

Technical Specifications

Video stream

Camera

4 MP CMOS sensor

Resolution

up to 2688 × 1520 px

Camera viewing angles

horizontal: 155°

vertical: 90°

Video protocol

JetSparrow

Fast and encrypted peer-to-peer video protocol developed by Ajax Systems.

Storage options

NVR

Ajax Cloud Storage

Video codec

H.264

Dynamic range

HDR

Improves the accuracy of detail in bright and dark scenes.

Communication channel

Wi-Fi

802.11 b/g/n module

2.4 GHz, up to 2 Mbps

Jeweller and Wings communication technologies

Proprietary wireless communication technologies to transmit commands, alarms, events, and photo verifications. They serve as a backup communication channel when the device is added to the hub.

Key features

Two-way communication

Clear and loud voice communication between users and visitors near the device.

Motion detection

The device detects movement using a built-in PIR sensor and software image frame analysis.

Object detection

using AI

- People.
- Pets.
- Vehicles.

Smart IR illumination

up to 6 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.

Visual verification of Ajax alarms

The system allows you to set up a scenario when Ajax detectors activate selected cameras to start recording. The result is immediately sent to the mobile or desktop monitoring app.

Support for ONVIF authorization

Profile S

Profile T (partially)

Ajax cameras and NVRs can be integrated into third-party video management systems (VMS).

Microphone

For two-way communication and sound recording at the site.

Audio codec

G722

Audio processing

Always active noise suppression and echo cancellation.

PIR detection

Sensitive elements

1 × PIR sensor

Motion detection distance

up to 4 m

Depends on the sensitivity level adjusted in the device settings.

Motion detection angle

horizontal: 120°

vertical: 100°

Sensitivity

3 levels

Adjusted by a PRO or a user with admin rights in Ajax apps.

Installation recommendations

It is recommended to install the device at a height of 1.2–1.5 m.

The device is designed for outdoor and indoor use.

It is **not recommended** to install the device in direct sunlight. This may cause overheating and damage to the device's electrical components.

Sabotage protection

Tamper alarm

Notifications of attempts to remove the device from the mounting panel.

Holding screw

secures the device on SmartBracket

mTLS

Encrypted connection for data protection.

Authentication

via Ajax Cloud

Without local access rights.

Secure Boot

Protection against firmware spoofing.

OTA signature verification

Secure automatic firmware update.

Privacy

Access rights distribution for users in mobile apps and for monitoring operators in PRO Desktop.

Communication loss detection

Wi-Fi: can be set from 30 s

Jeweller/Wings: after 36 s

Detection time depends on **Ajax Cloud connection** and **Jeweller** or **Jeweller/Fibra** settings.

Power supply

Device power consumption:	10 W
Main DC voltage range:	12–24 V=
Main AC voltage range:	16–24 V~, 50/60 Hz

Minimum current

wired chime is not connected:

- 1 A for 12 V \equiv
- 0.5 A for 24 V \equiv
- 0.6 A for 16 V \sim
- 0.4 A for 24 V \sim

wired chime is connected:

- 3 A for 12 V \equiv
- 3 A for 24 V \equiv
- 0.6 A for 16 V \sim
- 0.4 A for 24 V \sim

Battery

built-in rechargeable battery: Li-ion 600 mAh

Intended to heat the device in a cold climate and provide a backup power supply for short periods.

Power supply recommendations

When DoorBell is connected to a wired chime using BellKit, a more powerful power supply is required to ensure stable device operation:

- DC: 12–24 V, 3 A or more;
- AC: 16–24 V, 10 VA or more.

Enclosure

Dimensions:	145 × 47 × 34 mm
Weight:	163 g
Operating temperature range:	from –25 °C to +60 °C
Operating humidity:	up to 90%
Protection class:	IP54