Baseline

DoorBell

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

NDAA Compliant

Onvif



Professional security at the front door

DoorBell is an outdoor device that combines the convenience of a smart doorbell with high-end security and video surveillance capabilities. When the doorbell’s button is pressed, the user receives a notification, can view live video, and start a real-time conversation. Equipped with a PIR sensor and a wide-angle HDR camera powered by AI, the device detects people, animals, and vehicles and delivers excellent image quality. DoorBell also upholds Ajax’s signature privacy features, seamless integration, and reliable backup options.

- HDR technology
- Two-way audio communication
- AI-powered object recognition
- Backup battery
- Tamper
- PIR sensor for motion detection

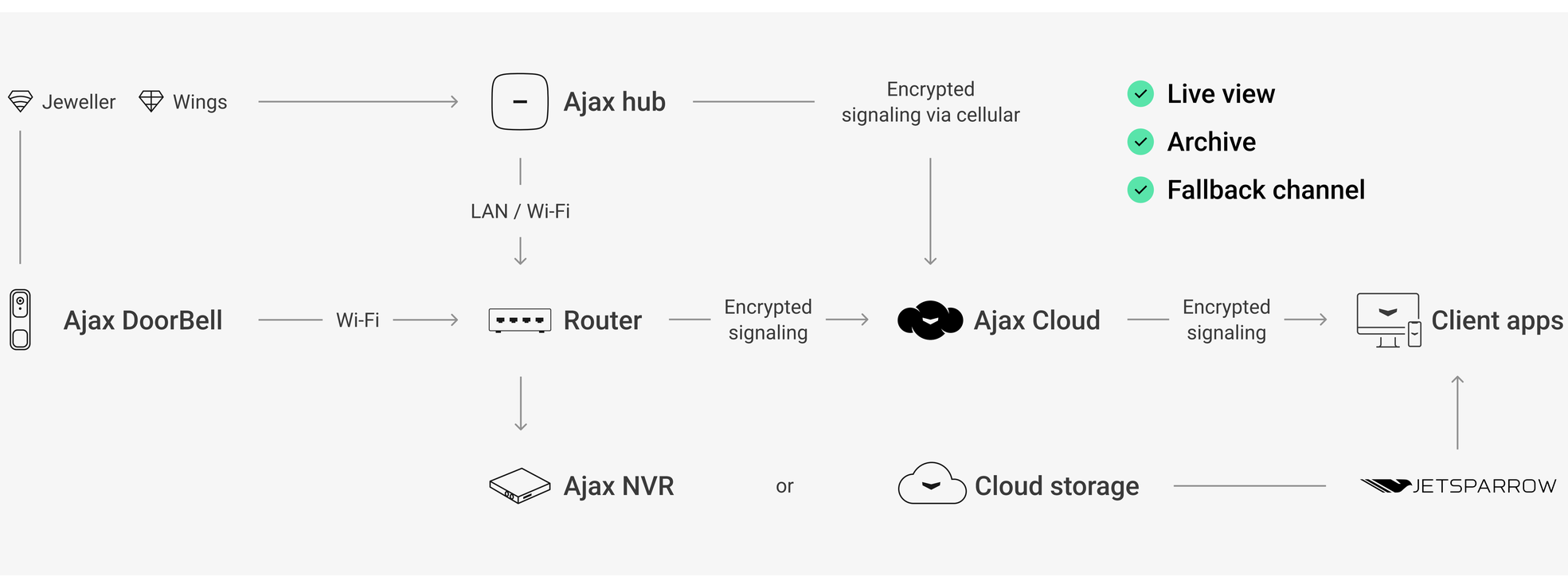
Three operation options

- Basic doorbell with fast and real-time video streaming
- Video streaming with a secure private archive
- AI-powered object recognition and smart video recording with short clips stored in the cloud archive[1]

Reliable connection at all times

DoorBell uses Wi-Fi as its **primary communication channel**. The device is designed to amplify the signal and reduce radio interference, which ensures a more stable connection over greater distances.

Connecting DoorBell to an Ajax hub enables a **fallback communication channel**. This feature allows the device to continue transmitting events, alarms, and photos through the secure proprietary Jeweller and Wings radio protocols, even if the Wi-Fi connection is lost.



Advanced video experience

- AI-powered recognition of people, animals, and vehicles
- Smooth streaming and archive navigation thanks to the JetSparrow technology
- Wide-angle HDR camera for high-quality images
- IR illumination of up to 6 m (20 ft) for enhanced visibility in the dark

Uncompromised security

- Fallback wireless communication with a hub at a distance[2] of up to 1,700 m (5,550 ft)
- Built-in backup battery
- Tamper alarm to notify of device dismantling
- Secure passwordless authentication

Quality two-way audio communication

- Clear voice transmission with noise suppression
- Echo cancellation for better audibility
- Top-notch audio quality thanks to the G.722 codec

Easy installation and setup

- Pairing with a hub by scanning the QR code
- Remote control and configuration via Ajax apps
- Conformance with ONVIF® Profile S
- RTSP support
- SmartBracket mounting panel for installation without disassembling the device enclosure
- BellKit bypass to connect DoorBell to a wired chime

Compatibility with hubs and range extenders

For detailed information, scan the QR code or follow the link:

ajax.systems/tools/devices-compatibility/?models=ADB.Y.W

Communication with a hub or range extender

Jeweller and Wings radio communication technologies

Communication range
up to 1,700 m
up to 5,550 ft
In open space

Frequency bands
866.0–866.5 MHz
868.0–868.6 MHz
868.7–869.2 MHz
905.0–926.5 MHz
915.85–926.5 MHz
921.0–922.0 MHz
Depends on the sales region

Wi-Fi
802.11 b/g/n module
2.4 GHz

Power supply

Main DC voltage range
12–24 V⎓

Main AC voltage range
16–24 V~, 50/60 Hz

Battery
built-in rechargeable battery:
Li-ion 600 mAh

Minimum current
wired chime is not connected:
- 1 A for 12 V⎓
- 0.5 A for 24 V⎓
- 0.6 A for 16 V~
- 0.4 A for 24 V~

wired chime is connected:
- 3 A for 12 V⎓
- 3 A for 24 V⎓
- 0.6 A for 16 V~
- 0.4 A for 24 V~

Sound

Output speaker power
1.5 W

Speaker volume
85 dB

Key features

Two-way communication

JetSparrow
Proprietary Ajax protocol for fast and secure video transmission

Motion detection
up to 4 m
up to 13 ft
Using a PIR sensor

Audio processing
Always active noise suppression and echo cancellation

Video recording

Camera
4 MP CMOS sensor

Resolution
up to 2688 × 1520 px

Camera viewing angles
horizontal: 155°
vertical: 90°

Video protocol
JetSparrow

Video codec
H.264

Dynamic range
HDR

General

Color
black, white, grey, graphite

Dimensions
145 × 47 × 34 mm
5.71" × 1.85" × 1.34"

Weight
163 g
5.75 oz

Installation

Operating temperature
−25 °C to +60 °C
−13 °F to 140 °F

Operating humidity
up to 90%

Protection class
IP54

Installation height
1.2–1.5 m
4–5 ft

Complete set

DoorBell
SmartBracket mounting panel
Wedge bracket (2 pcs)
BellKit
Installation kit
Quick start guide

[1] This feature will be available in upcoming updates.

[2] In open space.

For detailed information, scan the QR code or follow the link:

ajax.systems/support/devices/doorbell

support@ajax.systems
@AjaxSystemsSupport_Bot
ajax.systems