Ajax Superior BulletCam HLVF

Wired AI-powered security IP camera with a 2.8–12 mm motorized varifocal P-Iris lens, hybrid illumination, True WDR, built-in microphone and speaker, audio and alarm inputs/outputs, and PoE/12 V. For outdoor and indoor use.



IR · WL · IK10 · IP67 · True WDR · PoE · micro SD · NDAA Compliant

Product versions



Ajax Superior BulletCam HLVF (4 Mp)

up to 2688 × 1520 px (3K UHD)

P-Iris lens system



Ajax Superior BulletCam HLVF (8 Mp)

up to 3840 × 2160 px (4K UHD)

P-Iris lens system

Ajax Superior products are available exclusively to accredited Ajax Systems partners for sales, installation, and maintenance, creating a protected, high-value revenue channel.

Clarity shaped for every scene

With its motorized varifocal lens and autofocus, Ajax Superior BulletCam HLVF captures every detail that matters — all while keeping quality even in challenging lighting conditions. The adjustable field of view lets the camera cover wide areas or zoom in for fine details. The P-Iris lens system automatically balances contrast and sharpness, ensuring every frame looks crisp, vibrant, and true to life.

Adjustable focal length: 2.8–12 mm

Lens type: P-Iris

Seeing in color after dark

Thanks to hybrid illumination, Ajax Superior BulletCam HLVF records in full color even at night. Once motion or an object is detected, the camera automatically switches from infrared (IR) to white light to capture every detail. The sudden flash of white light also acts as a deterrent, stopping intruders in their tracks.

IR illumination range
up to 60 m (196 ft)

White light illumination range
up to 40 m (131 ft)

Seamless user experience

- Four times the AI computing power for even more accurate recognition of people, pets, and vehicles
- Two built-in microphones with noise suppression and echo cancellation
- Built-in speaker for two-way audio communication
- High-resolution visual verification of alarms via video scenarios
- Instant transition from notifications to on-site video recordings
- Camera synchronization with security system modes
- Siren or automation device activation upon detection[1]
- Real-time monitoring with a customizable video wall
- True WDR (Wide Dynamic Range) for better image quality

Smooth archive navigation

- Proprietary JetSparrow technology for instant, secure video streaming and smooth archive navigation
- Instant access to live view
- Fast archive navigation using event timeline, calendar view, and search filters
- Dual streams for instant preview and optimized bandwidth usage
- Quick video clip export in just a few clicks

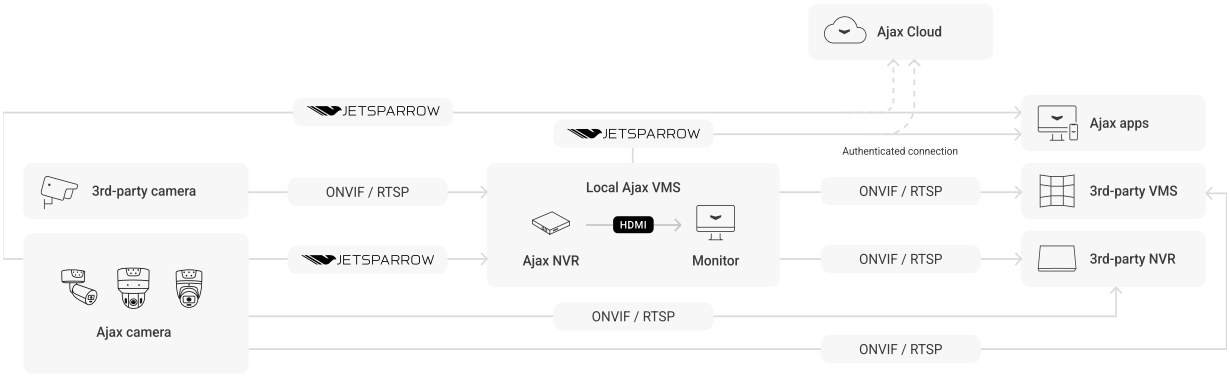
Uncompromising security and privacy

- Passwordless camera authentication via mutual TLS (mTLS) handshake
- TLS-encrypted video streams
- User-controlled access to video content
- Secure video export with digital signature verification
- Multi-tiered account protection: passcodes, biometrics, and two-factor authentication
- Session control for additional account security
- NDAA-compliant components

Easy installation and maintenance

- Adding to an Ajax system via QR code
- Remote control and configuration via Ajax apps
- Conformance with ONVIF® Profile G and S
- RTSP support
- Alarm and audio inputs/outputs for connecting third-party devices
- Motion detection zone configuration via mobile and desktop Ajax apps
- Real-time system health monitoring with automatic state checks

Flexible video surveillance for any scale and scenario



Ajax Superior BulletCam HLVF cameras can operate without an Ajax NVR.
In this case, video footage is stored locally on a microSD card, if one is installed.

Compliance with standards

CE
RoHS
NDAA

Audio

Built-in microphones
2

Built-in speaker
1

Ports

Audio ports
1 input, 1 output

Alarm ports
1 input, 1 output

Alarm IN max voltage
5 V⎓

Alarm OUT operating range
48 V⎓, 300 mA

Video and optics

Resolution

4 MP version:
up to 2880 × 1520 px
@ 25 fps (3K UHD)

8 MP version:
up to 3840 × 2160 px
@ 25 fps (4K UHD)

Image sensor
CMOS

Lens type
P-Iris

Lens focal length
2.8–12.0 mm

Focal length change
Autofocus
Manual focus control
Configured via Ajax apps.

Field of view
horizontal: 47°–110°
vertical: 26°–56°
diagonal: 54°–135°

Image processing
True WDR
(hardware and software)

Video compression
H.265, H.264

Bitrate
100 Mbps, full-duplex

Simultaneous live view
Up to 5 channels

Illumination

IR illumination range:
up to 60 m (196 ft)

White light illumination range:
up to 40 m (131 ft)

Video stream
RTSP
Conformant with ONVIF® Profile G and 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.

Storage
Ajax NVR
microSD card
Up to 512 GB

Key features

JetSparrow
Proprietary Ajax protocol for fast and secure video transmission

Motion detection
Built-in software to detect motion in the frame

Object recognition with built-in AI
People
Pets
Vehicles

Alarm verification
Motion detection
AI-powered recognition
Automation scenarios

Visual verification of system alarms

Activate sirens upon detection feature[1]

Automation scenarios[1]

Power supply

Power supply unit
12 V⎓ ± 20%, 1 A

Ethernet
10/100 Mbps
(RJ-45)

Ethernet port
PoE standard
802.3at/af

Power consumption
up to 12 W

Installation

Operating temperature
−40 °C to +60 °C
−40 °F to 140 °F

Operating humidity
up to 90%

Enclosure

Color
black, white

Dimensions
136 × 293.5 × 136 mm
5.35" × 11.56" × 5.35"

Weight
1,500 g
3.31 lb

Protection class
IP67
IK10

Complete set

Ajax Superior BulletCam HLVF
Installation template
Installation kit
Quick start guide

[1] To activate sirens or automation devices upon detection, the system must include such devices and an Ajax hub.

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

ajax.systems/support/devices/superior-bulletcam-hlvf

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