

Products ▾

Assemble kit

BulletCam HL

More ▾

## 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 $\overline{=}$   $\pm$  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

### Compliance with standards

[Learn more](#) >

### User manual

[Learn more](#) >

### Warranty

24 months

[Learn more](#) >

### Subscribe

Subscribe to our emails about secure life. No spam.

[Subscribe](#)

### Request extra help

✉ [support@ajax.systems](mailto:support@ajax.systems)

🗉 [@AjaxSystemsSupport\\_Bot](#)

💬 [Send a request](#)



Rating 4.7

**4,000,000**

people worldwide under Ajax protection

💡 [Suggest a feature](#)



## Products

Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

## Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Upgrades and retrofits

Why Ajax

How it works

## Company

Blog

About us

## Software

For users

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios



Available on  
**App Store**



Available on  
**Google Play**

## Support

Manuals and articles

Compliance with standards

## Tools

Ajax device compatibility

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

## Connecting to CMS

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

## For partners

For partners

Ajax Academy

[Press page](#)

[Partner Portal](#)

[Events](#)

[Career](#)

[Ajax Next](#)

[Students at CES 2026](#)

[Reviews and feedback](#)

 [Eesti](#) [Privacy policy](#) [Report a vulnerability](#) [GDPR White Paper](#) [NDAA Statement](#) [Cookie policy](#) [Anti-Spam Policy](#)

[End user agreement](#) [Warranty](#)

© 2025 AJAX SYSTEMS CH. All rights reserved