

## 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](#)



# AXIS W120 Body Worn Camera

## 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

### Encoding

AAC-LC  
One channel: 48 kHz, 128 kbps  
Two channels (optimized for post-processing mode):  
48 kHz, 2x128 kbps

### 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

### 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, BSI IT Security Label, EN 18031-1,  
EN 18031-2

## 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 802.1AR, HTTPS/HSTS<sup>1</sup>, TLS v1.2/v1.3<sup>1</sup>  
WPA/WPA2-PSK

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## Documentation

Axis body worn cameras – system security white paper, available at [axis.com/learning/white-papers](https://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](https://axis.com/support/cybersecurity/resources)  
To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

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## General

### Battery

Li-ion, 3600 mAh  
Up to 15 hours operating time in 720p<sup>2</sup>  
Up to 13.5 hours operating time in 1080p<sup>2</sup>  
Up to 29 hours in standby mode<sup>3</sup>

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### Storage

128 GB non-volatile memory, up to 45 hours of recorded video  
AES256 encryption standard

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### Throughput

Camera to system controller: 100 Mbit/s

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### 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

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### Positioning system

GPS, GLONASS, Galileo, BeiDou

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### Location

Track, start and end

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### Sensor

3-axis digital accelerometer and 3-axis digital gyroscope, compass

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### User interface

Color IPS TFT display, 0.96 inch, 160x80 pixels  
Status indicators  
Audio and vibration feedback

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## Wireless interface

Bluetooth® 5.1 Low Energy and Classic  
Bluetooth profile: None  
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

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## Casing

IP67-rated  
Plastic casing  
Drop tested up to 2 m

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## Color

Black NCS S 9000-N  
White NCS S 1002-B

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## Mounting

Klick Fast™ System

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## Connectors

Pogo pin pads  
USB (for Axis accessories and charging using a cable with a USB Type-C® connector), supported USB class: Vendor specific

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## SIM card

Nano-SIM (4FF)

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## 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)

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## 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)

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## 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)

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1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).
2. With pre-buffer, and fewer than 500 charge cycles.
3. Without pre-buffer, and including 1 hour of recording per charge in 720p, and fewer than 500 charge cycles.

## Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

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## Weight

200 g (0.44 lb)

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## 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](https://axis.com/bodyworn)

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## 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](https://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](https://echa.europa.eu)

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### Environmental responsibility

[axis.com/environmental-responsibility](https://axis.com/environmental-responsibility)  
Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](https://unglobalcompact.org)

### Dimension drawing

