

## Tech specs

## TurretCam 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.



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### 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 (2944 × 1656)
- 5 MP (2880 × 1620)
- 5 MP (2592 × 1944)
- 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

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.

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## Audio

### Built-in microphone

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

### Audio codec

G711-ULAW, G711-ALAW, G726, G722

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## 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 

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## 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.

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## 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.

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## Power supply

### PoE standard

802.3at/af

### PoE power consumption

- maximum: up to 8.3 W
- average: up to 7.7 W

### Power supply unit

12 V $\pm$  20%, 1 A

### 12 V DC power consumption

- maximum: up to 7.1 W
  - average: up to 6.6 W
- 

## Enclosure

## Dimensions

103 × 98 × 98 mm

## Weight

475 g

## Operating temperature range

from -30 °C to +60 °C

## Operating humidity

up to 90%

## Protection class

IP65



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## Color

Black



White



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## Complete set

TurretCam HL (8 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

## Certification and compliance with standards



TurretCam HL (8 Mp/2.8 mm)



## Additional information

**Compliance with standards**

Learn more 

**User manual**

Learn more 

**Warranty**

24 months

[Learn more](#) 

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## Request extra help

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 **Trustpilot**



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](#)

## Software

[For users](#)

[Ajax PRO: Tool for Engineers](#)

[Ajax Desktop](#)

[Ajax PRO Desktop](#)

[Ajax Translator PRO](#)

[Ajax Cloud Signaling](#)

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

Press page

Events

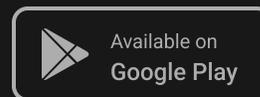
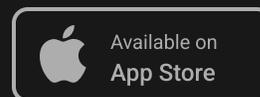
Career

Ajax Next

Students at CES 2026

Reviews and feedback

Scenarios



## 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

Partner Portal

 [România](#) [Privacy policy](#) [Report a vulnerability](#) [GDPR White Paper](#) [NDAA Statement](#) [Cookie policy](#) [Anti-Spam Policy](#)  
[End user agreement](#) [Warranty](#)

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