




Digital Ally DVM-800 In Vehicle Camera Kit User Manual

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BUILD SHEET

Digital Ally, Inc.

Product Model:

In-Vehicle Camera Kit (four-camera system): DVM-800

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DVM-800 In Vehicle Camera Kit

Introducing the DVM-800 In-Car Camera System:

The DVM-800 is a complete digital in-vehicle video recording system integrated into a replacement vehicle rear-view mirror. The DVM-800 comes standard with four cameras and two-channel recording. The quality settings can be adjusted to meet your requirements.



NEVER MISS AN IMPORTANT EVENT



Evidence Capture Assurance (ECA)

ECA tells the system to record on a continuous loop. Individual events are recorded, but ECA enables an agency to go back and look at video from an entire shift.

Pre-Event Recording

With Pre-Event enabled, the system is always recording the last 30 seconds to capture the events leading up to the activation of a recording.

ENHANCED VIDEO AND AUDIO

High Quality Video | Crystal Clear Audio

Our cameras have high quality video ranging from Enhanced D1 Resolution to full HD Resolution. With the combination of our mirror units built in cameras and multiple options for external cameras, you can customize your video feeds, with up to two channels recording simultaneously. Our wireless microphone records enhanced audio for up to 3000 feet from the vehicle.



CUSTOM SOLUTION TO FIT YOUR NEEDS

Highly Configurable Systems

Our camera systems can be configured to work in any way your agency needs. All of our systems have multiple settings that you can configure to make the solution fit any requirements your policy might have, such as,

audio/video quality, preevent customization, user control, multiple camera options, and more customization on the back-end with our VuVault Software series and VuVault.com cloud solution.

Included with Purchase:

- DVM-800, Main Unit 32GB
- 32GB SDHC card
- DVM Mount Assembly with Integrated 3.5" color monitor (can be invisible when not in use)
- 900MHz Wireless Microphone with 1000-foot range
- Two in-car covert microphones
- Accessory Kit: Includes Windshield Mounting Puck, Lanyard, Mounting Hardware, Security Tamper Resistant Screw & Key Kit
- Four Cameras:
 - Full D1 resolution (720×480) road-facing camera with 12x variable zoom
 - Passenger-facing Camera with Infrared illumination built into the rearview mirror
 - Smart Infrared Backseat-facing Camera
 - Choice between License Plate Camera, Side Mount Camera, or Infrared Backseat-facing Camera
- Vehicle Input Controller (model iFE-20)
- Main Power Cable to IF Box, 3.1 m (10.1ft.)
- Vehicle Input Controller Cable to DVM 4.6m (15.0ft.)
- DWM-928 System (900MHz) Includes Wireless Microphone, Charging Cradle, Mounting Bracket, and Lapel Microphone
- Backseat Microphone for DWM-928, 20ft., 2.5mm plug
- USB 2.0 Type A to Mini-B Cable, 3.3 ft.
- Wireless Microphone to DVM-800 Cable
- Vehicle Input Controller, Sensor, RJ45 Cable
- Wi-Fi Antenna
- GPS Module
- Reference Guide

Specifications for DVM-800:

POWER	
Operating Voltage	13.8VDC
On	360mA @ 13.8VDC
Off	260uA @ 13.8VDC
Low Power Standby	170mA @ 13.8VDC
Backup Battery	3.7v, 1150mA, Rechargeable Lithium Ion Polymer Battery
ENVIRONMENTAL/MECHANICAL	
Operating Temperature	-20° to +70° C
Storage Temperature	-40° to +80° C
Dimensions	48mm (1.9in.)(D) x 279mm (11in.)(W) x 106mm (4.7in.)(H)
Weight	733g (1.62lbs)
INTERNAL COMPONENTS	
LCD Monitor	3.5" Color Ultra Bright. 640×480 resolution
Real Time Clock	On board, used when GPS signal is lost
Accelerometer	3-axis, ±8g
Wi-Fi	802.11(n) wireless adapter included. Secure FTP transfer through WAP or cellular modem
Microphone	Internal (max. input SPL 110dB, sensitivity -30dB)
GPS Receiver	4Hz position update rate, 2.5m position accuracy
Video	2-recording channels @ 30fps(max), H.264, AVI container
Audio	Stereo (internal to one channel, external on other)
MEDIA STORAGE	
Capacity	External SD Card Support: 8/16/32 GB, Class-10, commercial grade 80 R MB/s, 50 W MB/s Internal Memory matches external
Secure Media Access	Optional tamper resistant screw can be installed in the access door, requiring the corresponding security key to unlock the access door. (included with the DVM)
Pre-Event Buffer	Up to 30 seconds for each of the two recording channels, adjustable in 6 second increments

Vehicle Input Controller	
Dimensions	57mm (2.24in) (D) x 29mm (1.14in) (H) x 110mm (4.33in) (L)
Input Triggers (Sensors)	Six customizable multi-purpose input triggers.
Operating Voltage	13.8VDC
Output Alarm	One (1) normally open, active low output trigger, 2A maximum current
Operating Temperature	-20° to +70° C
Storage Temperature	-40° to +80° C
Radar Support	9 Pin Serial Female (additional cables required)

Camera Specifications

Internal Passenger Facing Camera	Resolution: D1 FOV: 96°(V) X 119°(H) X 141°(D) Fixed focus lens IR LED assisted for low light conditions 0.5 Lux with IR LEDs OFF 0.0 Lux with IR LED's ON
Internal Road Facing Camera	Resolution: D1 FOV: 57.9°(V) X 79.2°(H) X 103.4°(D) Fixed focus lens
12XC External road-facing Camera	FOV: 76° (V) x 102° (H) Resolution: 768x494, Color 560TVL B&W 600TVL 1/4" Ex-HAD CCD imager Zoom magnification 12X Focal Length: f=3.6 ~ 44.3mm, f1.6 (Wide)/ f2.0 (Tele) Auto / Manual focus Auto / Manual Iris Auto White Balance Minimum Illumination: Color 2.0 Lux B&W 0.2Lux
Infrared External backseat-facing Camera	FOV: 76° (V) x 102° (H) x 115° (D) Shutter Speed: 1/60 second Resolution: 640TVL 1/3" Super HAD CCD imager Auto focus & Auto White Balance IR LED assisted for low light conditions 0.5 Lux with IR LEDs OFF 0.0 Lux with IR LED's ON
License Plate Backup Camera	Resolution: 420TVL FOV: 95° (V) x 125.8° (H) x 155.4° (D) Fixed focus lens

Wireless Microphone Specifications:

System Range	3000 feet typical
Communication	Bidirectional
Microphone Sensitivity	-30dB, Maximum Input SPL 110dB
Power	External 12VDC, 0.190mA typical
Size	DWM Cradle: 2.75in x 2.99in x 3.15in (70mm x 76mm x 80mm) DWM Microphone: 2.5in x 1.8in x 0.94in (64mm x 46mm x 24mm)
Weight	DWM Cradle (BTR800): 233g DWM Wireless Microphone (RMT800): 74g
Battery	Internal Li-ion 3.7V/1800mAh cell 20 hours In Use with full charge, 14 days Standby 4 hours charge time
Frequency	900MHz FHSS, 50 possible channels
Frequency Response	200 ~ 4200Hz +/- 3 dB Audio

Pair with these other Digital Ally Products:



FirstVu HD Body Camera



12-Bay Docking Station



VuLink for Automatic Activation



VuVault Software



14001 Marshall Dr
Lenexa, KS 66215

www.digitalallyinc.com

800.440.4947

Documents / Resources

	<p>Digital Ally DVM-800 In Vehicle Camera Kit [pdf] User Manual DVM-800, In Vehicle Camera Kit, DVM-800 In Vehicle Camera Kit, Vehicle Camera Kit, Camera Kit</p>
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References

- [VuVault](#)
- [Body Cams and Video Systems for Law Enforcement - Digital Ally](#)

