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DoorBell

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Tech specs

# DoorBell

Video doorbell with built-in AI, PIR sensor, and control via apps



Device compatibility

Check

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## 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

Ajax Cloud (coming soon)

NVR

## 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 Mbit/s.

### 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.

[Learn more](#) >

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## 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.

## 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.

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## Sabotage protection

### Tamper alarm

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

**Learn more** >

### 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.

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## Power supply

### Device power consumption

10 W

### Main DC voltage range

12–24 V<sup>==</sup>

## Main AC voltage range

16–24 V<sup>~</sup>, 50/60 Hz

## 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.

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## 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



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## Color

**White**

RAL 9003

**Grey**

RAL 7004



**Graphite**

RAL 7024



**Black**

RAL 9005



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## Complete set

DoorBell

SmartBracket mounting panel

Wedge bracket (2 pcs)

BellKit (for connection to a wired chime)

Installation kit

Quick start guide

## Certification and compliance with standards



DoorBell



## Additional information

**Compliance with standards**

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**User manual**

[Learn more >](#)

**Warranty**

24 months

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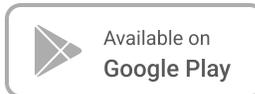
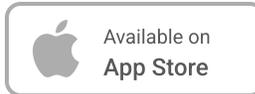
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products

### Solutions

- Customer stories
- Solutions by facility type
- Upgrades and retrofits
- Why Ajax

### Software

- For users
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax Translator
- Scenarios



### Support

- Manuals and articles
- Compliance with standards

### Tools

[How it works](#)

## DoorBell | Technical specifications

[Ajax device compatibility](#)

[Video storage calculator](#)

[Video device calculator](#)

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