

# 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**



# AXIS W102 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

## 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

### Features

Voice enhancer, noise cancellation

### Input

Built-in dual microphones (can be disabled)

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

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

### Documentation

Axis body worn cameras – system security white paper, available at [axis.com/learning/white-papers](http://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](http://axis.com/support/cybersecurity/resources)  
To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](http://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 15 hours operating time in 720p<sup>2</sup>  
Up to 14 hours operating time in 1080p<sup>2</sup>  
Up to 29 hours in standby mode<sup>3</sup>

### Connectors

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

### 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  
Bluetooth profile: None  
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)

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([easy@cryptsoft.com](mailto:easy@cryptsoft.com)).

2. With prebuffer, 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.

## 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](http://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](http://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](http://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](http://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](http://axis.com/about-axis/sustainability)

## Environmental responsibility

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

## Dimension drawing



