

Tech specs

BulletCam HL (8 Mp/2.8 mm)

Wired AI-powered security IP camera with a 110° viewing angle, hybrid illumination, TrueWDR, microphone, and PoE/12 V. For outdoor and indoor use.



Camera

Image sensor

8 MP CMOS, 1/2.7" type

Lens focal length

2.8 mm

Maximum aperture

f/1.6

Lens iris type

fixed

Lens focal type

fixed

Field of view

horizontal: 110°

vertical: 56°

diagonal: 126°

Maximum illumination distance

- white LED: up to 50 m
- IR LED: up to 50 m

Intelligent lighting control automatically adjusts the intensity of IR and white LEDs in real time to prevent overexposure. This ensures clear visibility of objects at varying distances – whether close to or far from the camera – in low-light conditions.

Video

Resolution

- 8 MP (3840 × 2160)
- 6 MP (3072 × 1728)
- 5 MP (2592 × 1944)
- 5 MP (2944 × 1656)
- 5 MP (2880 × 1620)
- 4 MP (2560 × 1440)
- 3 MP (2304 × 1296)
- 2 MP (1920 × 1080)
- 0.6 MP (1024 × 576)

Frame rate

up to 20 fps

Image rotation

0°, 180°

Video codec

H.265, H.264

Dynamic range

True WDR

Storage

microSD

Ajax NVR

The camera supports microSD up to 256 GB. The memory card should be Class V30 or faster. The card is not included in the complete set.

Audio

Built-in microphone

With the corresponding settings, the camera can record audio at the scene.

Audio codec

G711-ULAW, G711-ALAW, G726, G722

Intelligent video analytics

Motion detection

The camera detects motion using software image frame analysis.

AI object detection

People

Pets

Vehicles

Network

Port

1 × RJ-45 self-adaptive Ethernet (10/100 Mbps)

Protocol

HTTP, HTTPS, TCP/IP, IPv4, IPv6, SNMP, RTSP, UDP, DHCP, DNS, DDNS

Interoperability

ONVIF (Profile S/T*)

Ajax cameras and NVRs can be integrated into third-party video management systems (VMS).

* Profile T is supported for basic streaming and configuration. Advanced features such as metadata, event handling, or edge recording may not be available.

Learn more 

Key features

Video protocol

JetSparrow

Fast and encrypted peer-to-peer video protocol developed by Ajax Systems.

Visual verification of Ajax alarms

The system allows you to configure a scenario according to which Ajax detectors trigger selected cameras to start recording. The recorded event is immediately delivered to the mobile or desktop monitoring app.

Privacy

Advanced privacy controls ensure a high level of personal data protection. All access rights – including those for mobile app users, installers, and monitoring company operators via Ajax PRO Desktop – are fully configurable by the device owner. This guarantees that only authorized parties can access video streams, event history, or device settings, in accordance with the owner's preferences.

Sabotage protection

mTLS

Encrypted connection for data protection.

Authentication

via Ajax Cloud

Secure Boot

Protection against firmware spoofing.

OTA signature verification

Secure automatic firmware update.

Power supply

PoE standard

802.3at/af

PoE power consumption

- maximum: up to 8.1 W
- average: up to 7.0 W

Power supply unit

12 V \pm 20%, 1 A

12 V DC power consumption

- maximum: up to 7.0 W
 - average: up to 6.0 W
-

Enclosure

Dimensions

198 × 76 × 76 mm

Weight

550 g

Operating temperature range

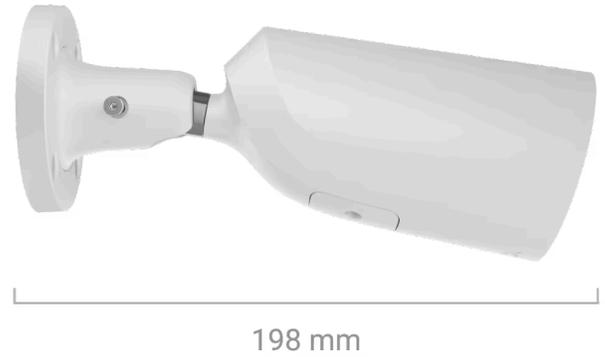
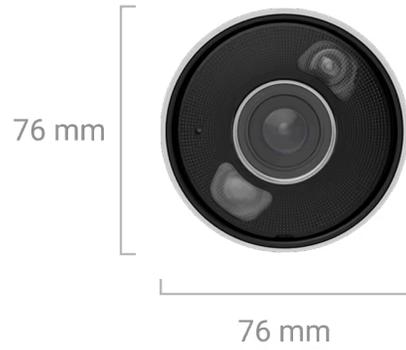
from -30 °C to +60 °C

Operating humidity

up to 90%

Protection class

IP65



Color

Black

White



Complete set

BulletCam HL (8 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

Certification and compliance with standards



BulletCam HL (8 Mp/2.8 mm)



Additional information

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[User manual](#)

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Warranty

24 months

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