN 55032 Class B, EN 61000-6-1, EN 61000-6-2 **Australia/New Zealand:** RCM AS/NZS CISPR 32 Class B **Canada:** ICES-3(B)/NMB-3(B) **Japan:** VCCI Class B **Korea:** KS C 9835, KS C 9832 Class B **USA:** FCC Part 15 Subpart B Class B
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, EN 62311
Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-78, IEC/EN 60529 IP67, MIL-STD-810H (Method 501.7, 503.7, 505.7, 509.7, 512.6, 516.8)
Wireless	EN 300328, EN 300440, EN 301893, EN 303413, EN 301489-1, EN 301489-17, FCC Part 15 Subpart C, RSS-247
Cybersecurity	ETSI EN 303 645

Cybersecurity

Edge security	**Software:** Signed OS, brute force delay protection, digest authentication, password protection **Hardware:** Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[a], IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a]
Documentation	Axis body worn cameras – system security white paper, available at *axis.com/learning/white-papers* *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	IP67-rated Plastic casing Drop tested up to 2 m Color: black NCS S 9000-N, white NCS S 1002-B
Mounting	Klick Fast™ System
Battery	Li-ion, 3600 mAh Up to 14.1 hours operating time in 720p[b] Up to 14 hours operating time in 1080p[b]
Connectors	Pogo pin pads USB (for Axis accessories and charging using a cable with a USB Type-C® connector)
Storage	64 GB non-volatile memory, up to 30 hours of recorded video AES256 encryption standard
Throughput	Camera to system controller: 100 Mbit/s
Recording	Configurable audio and video prebuffer 0, 15, 30, 60, 90, and 120 seconds
Positioning system	GPS, GLONASS, Galileo, BeiDou
Location	Track, start and end
Sensor	3-axis gyroscope and accelerometer, compass
User interface	Color IPS TFT display, 0.96 inch, 160x80 pixels Status indicators Audio and vibration feedback
Wireless interface	Bluetooth® 5.1 Low Energy and Classic Wi-Fi® 5 a/b/g/n/ac @ 2.4 GHz, 5 GHz
Operating conditions	Temperature: -20 °C to 55 °C (-4 °F to 131 °F) Humidity: 10–100% RH (condensing)
Charging conditions	Temperature: 0 °C to 35 °C (32 °F to 95 °F) Charging time: <6 hours in 0–10 °C (32–50 °F) <4 hours in 10–30 °C (50–86 °F) <5 hours in 30–35 °C (86–95 °F) Humidity: 5–95% RH (non-condensing)
Storage conditions	Temperature (< 3 months): -20 °C to 45 °C (-4 °F to 113 °F) Temperature (> 3 months): 23 °C to 27 °C (73 °F to 81 °F) Optimal temperature: 25 °C (77 °F) Humidity: 5–95% RH (non-condensing)
Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
Weight	178 g (0.39 lb)
Optional accessories	Klick Fast™ System for Body worn camera mounts AXIS TW1200 Body Worn Mini Bullet Sensor AXIS TW1201 Body Worn Mini Cube Sensor AXIS TW1906 Battery Replacement AXIS Body Worn Assistant app for Android, iOS For more accessories, see *axis.com/bodyworn*
Warranty	The product, including the battery, is subject to a 3-year warranty period, in accordance with the terms and conditions stated in Axis 5 Year Limited Hardware Warranty available on *axis.com/warranty* ("3-year Warranty Period"). In addition to the terms and conditions in the Axis 5 Year Limited Hardware Warranty, the warranty doesn't cover battery degradation if the battery has undergone more than 500 charge cycles, if the camera has been used or stored in temperatures outside the specifications in the datasheet, or if the instructions in the product's user manual haven't been followed. Replacement of the battery during the 3-year Warranty Period carried out by any other party than Axis (or an RMA partner on behalf of Axis) will void the main item's warranty. Contact Axis Support or your reseller for battery- or service-related matters.
Part numbers	Available at *axis.com/products/axis-w102-body-worn-camera#part-numbers*

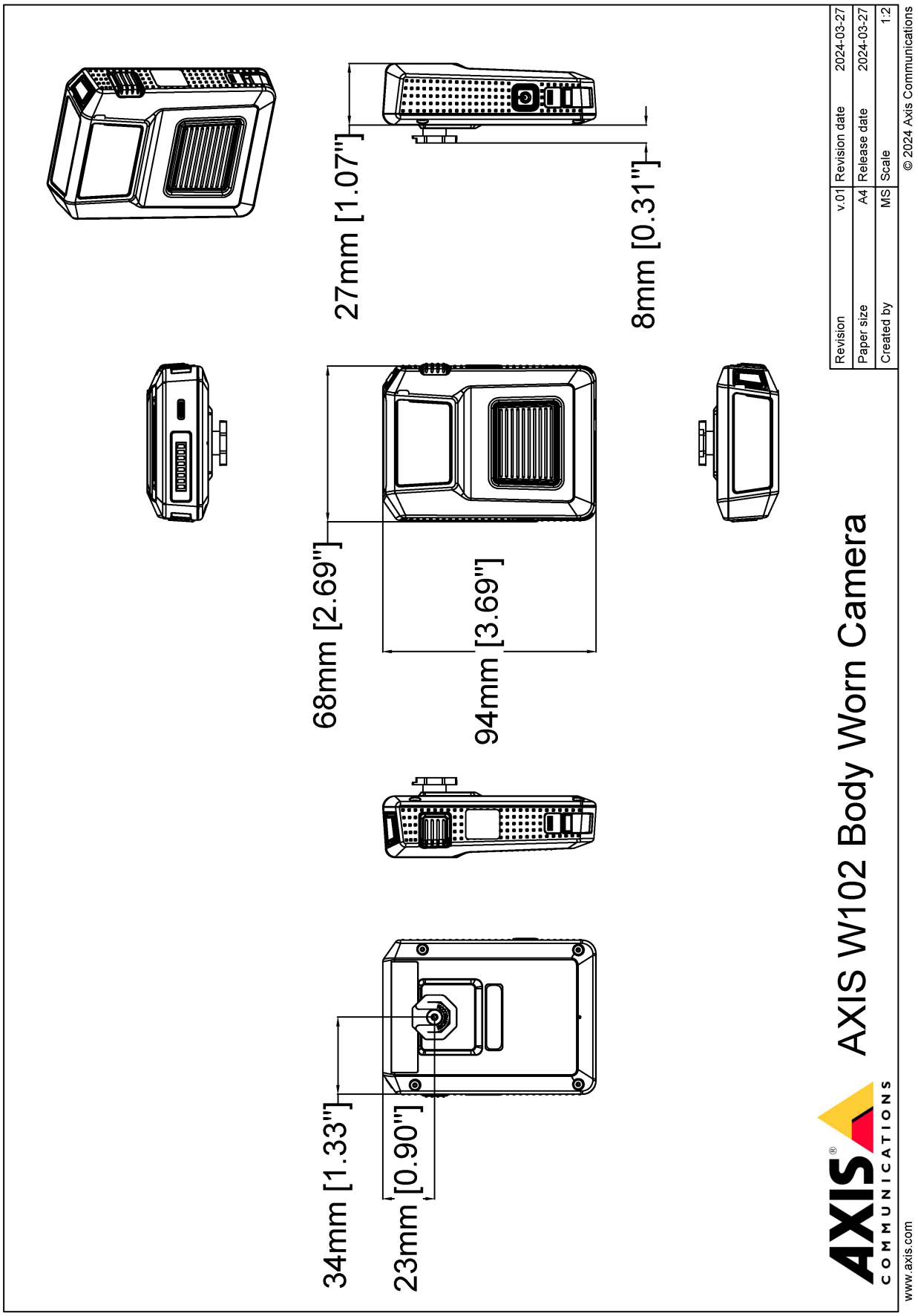
Sustainability

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*
Materials	Renewable carbon-based plastic content: 70% (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*
Environmental responsibility	*axis.com/environmental-responsibility* Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

a. *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).*
b. *With prebuffer, and fewer than 500 charge cycles.*

Dimension drawing



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