

DomeCam HLVF

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



Product versions



DomeCam HLVF (5 Mp)

up to 2880 × 1620 px (3K UHD)



DomeCam HLVF (8 Mp)

up to 3840 × 2160 px (4K UHD)



Adaptability by design

DomeCam HLVF is engineered to adapt to any scenario. Featuring a motorized varifocal lens with autofocus, a single camera can provide both wide coverage and sharp detail. This flexibility simplifies installation, enables smarter setups, and ensures consistently clear visuals.

Adjustable focal length for wide or focused views: 2.8–12 mm

Instant autofocus for sharp visuals after adjustment



Seeing in color after dark

Thanks to hybrid illumination, 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 (130 ft)

White light illumination range: up to 25 m (80 ft)



Seamless user experience

- AI-powered object recognition: people, vehicles, and pets
- High-resolution visual verification of alarms via video scenarios
- Built-in microphone with noise suspension and echo cancellation
- Instant transition from notifications to on-site video recordings
- Camera synchronization with security system modes
- Sirens or automation devices 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

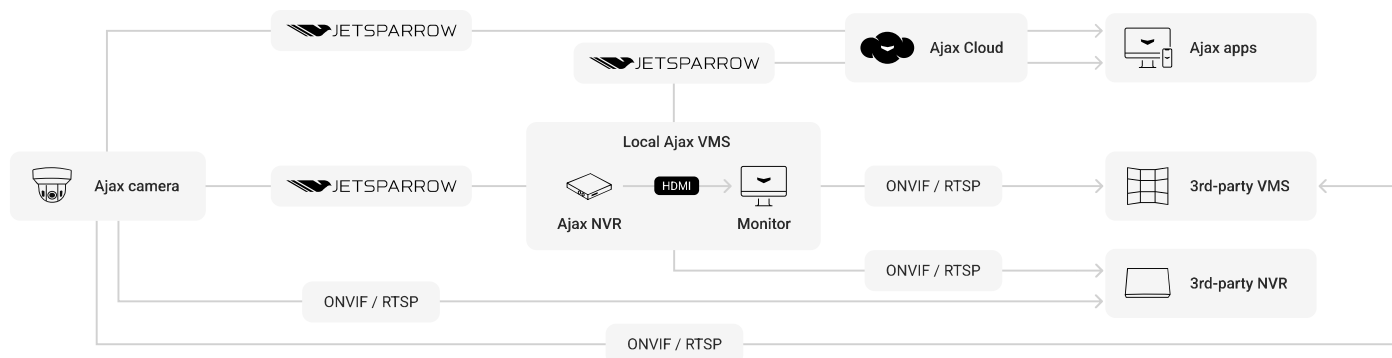
Uncompromising security and privacy

- 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 and outputs to connect third-party devices
- Motion detection zone configurations via mobile and desktop Ajax apps
- Real-time system health monitoring with automatic state checks

Flexible video surveillance for any scale and scenario



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.

Compliance with standards	Video and optics		Key features
CE	Resolution		Motorized varifocal lens
RoHS	5 MP version:	8 MP version:	Allows changing the viewing angle from wide to narrow
NDAA	up to 2880 × 1620 px @ 25 fps (3K UHD)	up to 3840 × 2160 px @ 25 fps (4K UHD)	
	Lens focal length		JetSparrow
	2.8–12.0 mm		Proprietary Ajax protocol for fast and secure video transmission
	Field of view	Video stream	Motion detection
	horizontal: 31°–111°	ONVIF ¹	Built-in software to detect motion in the frame
	vertical: 17°–57°	RTSP	
	diagonal: 35°–135°		Object recognition with built-in AI
	Image processing	Video compression	Alarm verification
	True WDR	H.265, H.264	Motion detection
	(hardware and software)		AI-powered recognition
	Bitrate	Simultaneous live view	Detector alarm
	100 Mbps, full-duplex	Up to 5 channels	Automation scenarios
	Illumination		Built-in digital microphone
	IR illumination range:	White light illumination range:	
	up to 40 m (130 ft)	up to 25 m (80 ft)	

Power supply Power supply unit 8–14 V ⁼⁼ Ethernet 10/100 Mbps (RJ-45) Ethernet port PoE standard 802.3at/af Power consumption up to 12 W	Installation Operating temperature range from –40 °C to +60 °C from –40 °F to 140 °F Operating humidity up to 90%	Enclosure Color black, white Dimensions 136 × 136 × 115.3 mm 5.35" × 5.35" × 4.53" Weight 430 g 15 oz Protection class IP67 IK10	Complete set DomeCam HLVF Installation template Installation kit Quick start guide
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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/domecam-hlvf

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