

## Tech specs

BASELINE

# TurretCam HL (5 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

5 MP CMOS, 1/2.8" 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: 58°

diagonal: 131°

## DORI distance

- Detection: 65 m
- Observation: 26 m
- Recognition: 13 m
- Identification: 6.5 m

## 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.

## Minimum illumination

color: 0.005 lx

B/W: 0 lx

## Signal-to-noise ratio (SNR)

more than 52 dB

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## Video

### Resolution

- 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 25 FPS

### Image rotation

0°, 180°

### Video codec

H.265, H.264

### Dynamic range

120 dB (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

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## 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 7.2 W
- average: up to 6.9 W

## Power supply unit

12 V $\overline{=}$   $\pm$  20%, 1 A

## 12 V DC power consumption

- maximum: up to 6.3 W
- average: up to 6 W

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## 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, IK08



## Color

Black



White



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## Complete set

TurretCam HL (5 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

## Certification and compliance with standards



TurretCam HL (5 Mp/2.8 mm)



## Additional information



## Compliance with standards

[Learn more](#) >

## Warranty

24 months

[Learn more](#) >

## User manual

[Learn more](#) >

### Products

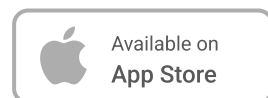
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

### Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Upgrades and retrofits
- Why Ajax
- How it works

### Software

- For users
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax Translator PRO
- Ajax Cloud Signaling
- 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

### Subscribe

Subscribe to our emails about secure life. No spam.

[Subscribe](#)

### Request extra help

- [support@ajax.systems](mailto:support@ajax.systems)
- [@AjaxSystemsSupport\\_Bot](https://t.me/AjaxSystemsSupport_Bot)
- [Send a request](#)



Rating 4.8

4,000,000

people worldwide under Ajax protection

[Suggest a feature](#)



Switches and outlets  
configurator

Fibra power supply calculator

All web tools

## Monitoring solutions and integrations

Intrusion alarm monitoring

Video monitoring and visual  
alarm verification

Audio alarm verification

## Company

Blog

About us

Press page

Events

Career

Ajax Next

Students at CES 2026


Reviews and feedback

## For partners

For partners

Ajax Academy

Partner Portal

 Hrvatska   Privacy policy   Report a vulnerability   GDPR White Paper   NDAA Statement   Cookie policy   Anti-Spam Policy

End user agreement   Warranty

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