

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.



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



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 detection¹
- 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

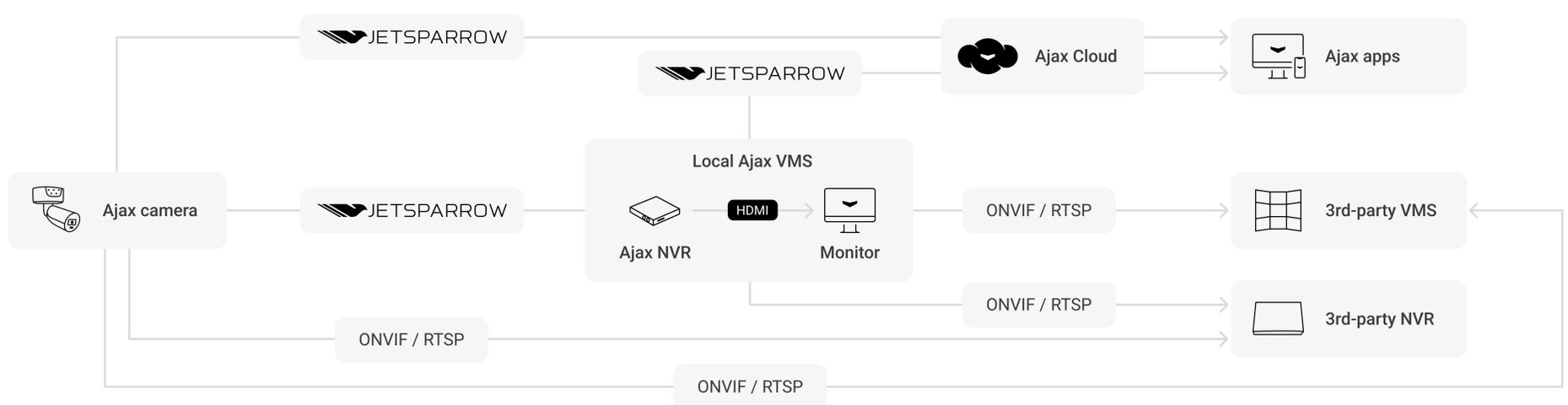
Uncompromising security and privacy

- 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
- Support for ONVIF/RTSP authorization²
- 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.

<p>Compliance with standards</p> <p>CE RoHS NDAA</p>	<p>Video and optics</p> <p>Resolution</p> <p>4 MP version: up to 2880 × 1520 px @ 25 fps (3K UHD)</p> <p>8 MP version: up to 3840 × 2160 px @ 25 fps (4K UHD)</p> <p>Image sensor CMOS</p> <p>Video stream ONVIF¹ RTSP</p> <p>Lens type P-Iris</p> <p>Lens focal length 2.8–12.0 mm</p> <p>Focal length change Autofocus Manual focus control Configured via Ajax apps.</p> <p>Field of view horizontal: 47°–110° vertical: 26°–56° diagonal: 54°–135°</p> <p>Image processing True WDR (hardware and software)</p> <p>Video compression H.265, H.264</p> <p>Bitrate 100 Mbps, full-duplex</p> <p>Simultaneous live view Up to 5 channels</p> <p>Illumination</p> <p>IR illumination range: up to 60 m (196 ft)</p> <p>White light illumination range: up to 40 m (131 ft)</p>		<p>Key features</p> <p>JetSparrow Proprietary Ajax protocol for fast and secure video transmission</p> <p>Motion detection Built-in software to detect motion in the frame</p> <p>Object recognition with built-in AI People Pets Vehicles</p> <p>Alarm verification Motion detection AI-powered recognition Automation scenarios</p> <p>Visual verification of system alarms</p> <p>Activate sirens upon detection feature¹</p> <p>Automation scenarios¹</p>
<p>Audio</p> <p>Built-in microphones 2</p> <p>Built-in speaker 1</p>			
<p>Ports</p> <p>Audio ports 1 input, 1 output</p> <p>Alarm ports 1 input, 1 output</p> <p>Alarm IN max voltage 5 V_{DC}</p> <p>Alarm OUT operating range 48 V_{DC}, 300 mA</p>			
<p>Power supply</p> <p>Power supply unit 12 V_{DC} ± 20%, 1 A</p> <p>Ethernet 10/100 Mbps (RJ-45)</p> <p>Ethernet port PoE standard 802.3at/af</p> <p>Power consumption up to 12 W</p>	<p>Installation</p> <p>Operating temperature –40 °C to +60 °C –40 °F to 140 °F</p> <p>Operating humidity up to 90%</p>	<p>Enclosure</p> <p>Color black, white</p> <p>Dimensions 136 × 293.5 × 136 mm 5.35" × 11.56" × 5.35"</p> <p>Weight 1,500 g 3.31 lb</p> <p>Protection class IP67 IK10</p>	<p>Complete set</p> <p>Ajax Superior BulletCam HLVF Installation template Installation kit Quick start guide</p>

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

² Full support for Profile S, partial support for Profiles T and M.



For detailed information, scan the QR code or follow the link:
ajax.systems/support/devices/superior-bulletcam-hlvf

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