Tech specs

BASELINE

DomeCam Mini HL (8 Mp/2.8 mm)

Wired AI-powered security IP camera with a 110° viewing angle, hybrid illumination, True WDR, 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: 100–110°

vertical: 50–60°

diagonal: 125–135°

DORI distance

- Detection: 295 ft
- Observation: 118 ft
- Recognition: 59 ft
- Identification: 29 ft

Maximum illumination distance

- white LED: up to 49 ft
- IR LED: up to 49 ft

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

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

120 dB (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, RTSP, UDP, DHCP, DNS

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 8.2 W
- average: up to 7.7 W

External power supply unit

12 V⎓ ± 20%, 1 A

12 V DC power consumption

- maximum: up to 7.1 W
- average: up to 6.7 W

Enclosure

Dimensions

4.49" × 4.49" × 2.64"

Weight

15.17 oz

Operating temperature range

from −22 °F to 140 °F

Operating humidity

up to 90%

Protection class

IP65, IK08

Color

Black

White

Complete set

DomeCam Mini HL (8 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

Certification and compliance with standards

DomeCam Mini HL (8 Mp/2.8 mm)

Additional information

Compliance with standards

User manual

Learn more

Learn more

Warranty

24 months

Learn more

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Subscribe to our emails about secure life. No spam.

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support@ajax.systems

@AjaxSystemsSupport_Bot

Send a request

Trustpilot

Rating 4.8

4,500,000

people worldwide under Ajax protection

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Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios

Available on App Store

Available on Google Play

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

How it works

Support

Manuals and articles

Maintenance and repair

Compliance with standards

Tools

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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For partners

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Partner Portal

United States Privacy policy Report a vulnerability GDPR White Paper NDAA Statement

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