

TurretCam 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.

Onvif® | GS



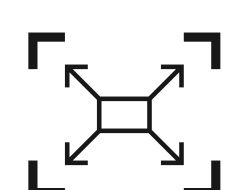
Product versions



TurretCam HLVF (5 Mp)
 up to 2880 × 1620 px (3K UHD)



TurretCam HLVF (8 Mp)
 up to 3840 × 2160 px (4K UHD)

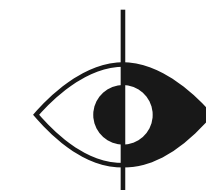


Adaptability by design

TurretCam 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

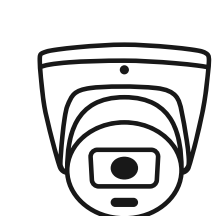


Seeing in color after dark

Thanks to hybrid illumination, TurretCam 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)



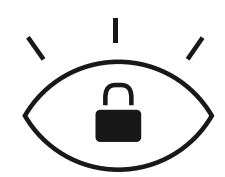
Seamless user experience

- 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



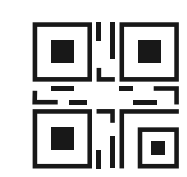
Smooth archive navigation

- 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

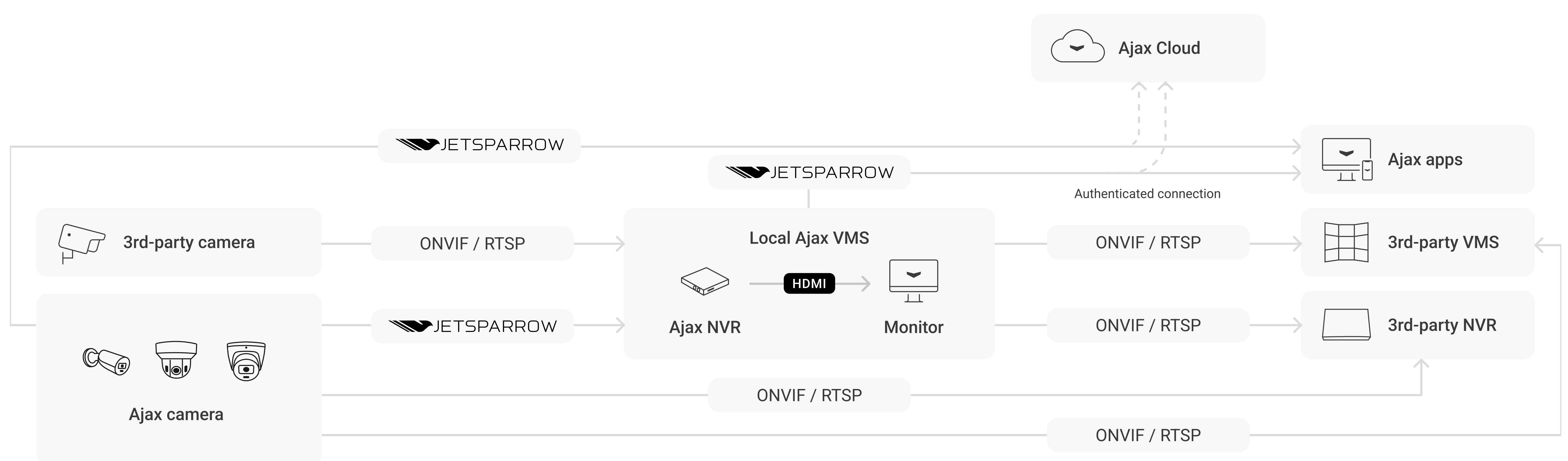
- Passwordless camera authentication via mutual TLS (mTLS) handshake
- TLS-encrypted video streams
- User-controlled access to video content
- Secure video export with digital signature verification
- Multi-tiered account protection: passcodes, biometrics, and two-factor authentication
- Session control 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
- Conformance with ONVIF® Profile G and S
- RTSP support
- 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



TurretCam 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	Video and optics Resolution 5 MP version: up to 2880 × 1620 px @ 25 fps (3K UHD) 8 MP version: up to 3840 × 2160 px @ 25 fps (4K UHD) Field of view horizontal: 31°–111° vertical: 17°–57° diagonal: 35°–135° Lens focal length 2.8–12.0 mm Image processing True WDR (hardware and software) Video compression H.265, H.264 Illumination IR illumination range: up to 60 m (196 ft) White light illumination range: up to 40 m (131 ft) Bitrate 100 Mbps, full-duplex Simultaneous live view Up to 5 channels 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 256 GB	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
Key features Motorized varifocal lens Allows changing the viewing angle from wide to narrow JetSparrow Proprietary Ajax protocol for fast and secure video transmission Motion detection Built-in software to detect motion in the frame Built-in digital microphone Object recognition with built-in AI People Pets Vehicles Alarm verification Motion detection AI-powered recognition Detector alarm Automation scenarios		Enclosure Color black, white Dimensions 136 × 113 × 136 mm 5.35" × 4.45" × 5.35" Weight 850 g 30 oz Protection class IP67 IK10
Installation Operating temperature –40 °C to +60 °C –40 °F to 140 °F Operating humidity up to 90%		Complete set TurretCam 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/turretcam-hlvf

-  support@ajax.systems
-  @AjaxSystemsSupport_Bot
-  ajax.systems