

# Ajax Superior DomeCam 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 DomeCam HLVF (4 Mp)

up to 2688 × 1520 px (3K UHD)

P-Iris lens system



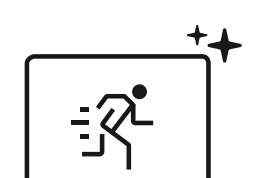
### Ajax Superior DomeCam HLVF (8 Mp)

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.

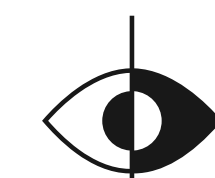


## Clarity shaped for every scene

With its motorized varifocal lens and autofocus, Ajax Superior DomeCam 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.

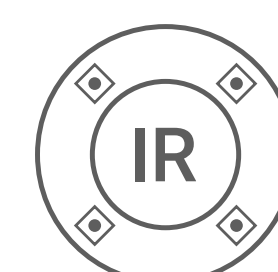
Adjustable focal length: 2.8–12 mm

Lens type: P-Iris



## Seeing in color after dark

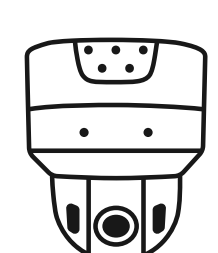
Thanks to hybrid illumination, Ajax Superior DomeCam HLVF records in full color even at night. Once motion or an object is detected, the camera automatically switches from infrared (IR) to white light to capture every detail. The sudden flash of white light also acts as a deterrent, stopping intruders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



IR illumination range  
up to 40 m (131 ft)



White light illumination range  
up to 25 m (82 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<sup>1</sup>
- 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

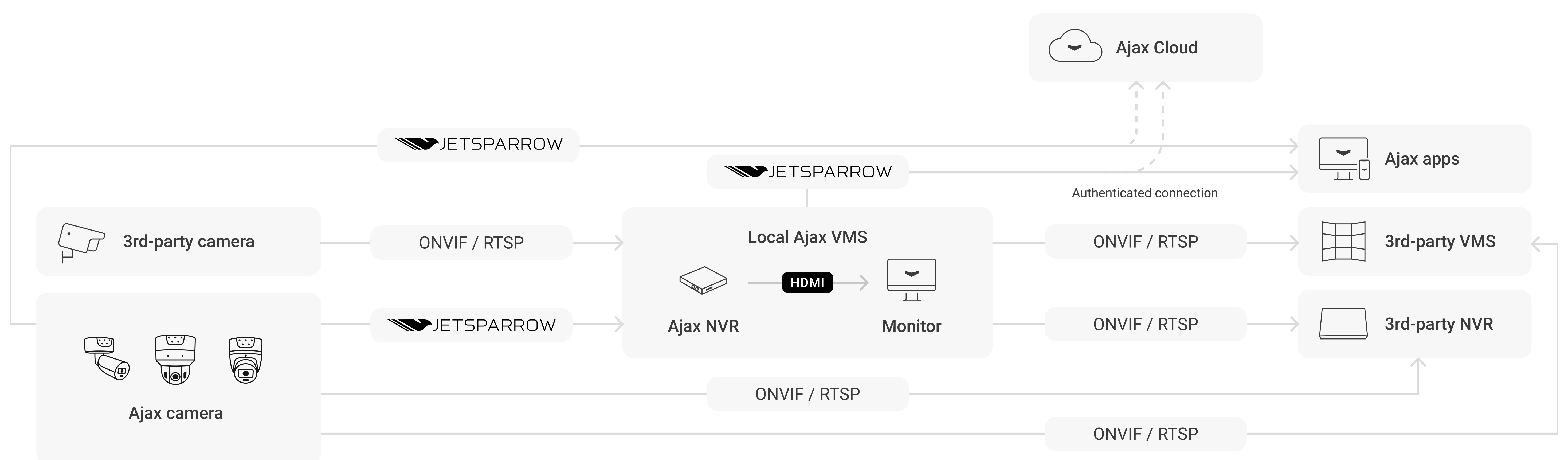
## Uncompromising security and privacy

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

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| <div><div>Compliance with standards</div><div>CE<br/>RoHS<br/>NDAA</div></div>                                                                                                                                                                                                                               | <div><div>Video and optics</div><div><div><div>Resolution</div><div>4 MP version:<br/>up to 2880 × 1520 px<br/>@ 25 fps (3K UHD)</div><div>8 MP version:<br/>up to 3840 × 2160 px<br/>@ 25 fps (4K UHD)</div></div><div><div>Image sensor</div><div>CMOS</div></div><div><div>Video stream</div><div>RTSP</div><div>Conformant with ONVIF® Profile S</div><div>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.</div></div><div><div><div>Lens type</div><div>P-Iris</div></div><div><div>Lens focal length</div><div>2.8–12.0 mm</div></div><div><div>Focal length change</div><div>Autofocus<br/>Manual focus control<br/>Configured via Ajax apps.</div></div><div><div>Image processing</div><div>True WDR<br/>(hardware and software)</div></div><div><div>Bitrate</div><div>100 Mbps, full-duplex</div></div><div><div>Illumination</div><div><div>IR illumination range:<br/>up to 40 m (131 ft)</div><div>White light illumination range:<br/>up to 25 m (82 ft)</div></div></div></div></div></div> |                                                                                                                                                                                                                                                                                                 | <div><div>Key features</div><div><div>JetSparrow</div><div>Proprietary Ajax protocol for fast and secure video transmission</div></div><div><div>Motion detection</div><div>Built-in software to detect motion in the frame</div></div><div><div>Object recognition with built-in AI</div><div>People<br/>Pets<br/>Vehicles</div></div><div><div>Alarm verification</div><div>Motion detection<br/>AI-powered recognition<br/>Automation scenarios</div></div><div><div>Visual verification of system alarms</div><div>Activate sirens upon detection feature<sup>1</sup></div><div>Automation scenarios<sup>1</sup></div></div></div> |
| <div><div>Audio</div><div><div>Built-in microphones</div><div>2</div></div><div><div>Built-in speaker</div><div>1</div></div></div>                                                                                                                                                                          | <div><div>Ports</div><div><div>Audio ports</div><div>1 input, 1 output</div></div><div><div>Alarm ports</div><div>1 input, 1 output</div></div><div><div>Alarm IN max voltage</div><div>5 V==</div></div><div><div>Alarm OUT operating range</div><div>12 V==, 300 mA</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <div><div>Power supply</div><div><div>Power supply unit</div><div>12 V== ± 20%, 1.5 A</div></div><div><div>Ethernet</div><div>10/100 Mbps<br/>(RJ-45)</div></div><div><div>Ethernet port</div><div>PoE standard<br/>802.3at/af</div></div><div><div>Power consumption</div><div>up to 18 W</div></div></div> | <div><div>Installation</div><div><div>Operating temperature</div><div>–40 °C to +60 °C<br/>–40 °F to 140 °F</div></div><div><div>Operating humidity</div><div>up to 90%</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div><div>Enclosure</div><div><div>Color</div><div>black, white</div></div><div><div>Dimensions</div><div>136 × 165 × 136 mm<br/>5.35" × 6.48" × 5.35"</div></div><div><div>Weight</div><div>430 g<br/>15.17 oz</div></div><div><div>Protection class</div><div>IP67<br/>IK10</div></div></div> | <div><div>Complete set</div><div>Ajax Superior DomeCam HLVF<br/>Installation template<br/>Installation kit<br/>Quick start guide</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

<sup>1</sup> 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-domecam-hlvf](https://ajax.systems/support/devices/superior-domecam-hlvf)

-  support@ajax.systems
-  @AjaxSystemsSupport\_Bot
-  ajax.systems