

Tech specs

BASELINE

TurretCam (8 Mp/2.8 mm)

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



Camera

Image sensor

8 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: 100–110°

vertical: 50–60°

diagonal: 125–135°

DORI distance

- Detection: 90 m
- Observation: 36 m
- Recognition: 18 m
- Identification: 9 m

Maximum illumination distance

- IR LED: up to 50 m

Intelligent lighting control automatically adjusts the intensity of IR 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.

Signal-to-noise ratio (SNR)

more than 52 dB

Video

Resolution

- 8 MP (3840 × 2160)
- 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 (Linear)

up to 15 fps (HDR)

Image rotation

0°, 180°

Video codec

H.265, H.264

Dynamic range

120 dB (True WDR)

Storage

microSD

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

Smart IR illumination

up to 50 m

Automatic adjustment of intensity in real time to avoid overexposure. This allows you to see objects that are far away or too close to the camera in low light conditions.

Network

Port

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

Protocol

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

ONVIF®

conformant with ONVIF® Profile S

The device implements ONVIF® H.265 (HEVC) encoding, transmission of motion detection and AI recognition events, control over Wide Dynamic Range (WDR), and other image settings — not ONVIF® profile or add-on conformant.

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, 36–57 V, Class 3

Average power consumption

8.5 W

Power supply unit

12 V $\overline{=}$, 1 A

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

IP66, IK08



98 mm

Color

Black



White



Complete set

TurretCam (8 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

Certification and compliance with standards



TurretCam (8 Mp/2.8 mm)



Additional information

Compliance with standards

User manual

Learn more >

Learn more >

Warranty

24 months

Learn more >

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

+447451279411

support@ajax.systems

@AjaxSystemsSupport_Bot

Ask a question



Rating 4.8

4,500,000

people worldwide under Ajax protection

Suggest a feature



Products

Intrusion protection

Video surveillance

Software

Ajax Security System

Ajax PRO: Tool for Engineers

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

Video surveillance solution

Integration with Yale smart locks

Upgrades and retrofits

Why Ajax

How it works

Company

Blog

About us

Press page

Ajax Desktop

Ajax PRO Desktop

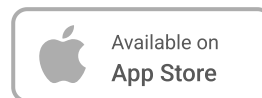
Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Support

Manuals and articles

Compliance with standards

Tools

Ajax kit configurator

Ajax device compatibility

CMS software compatibility

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

Monitoring solutions and integrations

Intrusion alarm monitoring

Video monitoring and visual alarm verification

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