



# DigitalPatroller<sup>®</sup> DP-2

In-Vehicle Video System

## Frequently Asked Questions



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## 1 DIGITALPATROLLER DP-2 AS MOTOROLA'S MOBILE VIDEO RECORDING SOLUTION

### 1.1 Does Motorola offer a Mobile Video Recording Product?

Motorola has partnered with Integrian to provide the DigitalPatroller DP-2 product as part of an In-Vehicle Mobile Video Recording solution.

### 1.2 Will Motorola continue to sell and support Mobile Video Enforcer (MVE)?

Motorola announced the cancellation of the MVE product on January 28, 2008. This product is no longer available from the supplier, and Motorola is not accepting any new orders. DigitalPatroller DP-2 is Motorola's next-generation in-vehicle video recorder.

Motorola intends to provide repair support for MVE systems for three (3) years from the date of cancellation. Customers may also wish to purchase a Motorola maintenance agreement for their MVE systems, for an annual fee. Motorola will provide maintenance agreements on the MDVR and on the DVMS server only.

For some MVE customers that own a tape library backup system, Motorola has provided hard drive storage units. Motorola will continue to provide these MVE tape library customers with sufficient hard drive storage capacity **only through March 31, 2008**. After March 31, 2008 Motorola will no longer support MVE storage expansion.

All MVE customers are advised to upgrade to DigitalPatroller DP-2.

### 1.3 Will Motorola help customers transition from MVE to DP-2?

Yes. Motorola will encourage and support customers who wish to transition their mobile video systems from MVE to DP-2. Please contact your Motorola sales representative for details.

### 1.4 Can MVE cameras or other equipment be reused with DP-2?

MVE cameras can be reused with DP-2, but a new cable from the camera to the DVR is required. Please consult your Motorola sales representative for more information.

### 1.5 Can I add DP-2 to my first-generation Integrian DigitalPatroller (DP-1) system?

Not at this time. Please note that DP-1 is not sold or supported by Motorola.

## 2 IN-VEHICLE OPERATION

### 2.1 How are in-car cameras controlled? Can they be operated independently?

In-car cameras are controlled through the LCD monitor or the mobile workstation. Controls allow the operator to start recording, stop recording and transmit the video from the DVR to the server. Cameras cannot be operated independently.

## 2.2 What triggers can activate a DP-2 recorder?

There are multiple triggers to start the DP-2 recording: light bar activation, siren, speed, GPS, wireless microphone transmitter, and door opening (requires an I/O cable and switch). Recording can also be triggered from the LCD monitor or the mobile workstation.

## 2.3 Will DP-2's radio transmissions interfere with other police equipment?

The audio transmissions from the wireless microphone transmitters operate at 2.4GHz or at 900 MHz. Motorola has not observed or received reports of interference with other public safety equipment.

## 2.4 What triggers the transfer of video data from the car to the server at headquarters? Is it automatic?

The Transmit button on the LCD monitor or mobile workstation must be pressed to start the video transfer. Video transfer is not triggered automatically.

## 2.5 Some of our DataTalker<sup>®</sup> wireless microphones operate at 900 MHz, while others work at 2.4 GHz. Are they interchangeable?

The 900 MHz microphone can only work with a 900 MHz receiver, and the 2.4 GHz microphone can only work with a 2.4 GHz receiver. Using a microphone with the wrong receiver will result in audio not being recorded. Other functions of the microphone, such as remote triggering capability, likewise will not work without the correct receiver in the car. Attempting to charge a microphone in the wrong receiver will not cause damage, but the microphone will not charge.

The easiest way to distinguish 900 MHz microphones from 2.4 GHz microphones is by the label on the front: 2.4 GHz microphones have *2.4 GHz DataTalker* printed in white, while 900 MHz microphones have *DataTalker* printed in blue. Labels on receivers follow the same color code.



A 900 MHz DataTalker microphone (left) is labeled in blue. A 2.4 GHz microphone is labeled in white.

## 2.6 Can DP-2 hardware be mounted in the trunk of the vehicle?

It is possible to mount the DP-2 video recorder in the trunk. However, the DVR has an operating temperature range of -4°F to 131°F (-20°C to 55°C), and in many climates, temperatures in the trunk can exceed these limits. Therefore, Motorola does not recommend mounting DP-2 hardware in the trunk.

### 3 DATA MANAGEMENT SYSTEM BACK-END SERVERS

#### 3.1 How fast can DP-2 upload video from the car to back-end servers?

This depends on your connection method. The fastest data transfer would be over wireline Gigabit Ethernet, which transfers data at 1 Gbit/second, and would transfer one hour of video in under 5 minutes. However, such a system would require that a cable be attached to the car.

Other supported transfer methods include 10- and 100-Megabit wireline Ethernet, Wifi (802.11 a/b/g), and physically carrying the drives from the car into the building. All of these options support different speeds, depending on the equipment and conditions in which it's being used. The optimal connection method also depends on the number of vehicles needing support, and how long each vehicle can be allowed to stand and wait for the upload to complete.

Your Motorola sales representative can help you select the transfer method that best suits your needs and budget.

#### 3.2 How much data storage does the DP-2 system require?

That depends on how many hours of video your organization needs to store. At its top resolution (720 x 480) and using standard compression, DP-2 consumes approximately one gigabyte (1 GB) of space for every hour of video stored. Your storage requirements will depend on how many vehicles you have in your fleet, how many hours each vehicle records per day, and how long you need to keep video data on your servers before it is backed up by your IT staff and deleted. The number of hours each vehicle records per day depends on how many incidents occur in your jurisdiction and your procedures. Online storage periods will depend on your preferences, procedures, and legal requirements in your jurisdiction.

On the next page is a rough guide to help you estimate your storage needs. While this information will tell you how much space the video will take up, it is important to remember to calculate redundant storage and backup costs for data this crucial.

Your Motorola sales representative can assist you in figuring out the optimal storage system to fit your requirements and budget.

**DP-2 Video Storage Estimated Requirements**

Number of Vehicles in Fleet	Hours Recorded Per Day Per Vehicle (avg.)	Days Before Deletion from Server	Resolution (with standard compression)	Approximate Storage Space Needed (GB)
20	2	30	720 x 480	1,200
20	2	90	720 x 480	3,600
20	6	30	720 x 480	3,600
20	6	90	720 x 480	10,800
100	2	30	720 x 480	6,000
100	2	90	720 x 480	18,000
100	6	30	720 x 480	18,000
100	6	90	720 x 480	54,000

**3.3 Are DP-2 servers expandable? Will I be able to increase processing or storage capacity in the future?**

Motorola gives customers a choice of servers on which to host DP-2. While the very-low-end servers are limited in their expandability, the Dell® PowerEdge™ 2900 servers used in more robust configurations are expandable and support the addition of extra storage. These systems were specifically selected for their processing power and expandability. Your Motorola sales representative can provide you with further details.

**3.4 Can customers use their own servers on the back end, instead of purchasing them from Motorola?**

The server-based software for tracking, cataloguing, and storing DP-2 video is crucial to the smooth operation of the system. For this reason, Motorola strongly recommends that customers purchase the pre-configured, optimized server included in the DP-2 solution. Motorola offers a choice of several servers to fit your requirements and budget.

However, Motorola recognizes that some customers have existing server standards and preferences. Your Motorola sales representative can work with you to set up DP-2 software on your servers. Because of the wide variety of server hardware, software, and maintenance standards, Motorola cannot provide support for software installed on customer-supplied servers.



The DigitalPatroller DP-2 In-Vehicle Video System is part of the MOTOA4 Mission Critical Portfolio — providing real-time recordings of events outside the police vehicle for improved record keeping and documentation. It's technology that's second nature™.



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