AXIS W120 Body Worn Camera

For live streaming, and tracking – your way

AXIS W120 Body Worn Camera is a fully connected wearable camera featuring built-in LTE/4G, Wi-Fi® and Bluetooth®, which enables direct streaming with AXIS Body Worn Live. It delivers clear audio with noise suppression and exceptional image quality. Electronic image stabilization guarantees the highest possible forensic value. The camera also delivers detailed status information via its LCD screen. AXIS W120 is robust, easy-to-use and features the KlickFast mounting system. It offers up to 15 hours of battery time and can be charged on-the-go with any USB-C® charger. Recording can be activated automatically, and the location of the camera is continuously recorded thanks to the built-in GNSS receiver.

> **Live streaming via LTE/4G**

> **Location tracking**

> **Always sharp images**

> **Excellent sound quality**

> **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
Shutter speed	1/20000 s to 1/25 s with 50 Hz 1/20000 s to 1/30 s with 60 Hz

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
WDR	WDR
Image settings	Electronic image stabilization (720p), barrel distortion correction
Video streaming	Axis Zipstream for body worn

Audio

Audio encoding	AAC-LC **One channel:** 48 kHz, 128 kbps **Two channels (optimized for post-processing mode):** 48 kHz, 2x128 kbps
Audio input/output	Built-in dual microphones
Functionality	Voice enhancement

Approvals

Supply chain	TAA compliant
EMC	EN 55032 Class B, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, **Canada:** ICES-3(B)/NMB-3(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, RCM AS/NZS 62368.1:2018, IS 13252
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	AS/CA S042.1, AS/CA S042.4, AS/NZS 4268, EN 50566, EN 300328, EN 300440, EN 301893, EN 303413, EN 301489-1, EN 301908-1, EN 301489-17, EN 301489-19, EN 301489-52, EN 301908-13, EN 62209-2, FCC Part 2 Subpart J, FCC Part 15 Subpart C, FCC Part 15 Subpart E, FCC Part 22 Subpart H, FCC Part 24 Subpart E, FCC Part 27, FCC Part 90, IFT, RSS-102, RSS-130, RSS-132, RSS-133, RSS-139, RSS-140, RSS-247, RSS-Gen, WPC
Cybersecurity	ETSI EN 303 645

Cybersecurity

Edge security	**Software:** Signed OS, AES-XTS-Plain64 256bit encryption **Hardware:** Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL6+ certified hardware protection of cryptographic operations and keys). CJIS compliant encrypted internal storage (AES256)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), 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

Battery	Li-ion, 3600 mAh Up to 15 hours operating time in 720p[b] Up to 13.5 hours operating time in 1080p[b] Up to 29 hours in standby mode[c]
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 Configurable audio and video postbuffer 0, 10, 30, and 60 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 **LTE (US):** Bands B2, B4, B5, B12, B13, B14, B25, B26, B66, B71 CAT4 **LTE (EU):** Bands B1, B3, B7, B8, B20, B28 CAT4
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
Connectors	Pogo pin pads USB (for Axis accessories and charging using a cable with a USB Type-C® connector)
SIM card	Nano-SIM (4FF)
Operating conditions	Temperature: -20 °C to 50 °C (-4 °F to 122 °F) Maximum temperature (intermittent, <1 hour): 55 °C (131 °F) Humidity: 10–100% RH (condensing)
Charging conditions	Temperature: 0 °C to 40 °C (32 °F to 104 °F) Charging time: <6.5 hours in 0–15 °C (32–59 °F) <4 hours in 15–30 °C (59–86 °F) <5.5 hours in 30–40 °C (86–104 °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	200 g (0.44 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.
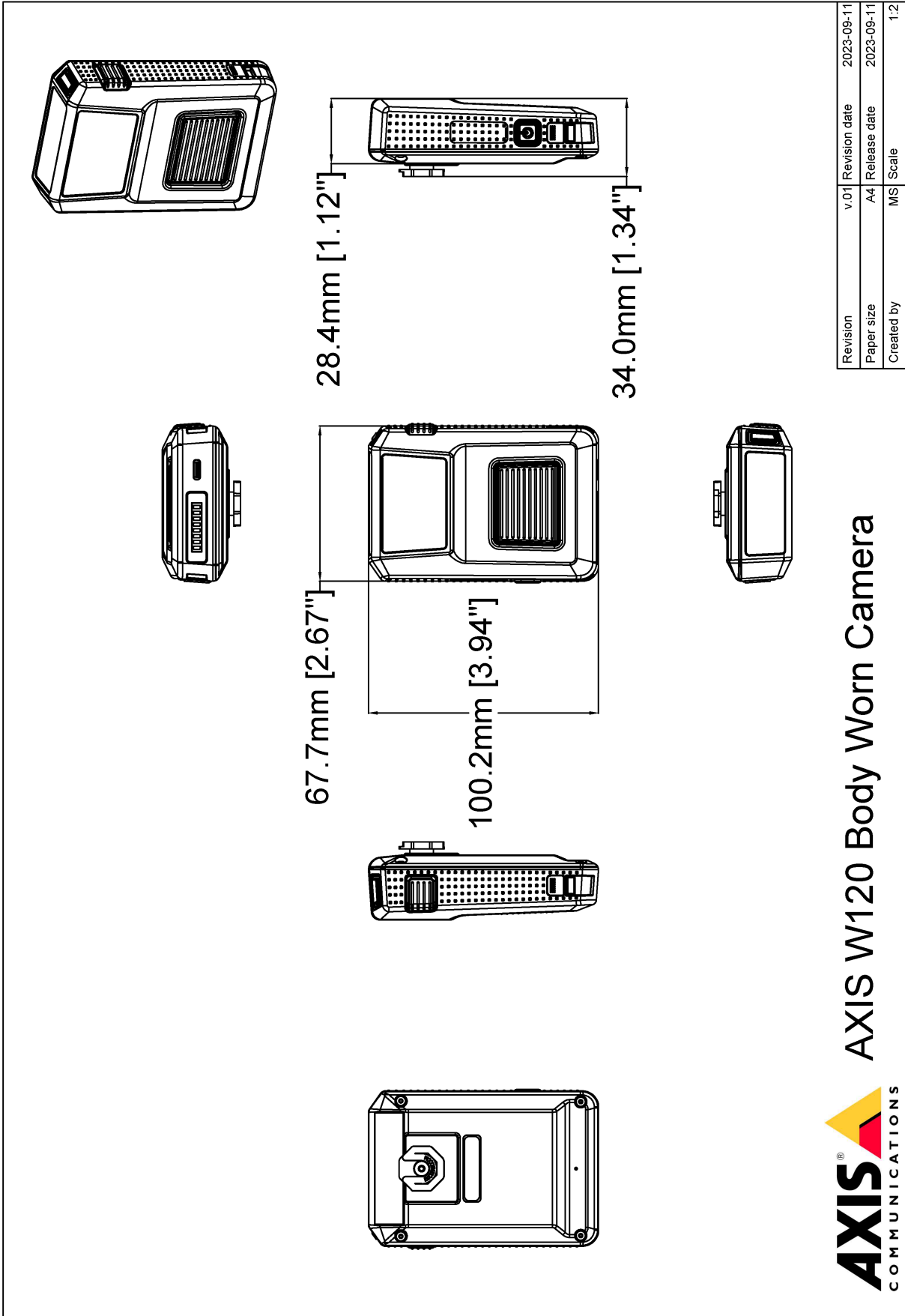
Sustainability	
Substance control	RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu*

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 pre-buffer, and fewer than 500 charge cycles.*
c. *Without pre-buffer, and including 1 hour of recording per charge in 720p, and fewer than 500 charge cycles.*

Dimension drawing

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28.4mm [1.12"]

34.0mm [1.34"]

67.7mm [2.67"]

100.2mm [3.94"]

Revision	v.01	Revision date	2023-09-11
Paper size	A4	Release date	2023-09-11
Created by	MS	Scale	1:2

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