



Mobile Video Enforcer

**Quick Reference
Guide**

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Section I: Reference

System Overview

Description

The Mobile Video Enforcer (MVE) is an advanced compact recording system designed for law enforcement patrol and surveillance activities. The integrated Mobile Digital Video Recorder (MDVR) contains both the video system as well as the storage medium (hard drive). The MDVR is “docked” in the vehicle during patrol and surveillance. It is then removed and “docked” inside your station for automatic downloading of the video evidence files.

The MDVR gives you immediate access to playback and review recorded material while in your vehicle. You can control the volume of the sound as well as the balance between the in-car microphone and the wireless microphone systems. You also have the opportunity to “classify” and “sub-classify” video evidence while in your vehicle by selecting a classification representative of the content and importance of the event. The video evidence cannot be erased or altered in any way. The MDVR can store over 25 hours of high quality video and audio (60 Gigabytes on the MDVR hard drive).

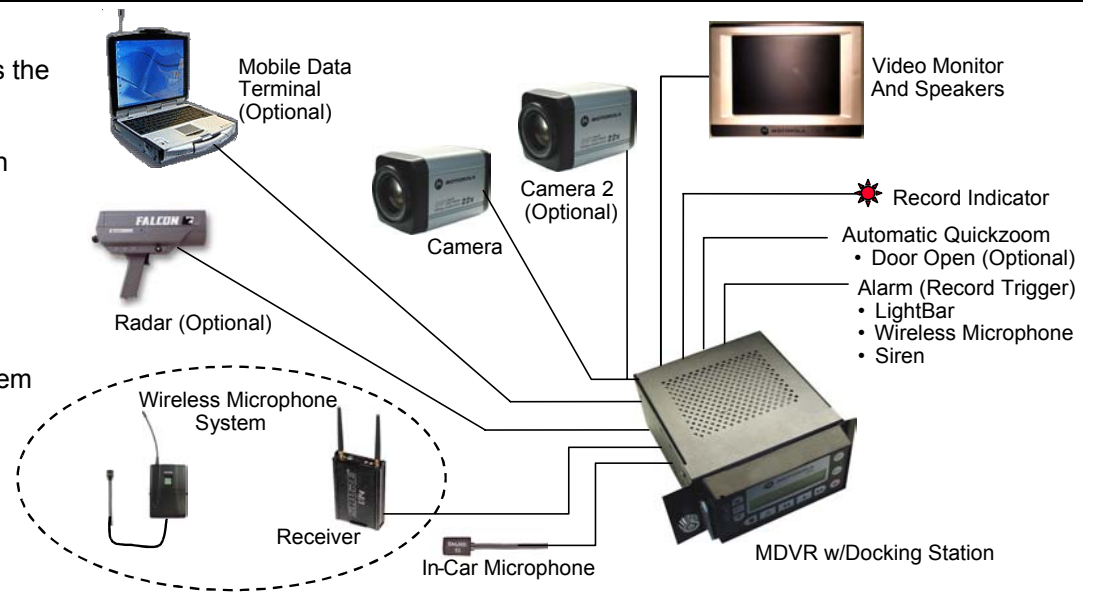
This Quick Reference Guide is divided into two sections, Reference and Operation, and is intended to provide you with the essential information for operation of the MDVR system in your vehicle.

Reference: System Overview

System Components

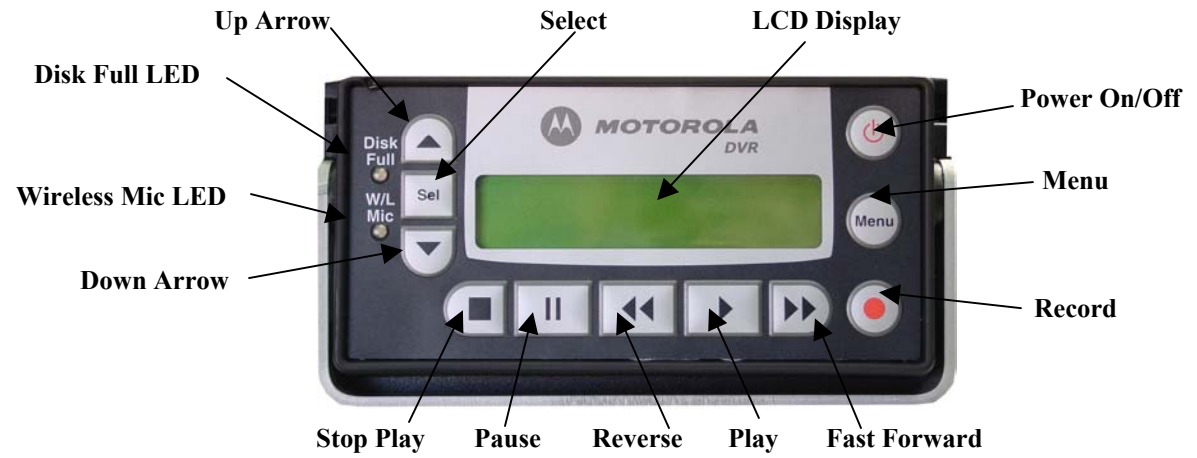
The Mobile Video Enforcer has the following components:

- Digital Video Recorder with Docking Station
- Camera
- Video Monitor
- In-Car Microphone
- Wireless Microphone System









MDVR Controls and Indicators

The Mobile Digital Video Recorder has the following controls and indicators.







Reference: MDVR Controls and Indicators

Basic Operation Buttons

Button	Ready	Video Playback
 Play	Playback currently selected file	
 Pause (then)  Fast Forward		Slow Motion Press Play to resume normal Playback. Normal Playback will automatically resume in one minute. Pressing PAUSE then FAST FORWARD 1X = Frame Forward.
 Fast Forward	Select Next File	(once) Fast Forward – 2X (twice) Fast Forward – 4X (three times) Fast Forward – High Speed
 Reverse	Select Previous File	Jump Back 10 Seconds and Resume Playback.
 Stop		Stop Playback

Multi-Function Buttons

Button	Ready or Recording	Video Playback		Playback Paused
	Manual Zoom In	Increase Volume	Balance Channel 1 (In-Car Mic)	Increase Classification or Sub-Classification (0 → 15)
	QuickZoom	(once) Volume (twice) Balance		Display Current Classification or Set New Classification
	Manual Zoom Out	Decrease Volume	Balance Channel 2 (Wireless Mic)	Decrease Classification or Sub-Classification (15 → 0)
	Switch between front and rear cameras (optional).	Pause / Freeze Frame Press MENU to Enable Video Classification		

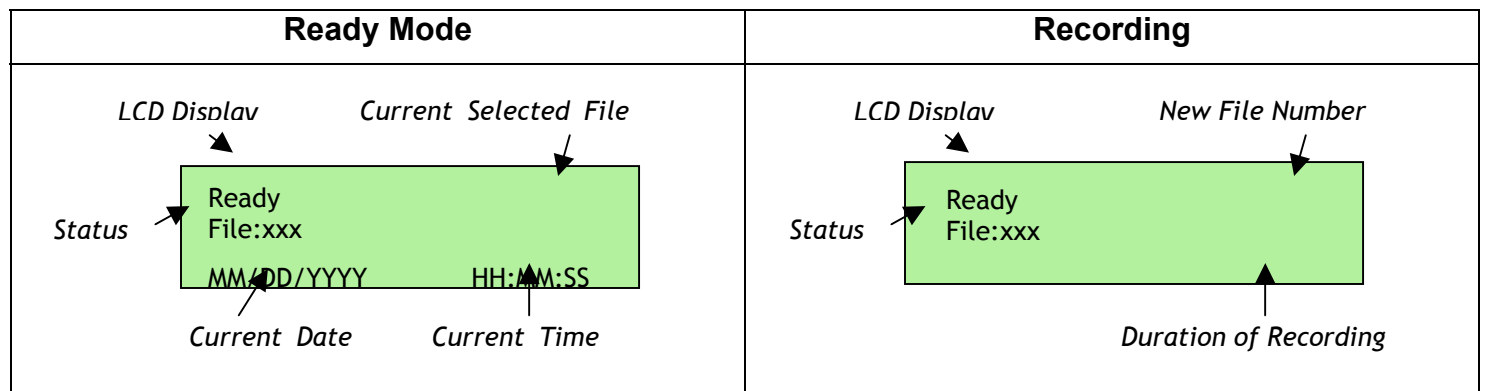
Reference: MDVR Controls and Indicators

LCD Display Messages

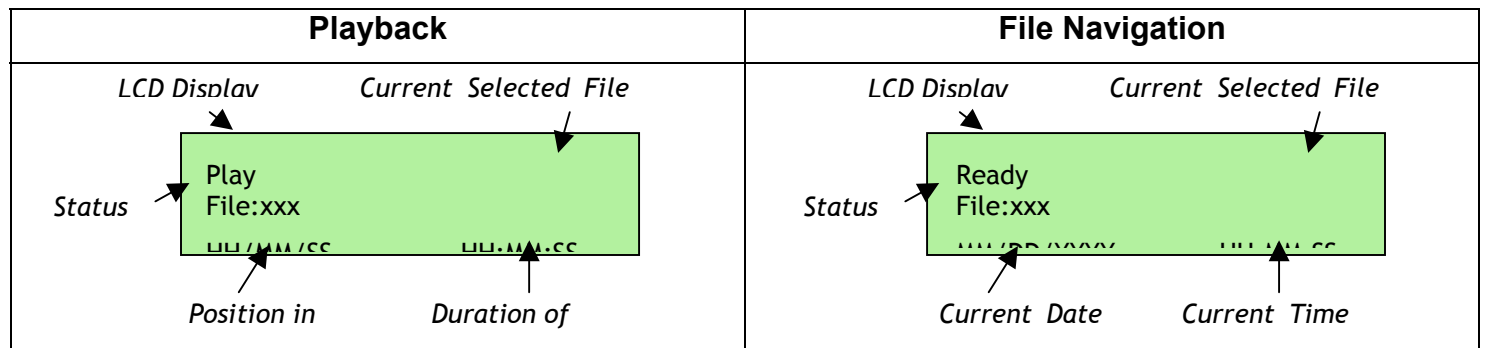
The following pages illustrate several basic states for the front LCD display on the MDVR unit. You will become very familiar with the operation of the MDVR, and these illustrations are placed here for reference purposes only.

LCD Display





Reference: MDVR Controls and Indicators



Video Monitor

The LCD video monitor is powered from the MDVR and does not have to be turned on manually.



Reference: Video Monitor

On-Screen Display

S = Siren Activated

L = Light Bar Activated

W = Wireless Microphone Activated

↑ = Camera Direction (Optional)

USER ID = Officer's Name

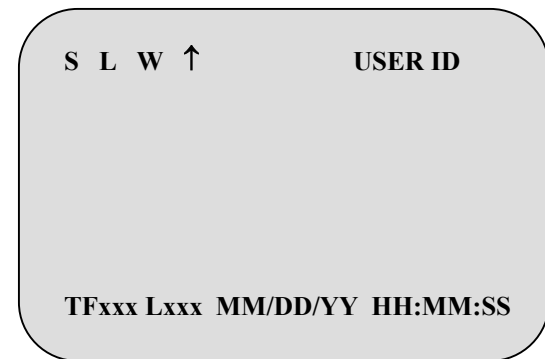
(Optional with Radar Interface)

TFxxx = Target Front, Speed in MPH

TRxxx = Target Rear, Speed in MPH

Lxxx = Locked Speed in MPH

Hld = Radar Hold



Classification Table

The following tables are only *examples*. Actual classifications are set at system configuration.

Classification	Description
0	Default
1	Traffic Stop (Routine)
2	Traffic Stop (Felony)
3	Traffic Accident
4	DUI / DWI
5	Vehicle Chase
6	Emergency Response
7	Use of Force
8	Arrest (Non-DWI)
9	N/A
10	N/A
11	N/A
12	N/A
13	N/A
14	N/A
15	N/A

Reference: SubClassification Table

SubClassification Table

Note: You will only see the Classifications and SubClassification descriptions that were set at system configuration.

SubClassification	Description
0	Male White
1	Male Black
2	Male American Indian/Alaskan
3	Male Asian/Pacific Islander
4	Male Hispanic
5	Male Unknown Race
6	Female White
7	Female Black
8	Female American Indian/Alaskan
9	Female Asian/Pacific Islander
10	Female Hispanic
11	Female Unknown Race
12	N/A
13	N/A
14	N/A
15	N/A

Section II: Operation

Vehicle Docking

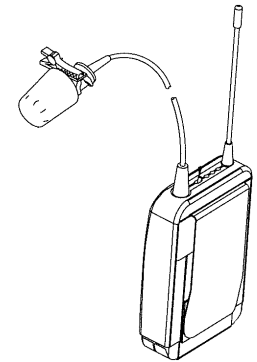
1. Slide the MDVR unit into the docking station with the handle straight out.
2. When the MDVR is fully seated in the docking station, lower the handle to latch the unit in place.
3. Secure the MDVR unit into the docking station using the Key Lock.



Wireless Microphone

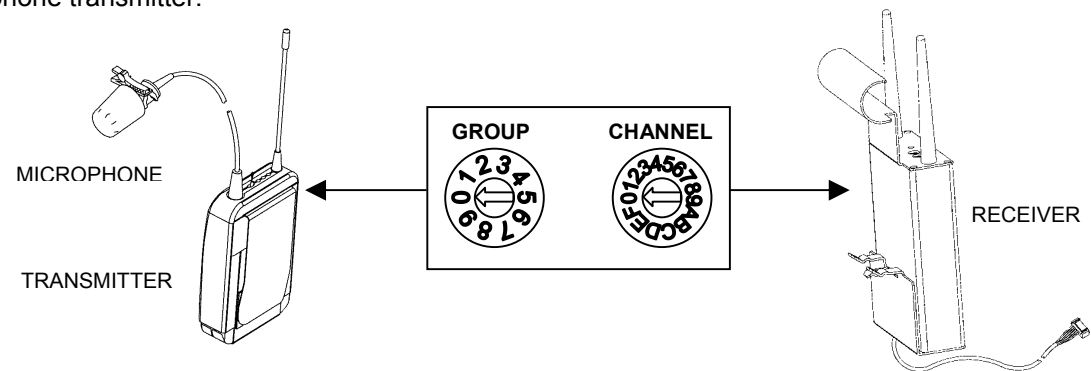
Features

- Omnidirectional microphone picks up conversation from both you and other talkers nearby
- Foam windscreen on microphone reduces wind noise
- Moisture-resistant microphone for reliable operation in extreme temperatures, humidity, and weather
- Lightweight transmitter pack with LED battery condition indicator
- Diversity receiver automatically selects the best signal from either antenna, increasing usable range
- Frequency-agile UHF transmitter and receiver can be adjusted to over 100 different operating frequencies



Group and Channel Settings

The transmitter and receiver **MUST** be set to the same GROUP and CHANNEL in order to operate together. The transmitter group and channel settings are located inside of the transmitter. Please refer to page 17 for opening the wireless microphone transmitter.



To set GROUPS and CHANNELS use a small flat-headed screwdriver. Using other objects, such as a pen or pencil, may damage the setting contacts.

Operation: Wireless Microphone

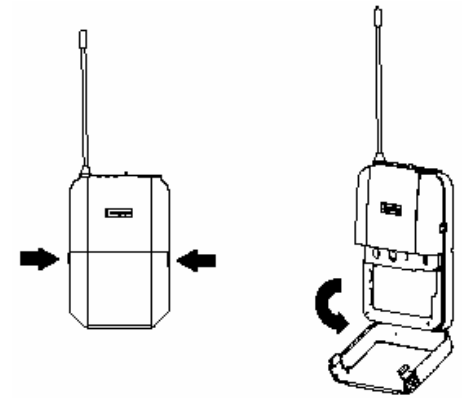
Wireless Microphone Operation

4. Attach the microphone clip to the lavalier microphone.



5. Attach the microphone to your clothing on the chest, ideally at or around the breast pocket level. It is not necessary to center the microphone on your body. The microphone is equally sensitive to sound coming from all directions, so it is not necessary to aim the microphone in any particular direction.

6. Open the transmitter battery compartment by squeezing the two tabs on either side of the transmitter. Then flip the battery cover down. Insert a fresh 9-volt alkaline battery (Duracell or similar) into the battery compartment, maintaining proper battery polarity as marked (“+/-”).
7. Insert the transmitter into the supplied transmitter pouch. Do not fold, coil, or wrap the transmitter antenna around the transmitter, and do not tuck the antenna into the transmitter pouch. The antenna must be allowed to extend away from the transmitter. Attach the transmitter pouch to the your duty belt or other clothing.



Operation: Wireless Microphone

8. Turn the transmitter ON/OFF switch to the ON position. Check the battery condition by observing the LED battery indicator on the top of the transmitter. The amount of battery life remaining is indicated by which LED is illuminated, as shown in the table below:

LED Color	Estimated Operating Time Remaining
Green	6 to 8 hours
Amber	45 minutes to 2 hours
Red	45 minutes or less


Testing

1. Open the transmitter battery compartment cover and insert a fresh 9-volt alkaline battery.
2. Turn the transmitter ON/OFF switch to the ON position.
3. Check the battery condition by observing the LED battery indicator on the top of the transmitter.
4. Check the W/L MIC LED on the keypad of the MDVR; it should be illuminated.
5. Check the On-Screen-Display on the Video Monitor; it should show a W in the upper left hand portion of the screen.
6. Make a test recording. Speak into the microphone then press STOP on the MDVR and press the PLAY button to view and hear the video.

Power On/Off

Power On

The MDVR unit must be completely docked before it can be powered on.

Powering On the System takes less than one minute. Press the POWER  Button for approximately two seconds. You should see:

- the LCD Display's Backlight will flash
- the Disk-Full and Wireless Mic LEDs will flash
- the Disk Full LED will illuminate for about 10 seconds
- "Initializing MDVR ..." will appear on the LCD Display
- the Backlight will flash several times and then illuminate
- finally, the LCD will display "Ready Mode."

The camera, wireless microphone receiver, and monitor are powered from the MDVR and do not need to be turned on manually.

Power Off


Press and hold the POWER  button for two seconds

- “Powering Down...” message will display briefly.
- The unit will power down, the LCD display will go blank.

You may now unlock and lift the handle and remove the unit from the docking system.

Ignition Sense

Optionally, your DigitalPatrol MDVR can detect whether your vehicle’s ignition key is on or off. This feature is called “Ignition Sense.” If the MDVR is docked in your vehicle, the MDVR can automatically power on when the ignition key is turned on. Then when you turn the key off, the MDVR will remain powered on for up to 15 minutes. At the end of that time, the MDVR will automatically power off. To avoid this power-off, you need to turn your ignition back on.

At any time, you can manually power off the MDVR by pressing the POWER  button.

This feature can be enabled during the system configuration.

Recording

Pre-Event Recording

Your MDVR is equipped with a feature called “Pre-Event Recording”. Pre-Event Recording will capture up to 30 seconds of video evidence prior to your initiation of the recording. After you witness an infraction, simply start the recording and begin your pursuit. The MDVR will capture the incident in the video evidence. With this feature you do not need to initiate recording and wait for a second infraction. No additional steps are required to take advantage of Pre-Event Recording.

Some specific uses of Pre-Event Recording include:

- Establishing probable cause for suspected DWI/DUI stops when you initially see a motorist driving erratically or not maintaining lane control.
- Observing a motorist who fails to stop at a stop sign or a red traffic light.
- Observing a motorist who fails to stop for a stopped school bus.
- Identifying a speeding motorist who is being tracked and locked on radar.

Automatic Recording

The MDVR will immediately begin recording when you activate any of the following equipment:


- Light Bar
- Siren
- Wireless Microphone

Automatic recording will override any other activity such as playback or viewing the operating menus.

Manual Recording

You can begin recording at anytime by pressing the RECORD  Button.

Stop Recording

Pressing STOP  will end the current video recording, whether the recording was started automatically or manually






Long Recordings / Multiple Files

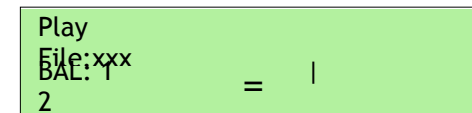
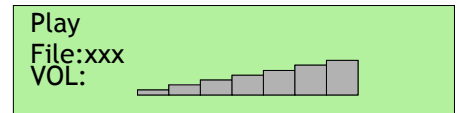
In certain cases, you may require the MDVR to record for an extended period of time. For example, during a high-speed highway chase, the total incident may last an hour. The MDVR has certain limitations in regard to the size of the files that it can record. However, it also handles situations like this in the following manner:

- Individual video files can contain up to 30 minutes each.
- Longer continuous recording times will create multiple files within the MDVR.
- Each file will be sequentially numbered, for example:
 - You have nine (9) video files on the MDVR (including the TEST VIDEO).
 - You begin a new recording that lasts about one hour.
 - You will create files 10, 11, and possibly 12.
 - When you stop the recording, the current file number will indicate the beginning of the incident (File 10) automatically.
- When classifying the incident, be sure to classify the first file number in the incident.
- When the incident is uploaded to the evidence library, all of the files associated with the incident will be treated as one event.

Playback



Audio Controls

1. To adjust the VOLUME, Press the UP ARROW  to raise the volume, and the DOWN ARROW  to lower the volume.
2. Press SELECT  to change between Volume and Balance
3. To adjust the Balance, Press the UP ARROW  to increase Channel 1 and the DOWN ARROW  to increase Channel 2. As you press the up and down arrows the equal sign (=) will move to the left and right indicating the audio balance level. Channel 1 is the in-car microphone, and Channel 2 is the wireless microphone.



File Navigation




The MDVR always has at least one video file. File 001 is a Test Video.

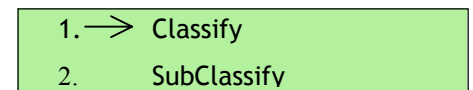
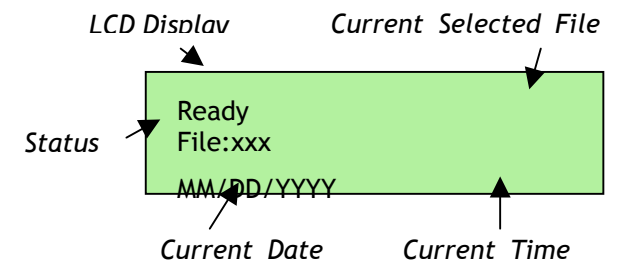
- Press  to go to the Previous File.
- Press  to go to the Next File.





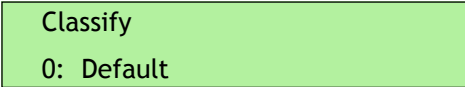



Classifying an Incident

You can “Classify” video evidence by selecting a Classification and SubClassification representative of the content and the importance of the incident. If video evidence is not classified, it will be marked “0: DEFAULT.”

To classify the currently selected file:

1. Press PLAY  and then press PAUSE .
2. Press MENU  to enter the Classification Settings Menu.







3. Use the UP ARROW  and DOWN ARROW  buttons to select “Classify” or “SubClassify”, then press SELECT.
4. Use the UP ARROW  and DOWN ARROW  to select the desired classification or subclassification. 
5. Press SELECT  to save the new value. If you do not press SELECT  within the allotted time, the classification for this video will not be changed, and you will exit the Classification Menu and return to PAUSE Mode.
6. Press MENU  at any time to exit the Classification Menu.

Repeat these steps as needed.

Menu

Accessing the Main Menu List




1. Press the MENU  button to access the main Menu list.
2. Use the UP ARROW  and DOWN ARROW  buttons to navigate the main Menu list.
3. Press the SELECT  button to enter that Menu item.

Main	1	→	View Video
Menu	2		View Status
	3		Select User
	4		Archive
	5		Zoom Settings

Note: The main Menu list contains a number of items, but only two will display on the LCD.

1 View Video

Use VIEW VIDEO to select previously recorded files.

- File number 001 is a TEST VIDEO.
- Files are listed with the most recent file at the top of the list (highest number).
- To select a file, use the UP/DOWN Arrow  and press SELECT .
 - The selected file will begin playing automatically.
- Press MENU  if you wish to exit without selecting a new file.

Main	1	→	View
Menu	2		View Status
	3		Select User
	4		Archive
	5		Zoom Settings

3 MM/DD HH:MM
2 MM/DD HH:MM

View	1	→	Test Video
Video	27		MM/DD HH:MM



File Number → 26 MM/DD HH:MM
25 MM/DD HH:MM



Operation: Menu

2 View Status

Use VIEW STATUS to view the:

- Unit ID
- Software Version
- Recording Capacity (Time Remaining)
- Radar Interface (Optional)
- Second Camera Feature (Optional)

Press the UP ARROW  or DOWN ARROW  to scroll through the complete status for the MDVR.









Press the SELECT  button or the MENU  button to return to the Main Menu.

Main	1	View
Menu	2	View Status
	3	Select User
	4	Archive
	5	Zoom Settings

User ID: XXXXXXXX
SW Ver #:
Time Rem: HH:MM
Radar Configured / Radar Not
One Camera Attached / Two Cameras
Attached

3 Select User

The MDVR can be assigned to a single user or a group of users who may share a vehicle. Select User will contain a list of groups, each containing individual users to whom the unit is assigned.


- Press the MENU  button, scroll down to Menu Item 3, and press the SELECT  button.
- Use the UP ARROW  and DOWN ARROW  to scroll through the list of Groups. Press SELECT  to select your Group Name.
- Use the UP ARROW  and DOWN ARROW  to scroll through the list of users. Press SELECT  to select your User Name or ID.

Main	1	View
Menu	2	View Status
	3	→ Select User
	4	Archive
	5	Zoom Settings

Select Group:
XXXXXXXX

Select User:
XXXXXXXX

Operation: Menu

- Press MENU  at any time to exit Select User without making a selection.

The assigned/selected User will be associated with all video evidence recorded during the period of assignment, and the On-Screen-Display will show the assigned User's Name or ID in the video image.

If a single user is assigned to a MDVR, SELECT USER has no purpose.

4 Archive

Use Archive to determine:

- The last time the unit was docked and video files downloaded.
- Which archive server name the MDVR will search for when downloading.

Main	1	View
Menu	2	View Status
	3	Select User
	4	Archive
	5	Zoom Settings

LastDock	MM/DD HH:MM
ServerID	SVR NAME XXXX

Operation: Menu

5 Zoom Settings

Use Zoom Settings to adjust and save the settings for QuickZoom. Follow the LCD Display instructions.


Note: The camera has a very powerful digital zoom, do not zoom the camera all the way in, or the vehicle you are behind will not be in the field of view. You can test your Quickzoom settings from Ready Mode. Instructions can be found in the following section.

	1	View
	2	View Status
	3	Select User
	4	Archive
Main	5	→ Zoom Settings
Menu	1	View

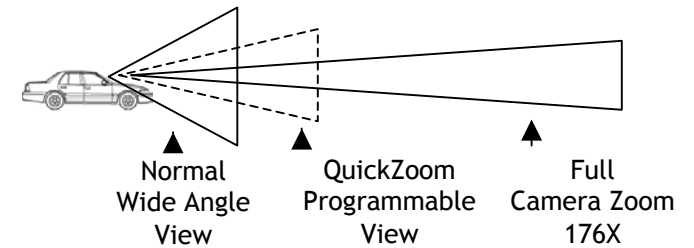
SET	Zoom in
ZOOM	and
	Press 'SEL'

Using Quickzoom

Quickzoom is an easy to use, one-key-press feature that will ensure a detailed image of the vehicle's license plate. Additionally, Quickzoom will adjust the camera shutter and aperture settings to reduce nighttime glare and reflection from the rear and license plate of the subject automobile.

To use Quickzoom, simply Press the SELECT  button at any time while recording or in Ready Mode. The camera will automatically zoom up to a close image of the vehicle ahead, focus on the vehicle, hold that position for two seconds, and then return to a full scene. You can adjust the amount of zoom used for Quickzoom.

(Optional) A Quickzoom can also take place automatically when the driver's door is first opened while recording. This feature will allow you to concentrate on the traffic incident, and not on the video evidence.




Other Operational Features

Disk Full Warning

- The DISK FULL warning LED will blink when there is one (1) hour of recording capacity remaining.
- The DISK FULL warning LED will illuminate (without blinking) when there are 30 minutes of recording capacity remaining.
- Recording will stop when the disk is full and cannot overwrite files currently on hard drive.

Automatic Record Zoom Out

- If you have adjusted the camera view (Zoom) to observe specific activity, the camera will automatically zoom out to a full view if recording is initiated by one of the automatic triggers (Siren, Light Bar or Wireless Microphone).
- If you want the camera to maintain its current zoom setting, begin recording manually using the RECORD  button.