

Digital Ally, Inc.

Product Model: **In-Vehicle Camera Kit (two-camera system): EVO-HD**

Introducing the EVO-HD In-Vehicle Camera System:



Digital Ally's next generation of In-Vehicle Camera Systems is the EVO-HD In-Vehicle Camera System. The EVO-HD is the first product in a new line of non-mirrored in-vehicle camera systems that maximizes space and offers top-end reliability.

The FirstVu II Body Camera can serve dual functionality by being utilized as a body microphone and body camera with the EVO-HD System. The EVO-HD In-Vehicle Camera System represents the industry's only multiple High Definition video solution product and features the built-in patented VuLink automatic activation technology.

The System

Completely New and Highly Advanced

The EVO-HD In-Vehicle Camera System is Digital Ally's first product in a new family of in-vehicle video systems that maximizes space and offers top-end reliability paired with remote access and service capabilities. The miniaturized system can be custom mounted to fit your Department's needs. The EVO-HD can support up to four HD cameras with two cameras having simultaneous pre-event and evidence capture assurance (ECA) capabilities.

Built-in Patented Automatic-Activation Technology with VuLink

With built-in, patented VuLink cross automatic activation technology, EVO-HD captures multiple recording angles in sync from both a FirstVu HD or FirstVu PRO Body Camera and an EVO-HD System – from multiple customized triggers.

Enhanced Video

High Quality 1080p HD Video

The EVO-HD In-Vehicle Camera System can support up to four High Definition (HD) 1080p cameras. Customize the solution with multiple camera options including a road facing, back-seat or weather resistant external camera.

Crystal Clear Audio

Multiple Microphone Options

Choose between a wireless microphone that can capture audio up to 1,000 feet from the vehicle or pair a FirstVu II Body Camera with EVO-HD as the audio source. The infrared utility back-seat camera is also equipped with built-in HD audio.

Critical Capture

Never Miss an Important Event

Dispatch Activation: With EVO-HD, dispatch operators can automatically start a recording of any device remotely.

Pre-Event: When enabled the system will record up to the previous 60 seconds leading up to the activation of a recording.

Evidence Capture Assurance (ECA): When enabled, ECA provides a continuous loop of recording that allows an agency to go back and look at video from an entire shift.

EVO Interview

Securely Capture Evidence

Monitor, record and automatically upload crucial video evidence during the interview process. From a single platform generate chain of custody reports and redact personal or other sensitive information from audio or visual evidence.

EVO-HD In-Vehicle Camera System Features

The new EVO-HD represents the industry's only multiple High Definition video solution product and features the built-in patented VuLink automatic activation technology.

The EVO-HD In-Vehicle Video System will include the following features:

- Multiple HD Camera Solution
- Patented VuLink Triggering
- 256GB Internal Storage
- System Firmware
- 4 Channel Video (2 with Pre-event and ECA)
- Configuration / Logging
- 6 Input Sensors: 9vdc threshold (Lights, Siren, Brakes, Vehicle Speed, etc.)
- 1 Output Trigger



- RS232 Radar Interface
- 4 USB Ports
- 1 RJ45 Port
- Radio interface
- HD Front Facing Camera(s)
- HD Backseat Camera(s)
- Optional Network Switch (POE)
- Optional Powered USB Hub)
- Optional external monitor
- High-G event sensor
- Internal GPS
- Vehicle Location, and Speed
- Internal Wi-Fi Module
- VuLink Body Camera Triggering
- Internal Cell Mode: Cloud Connectivity
- Real time metadata and Remote System Diagnostics
- One antenna for GPS/Wi-Fi/Cell
- Back-up battery
- Browser based MDT application to setup and control the EVO as well as record and tag events
- Dedicated Cloud solution
 - Video Storage/Review
 - Playback 4 videos simultaneously along with the metadata
 - Near real-time location mapping, status updates, and geo-spatial searches
 - Remote cloud trigger feature to start recordings from the dispatch office
 - Simplified and improved product configuration
 - Remote troubleshooting and firmware update
 - Improved user lo
 - g-in security



Full HD Zoom Camera



Full HD Fixed Focus Camera

EVO-HD Specifications:

Power	
Operating Voltage	9 to 32 VDC
On	400mA @ 13.8VDC Typical
Off	25mA @ 13.8VDC Typical
Backup Battery	600mAh Rechargeable NiMH
Built-in Protections	Over voltage, over current, short circuit

Environmental & Mechanical	
Operating Temperature	-10°C to 70°C (14°F to 158°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Dimensions	188mm x 94mm x 51mm (7.4in x 3.7in x 2in) [LxWxH]
Weight	680g (1.5lbs)
Internal Components	
Real-time Clock	✓
Accelerometer	6 Axis, Up-to ±16g acceleration full scale
GPS Receiver	1Hz, 4.9m (16ft) accuracy
Cell Receiver	3G (GSM) or 4G LTE (CAT-M1)
WiFi	2.4GHz 802.11n
VuLink Functionality	✓
Inputs	6 inputs – 3.3-24V for Blue, Green, Orange, and White; 12-24V for Red
Outputs	2 outputs – Ground when triggered, 36VDC/1A maximum
Radar Support	Decatur Future: Stalker, MPH Ranger, and Kustom
Pre-event buffer capacity	Configurable: 0 to 60 seconds
Memory	256GB Industrial Grade - 230GB available for all recordings ECA configurable for: 10, 20, 40, 80, and 100GB
Recorder	
Codec	H.264
Bit Rate	2, 4, 6 mbps
Frame Rate	15, 30 FPS
Container	MP4
Audio	AAC, mono @ 32Kbps

Mini Monitor Specifications

Screen Size	3.5"
Resolution	Quarter-VGA resolution [320 x 240]
Brightness	300cd/m ²
Weight	450g (1.3lbs)
Dimensions	100mm x 125mm x 35mm (3.94in x 4.92in x 1.38in) [LxWxH]
Speaker	1.5 Watt 8Ω Speaker

PoE Switch Specifications:

Power	
Operating Voltage	9 to 36VDC
On	No cameras - 0.42A @ 12VDC 0.23A @ 24VDC Standard 2 camera kit - 1.2A @ 12VDC 0.54A @ 24VDC
Off	15mA @ 12V (~180mW)
Power over Ethernet	IEEE 802.3af - 48VDC, 350mA max (15.4W) per port
Built-in Protections	Configurable low battery voltage protection
Number of Available Ports	4 Port Standard - 4 cameras or 3 cameras + MDT 8 Port (Optional) - 4 cameras + MDT
Environmental & Mechanical	
Operating Temperature	-30 to 70°C (-22°F to 158°F)
Storage Temperature	-35 to 85°C (-31°F to 185°F)
Dimensions	167mm x 59mm x 140mm (6.58in x 2.32in x 5.5in) [LxWxH]
Weight	1kg (2.2lbs)
Vibration	Random: 1g @ 5~500 Hz Operating: MIL-STD-810G, Method 514.6, Category 4 Storage: MIL-STD-810G, Method 514.6, Category 24
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, 20g Non-Operating: MIL-STD-810G, Method 516.6, Procedure V, 75g

Camera Specifications:

10X Front Facing Road Camera	
Field of View (D, H, V)	Wide (68°, 54°, 31°) Tele (6.7°, 4.9°, 4.0°)
Resolution	1920(H) x 1080(V)
Shutter Speed	1/1 ~ 1/10000 Auto controlled
Sensor Size and Type	1/3" CMOS Sensor
Maximum Zoom	10X optical
Focal Length	5.1mm~51mm
Focus	Auto or Manual
Focus Near Limit Setting	1, 1.5, 2, 3, 5 meters
Aperture	f/2.4
White Balance	Auto

Lux Ratings	Color: 0.5Lux B/W: 0.1Lux Digital Slow Shutter (10FPS) - Color: 0.125Lux B/W: 0.025Lux
Wide Angle Back Seat Camera	
Field of View (D, H, V)	140.5°, 120.2°, 65.3°
Resolution	1920(H) x 1080(V)
Shutter Speed	1/25 ~ 1/10,000
Sensor Size and Type	1/2.7" CMOS Sensor
Focal Length	2.9mm
Focus	Fixed
White Balance	Auto
Lux Ratings	Color: 0.2Lux B/W: 0.02Lux



EVO-HD Built-in Automatic Activation:

Internal VuLink technology included in the EVO-HD: Patented Automatic Activation

Digital Ally's VuLink was the first product on the market to fully integrate in-vehicle cameras and body worn video. The patented technology behind VuLink enables wireless automatic activation of your In-vehicle Camera, Wireless Microphone, and FirstVu HD or FirstVu PRO Body Camera.




VuLink Technology Features:

- View all related video feeds at the same time: Video from both the In-vehicle and FirstVu HD or FirstVu PRO Body Camera will sync
- Hands Free: Automatically activates FirstVu HD or FirstVu PRO Body Camera & In-vehicle Camera
- Eliminates Distractions: Reduce incidents of user-error and the need to continuously record

Most Common VuLink Triggers:

- Emergency Lights
- G-Force or Impact Events
- Vehicle Speed
- In-vehicle Camera System
- Gun Lock
- Seat Belt
- Emergency Radio Switch
- Motorcycle Kickstand
- Motorcycle Handle Bar Switch
- Trunk Latch
- Fire Suppression Systems
- Doors
- GPS Zones (with In-vehicle Camera System)
- 12 Volt Relay

Pair with these other Digital Ally Products:

-  FirstVu PRO Body Camera
-  QuickVu 8 Docking Station
-  Quick Vu 24 Docking Station