

# In-Car Digital Video Recorder



# User's Guide version 3.1.x



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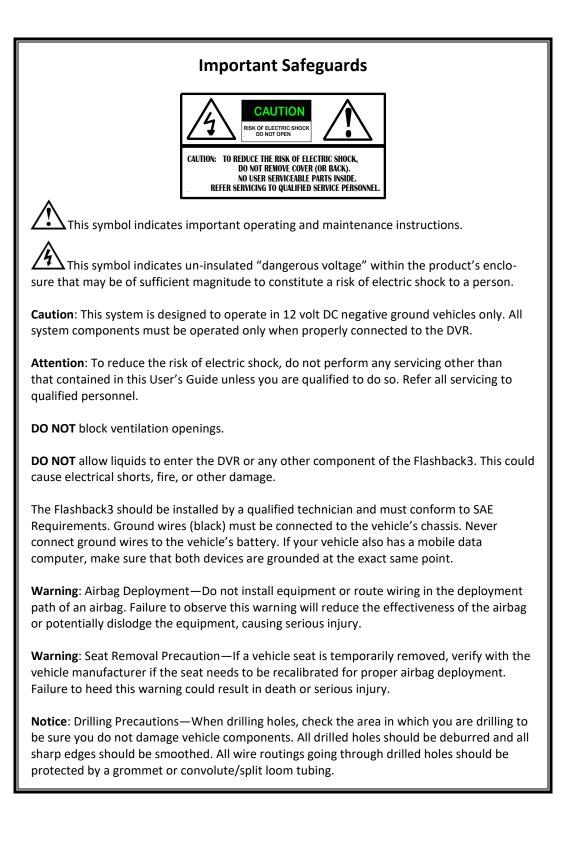


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#### Introduction

The Flashback3 is an in-car digital video recorder that can be installed inside a patrol car and/or interview room. This recorder collects video evidence and stores it temporarily on an SD card until the video can be transmitted to a storage server back at your agency or precinct. The Flashback3 is part of L-3 Mobile-Vision's *digital evidence collection system*. This system is comprised of multiple *in-car* and *back-office* components, as described below.

*In-car* Flashback's in-car components include the DVR, DVR monitor, Nite-Watch camera, *components* Backseat camera (optional), Bullet cameras (optional), and VoiceLink Plus wireless microphone. You may also purchase an optional vehicle crash sensor called the *CrashBat2*.

*Back-office* Flashback's "back office" components are housed in or around the agency or precinct building and typically include a storage server, robotic disc burner, PC workstation (used to control the disc burner), Digital Evidence Series software, and one or more *access points* (for more on access points, see Glossary).

The manner in which you manage your Flashback3 videos depends on the type of Digital Evidence software that you purchased. Some systems, such as Digital Evidence Pro (DEP), communicate wirelessly with a Linux storage server at your agency or precinct. Other systems, such as Digital Evidence Viewer (DEV), require that you manually upload your videos to a Windows PC using an SD storage card.

This user manual covers the Flashback **in-car** components only. For more information on the **back office** components, refer to the software documentation that came with your digital evidence collection system. For example, if you are using Digital Evidence PRO, see the *DEP User's Guide* or *DEP Administrator's Guide*.

#### Flashback3 In-Car Components





#### **DVR Operating Modes**

Some of the buttons on the Flashback DVR and monitor are used for different functions depending on what mode the DVR is in.

Mode	Description
Idle Mode	The DVR is not recording or playing back a video.
Record Mode	The DVR is recording a video.
Play Mode	The DVR is playing back a recently recorded video.
Menu Mode	The DVR's menu functions are displayed.

# **Front Panel of DVR**





1

5

**IN USE** display. An LED light that denotes DVR activity. When this light is on, **do not** remove the SD card or your files may be lost!

2 AUTO/OFF. The manual power switch. Because the Flashback3 is designed to automatically power on and off, this switch is normally left in the AUTO position. **Do not** turn this switch off unless instructed to do so by an L-3 Mobile-Vision procedure or Service Technician.

**3** MENU. The *Menu* button, used to access the DVR programming options. You can also access this menu by pressing the **(b**) button on your Flashback monitor when the DVR door is open.

**4 REC.** The *Record* button. If you are in *Idle* mode, this button is used to initiate a recording session. If you are in *Record* mode, this button is used to toggle the in-car microphone off/on. If you are in *Menu* mode, this button is used to select the highlighted menu item or field. You can also perform these tasks by pressing the R button on your Flashback monitor.

**STOP**. The *Stop* button. If you are in *Record* mode, this button is used to stop a recording. If you are in *Play* mode, this button is used to stop a video playback



session. If you are in *Menu* mode, this button is used to move the cursor up. You can also perform these tasks by pressing the  $\bigcirc$  button on your Flashback monitor.

**5 TRACE.** The *Trace Point* button. If you are in *Idle* mode, this button is used to display the Login/Logout menu. If you are in *Record* mode, this button is used to mark a position, or point, in a recording. If you are in *Play* mode, this feature is used to quickly advance to a previously marked Trace Point. You can also set or advance to a Trace Point by pressing the **(f)** button on your Flashback monitor.

**7 REW.** The *Fast Rewind* button. If you are in *Idle* mode, this button is used to toggle the monitor display between Channel 1 (Nite-Watch camera) Channel 2 (Backseat and Bullet cameras). If you are in *Play* mode, this button is used to rewind slowly (press *once*) or quickly (press *twice*). If you are in *Pause* mode, this button is used to rewind one frame at a time. If you are in *Menu* mode on a field value, this button is used to display the previous field value. You can also perform these functions by pressing the

**PLAY/PAUSE.** The *Play/Pause* button. If you are in *Idle* mode, this button is used to display the *Playlist* directory. If you are in the *Playlist* directory, this button is used to select the highlighted video. If you are in *Play* mode, this button is used to either toggle the video *pause* function on/off (press and release button) *or* display the Select Source menu (press and **hold** button). If you are in *Menu* mode, this button is used to move the cursor *down*. You can also perform these functions by pressing the D button on your Flashback monitor.

**9** FF. The *Fast Forward* button. If you are in *Play* mode, this button is used to advance slowly (press *once*) or quickly (press *twice*). If you are in *Pause* mode, this button is used to advance one frame at a time. If you are in *Menu* mode on a field value, this button is used to display the next field value. If you are in *Menu* mode on a menu screen, this button is used to select the highlighted menu option. You can also perform these functions by pressing the  $\bigcirc$  button on your Flashback monitor.

- **10 PWR**, **REC**, and **PLAY** indicators. LED lights used to indicate if there is currently power to the unit (PWR), a recording session in progress (REC), or a playback session in progress (PLAY).
- 11 USB. The input port for the USB login key—a memory stick that contains the user's name. For instructions on logging into the DVR, see "Logging into a DVR Using Your USB Login Key" on page 20.
- 12 The Secure Digital (SD) card, used to temporarily store your Flashback videos until they can be transmitted to your agency's application server or PC.
- **SD** CARD. The input slot for the SD storage card.
- **14 DVR DOOR.** The access door for the DVR's manual power switch, SD card, and Flashback menu. This door can only be opened with a key. Depending on your agency's policies, only a limited number of supervisors and/or IT personnel may have access to this key. To access the DVR menu options, this door must be *open*. To record or play back a video, this door must be *closed* and *locked*.



# **Rear Panel of DVR**

	VIDEO IN VIDEO OUT VIDEO OUT V
1	GPS ANT. Input for GPS wire on antenna
2	W-LAN ANT2. Input for W-LAN2 wire on Dual WiFi/GPS antenna
3	<b>W-LAN ANT1</b> . If you've purchased the standard WiFi/GPS antenna, this is the input for the <i>W-LAN</i> wire. If you've purchased the Dual WiFi/GPS antenna, this is the input for the <i>W-LAN1</i> wire.
4	<b>CAMERA 3-5</b> . Input for 15-pin D connector used to connect up to three Bullet cameras using a special three-camera breakout cable
5	CAMERA 1. Input for forward facing Nite-Watch camera
6	CAMERA 2. Input for optional Backseat camera
7	MONITOR. Connection for Flashback monitor (from REMOTE connector)
8	LAN/USB. Input for ethernet LAN cable (top) and USB drive (bottom)
9	REMOTE. Connection for Flashback monitor
10	RADAR. Input for radar unit
11	<b>POWER &amp; INPUTS (12VDC, max 5A)</b> . Connection for main harness, which houses the following wires: <i>power, ground, lights, siren interface, brakes input, ignition input, chassis ground, and auxiliary inputs</i>
12	VLP1. Input for VLP2 charging station
13	VLP2. Input for second VLP2 charging station
14	IN-CAR MIC. Input for wired rear seat microphone







Monitor



**Back Seat Camera (optional)** 



**Nite-Watch Camera** 



**Bullet camera (optional)** 



CrashBat2 Crash Detector (optional)



**VoiceLink Plus Wireless Microphone** 

Standard WiFi/GPS Antenna



Dual WiFi/GPS Antenna (upgrade)



# **DVR Monitor**

Your Flashback3 camera comes with a 3.5" matrix monitor console, pictured below. This monitor is used to control the DVR, view recordings in progress, view untransmitted recordings, and set DVR preferences.



#### **Monitor Buttons**

The monitor buttons are described in the following table.

	Button	Used to
		While in Idle mode: Display the Login/Logout menu.While in Record mode: Mark a position in a recording, referred to as a Trace Point.
		<u>While in <i>Play</i> mode</u> : Advance to a previously marked Trace Point while playing back a video, or toggle between the "image" and "text" views while on the Playlist screen.
		You can also perform these tasks by pressing ① on your DVR.
		Access the DVR menu when the DVR door is open. You can also access this menu by pressing (1) on your DVR.
ttons ffect	*	Increase brightness of monitor display
nitor t the {	*	Decrease brightness of monitor display
ss or f the		Increase audio playback volume
l file		Decrease audio playback volume
	R	While in Idle mode:Begin recordingWhile in Record mode:Toggle the in-car microphone off/onWhile in Menu mode:Select the highlighted menu item or field
		You can also perform these tasks by pressing (2) on your DVR.

These buttons only affect the monitor display, <u>not</u> the brightness or volume of the recorded file



Button	Used to
0	While in Record mode:Stop a recordingWhile in Play mode:Stop a video playback sessionWhile in Menu mode:Move the cursor up the menuYou can also perform these tasks by pressing on your DVR.
	While in Idle mode: Display the Playlist directoryWhile in Playlist directory: Select highlighted videoWhile in Play mode: Toggle video pause function on/off (press and release button), or display the Select Source menu (press and hold button).While in Menu mode: Move the cursor down the menu You can also perform these tasks by pressing m on your DVR.
	<ul> <li>While in <i>Idle</i> mode: Toggle monitor display between Channel 1 (Nite-Watch camera) and Channel 2 (Backseat and Bullet cameras).</li> <li>While in <i>Play</i> mode: Rewind slowly (press once) or quickly (press twice)</li> <li>While <i>playback</i> video is paused: Rewind one frame at a time</li> <li>While in <i>Menu</i> mode on a field value: Display previous field value <i>or</i> lower the numeric value of a field segment (while in a multi-part numeric field, such as a <i>date</i>).</li> <li>You can also perform these tasks by pressing  on your DVR.</li> </ul>
	While in Play mode: Advance slowly (press once) or quickly (press twice)         While in Menu mode on a menu screen: Select highlighted menu item         While in Menu mode on a field value: Display next field value or increase the numeric value of a field segment (while in a multi-part numeric field, such as a date).         You can also perform these tasks by pressing ▶ on your DVR.
AUTO	While in Idle mode: Turn Auto mode off/on. For more information on this feature, see "What is Auto Mode?" on the next page.While in Play mode: Toggle the monitor display on/off.



What is Auto Mode? Auto Mode is similar to the "Sleep" function on a computer. It turns the monitor display *off* when the unit is idle, thus saving power. By default, Auto mode is *on* whenever you login to your Flashback3. If you prefer to keep your monitor display on *continuously* even when the unit is in *Idle* mode, press the the work of the Auto button light turns *off*.

#### Using DVR Buttons vs. Monitor Buttons

Because some of our customers mount their DVRs in the trunk of their vehicles, all of the buttons on the Flashback DVR are repeated on the Flashback monitor.

DVR	Monitor
	Ø
R	R
	0
$\bigcirc$	Ô
**	Ø
	SD
44	Ø

**NOTE:** If you purchased the optional Vehicle Viewer or Vehicle Viewer Live application, you can also access these buttons from the Vehicle Viewer (Live) main menu.

There is no difference between pressing a button on the Flashback DVR and pressing the equivalent button on the Flashback monitor. However, for brevity, all button references in this manual will picture the *monitor* buttons.

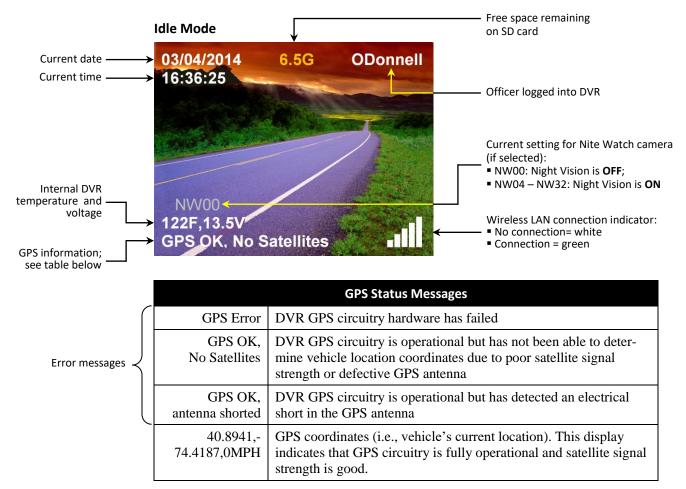


#### Monitor Display

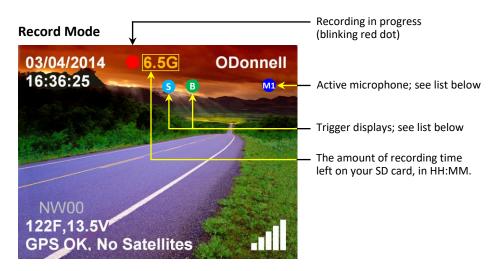
This section describes the meaning of the various symbols and indicators that display on your Flashback monitor. Displays will vary based on what mode you're in and what *display* options you've selected. For example, the Wireless LAN connection indicator in the lower right corner of the screen will not display unless the value of the *WLAN display* field is set to **ON**.

Main Menu > System > Display	6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

For more information on this and other display options, see "Changing Display Options" on page 110.







How do I know when the SD card is full? Thirty minutes before your SD card runs out of space, an audible "beep" will sound and the recording time indicator will turn red. Once the card is completely full, the word **FULL** will display at the top of the screen.

Trigger Displays	
Display	Description
L	Emergency lights are on
в	Brakes are engaged
S	Siren is on
<u>A1</u>	Aux 1 device is engaged
A2	Aux 2 device is engaged
	Active Microphones
<u>M1</u>	The wireless microphone connected to input port VLP 1 is on
M2	The wireless microphone connected to input port VLP 2 is on
M3	The in-car microphone is <i>on</i>

#### Play Mode





# **Nite-Watch Camera**

The Nite-Watch camera is typically mounted in the front of your vehicle, attached to the windshield. It includes a night vision feature which enables you to "see" in even the dimmest of lights.



To adjust this camera and move in/out of various settings, use the buttons on the rear of the camera, as described below.



**Auto Zoom**. Zoom in to 8x, pause, then return to a wide-angle view. This function is designed to zoom in on a license plate.

**B** AZ

**Auto Focus**. Manually focus the camera. When the camera is first powered on or a Zoom function is activated, the camera will *automatically* focus on the displayed image. However, if the focus is not perfectly clear, you can use this Manual Focus feature to enhance the picture.



**Zoom In**. Zoom in up to 144x. To use this feature, press and hold the *Zoom In* button, then release once you achieve the desired camera view.



**Zoom Out**. To use this feature, press and hold the *Zoom Out* button, then release once you achieve the desired camera view.



**Backlight**. Lighten darker images. This function is useful when the camera is facing into a setting sun.



**Nite-Watch**. Activate night vision. This feature allows you to "see" in the dark. Four settings are available: NW4, NW8, NW16, and NW32. NW4 can be used while the vehicle is moving. However, moving objects may appear blurred. The other settings should only be used while the vehicle is *stationary*.



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**Light**. Back light the camera buttons. By default, camera buttons will be illuminated each time the system is powered on. However, you may wish to turn these lights off occasionally, such as in a "lights out" situation.

#### **Backseat Camera**

The optional backseat camera is typically used to record suspects seated in the backseat of the vehicle. However, you may also point this camera towards the *front* of the vehicle. If the camera is installed *rear-facing*, make sure the camera's mirror switch is in the *On* position, as pictured below. If the camera is installed *forward-facing*, make sure the mirror switch is in the *Off* position.



Backseat Camera

#### **Bullet Camera**

The optional Bullet camera is a small, cylindrical camera that enables you to capture

video from several different angles. The Flashback3

supports up to three Bullet cameras, all of which use Camera



Bullet camera

Channel 2. You connect these cameras to your Flashback using a special 3-cable connector.

#### Antennas

During installation, your Flashback3 installer will drill a hole through the roof of your vehicle and mount one of two antennas: our standard *WiFi/GPS* antenna, or the faster *Dual WiFi/GPS* antenna, which is an optional upgrade. These antennas are used to:

- □ Wirelessly connect to your agency's internal network
- □ Capture GPS satellite data.

Please note that 'N' download speeds can only be achieved with the Dual WiFi/GPS antenna.

Peripherals VLP2 Wireless Microphone





Dual WiFi/GPS Antenna (optional)



Standard WiFi/GPS Antenna

#### **VLP2** Wireless Microphone

The VoiceLink Plus wireless microphone or "VLP2" is used to initiate a recording while you are outside your vehicle. If there are two officers sharing one vehicle, you may purchase a second VLP2.

The VLP2 comes with a docking station that has an antenna attached to it. The antenna is used to communicate with the DVR. In order for the device to operate, the VLP2 must be synchronized with the docking station.

To remove the VLP2 mic from the docking station, simply tilt it *forward*, then lift *up*.



# Requirements for Successful Recording Using the VLP2



When using your VLP2, please keep the following requirements in mind:

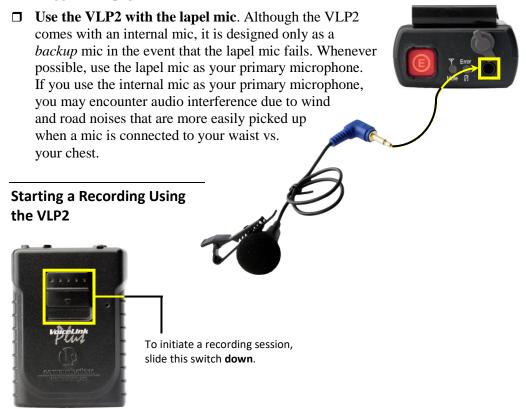
- Remain within transmission range of the docking station. If your VLP2 battery is fully charged, the transmission range is a maximum 1000 feet. If your VLP2 battery is *not* fully charged (common scenario), the transmission range range is proportionally shorter. Whenever you move outside of range, the unit will vibrate *three times*.
- □ Keep the Power switch in the 'On' position when using. It's recommended that you leave the VLP2 power switch *on* for the duration of your shift, as pictured right. This switch is located at the base of the mic.



(Continued)



- □ Avoid metal barriers between the wireless mic and the docking station. The wireless mic uses a "line of sight" signal. Physical barriers, particularly *metal* barriers, can interrupt this signal. Since your vehicle is made of metal, it's important to mount the VLP2 above the dashboard line so that the signal does not have to pass through metal. Also, do not try to record while your vehicle is above or below you, as this forces the signal to pass through the vehicle's undercarriage or roof, respectively. For example, if you are standing on an overpass and your vehicle is parked *under* the overpass, this creates a metal barrier, as the signal has to pass through the roof of your vehicle.
- □ Avoid multiple non-metal barriers between the wireless mic and the docking station. If you walk indoors while a recording is in progress, multiple walls can interrupt the signal between the wireless mic and the docking station.
- □ Always maintain a strong battery charge. For more information, see "VLP2 Battery Considerations" on the next page.
- Configure your VLP2 as a record trigger on the Flashback3. If you are using the Fleet Management feature, see "Changing the Triggers for a Flashback DVR that is Not Assigned to a DVR Group" or "Changing the Triggers for a Flashback DVR Group" in the DVRs chapter of your DES Administrator's Guide. If you are not using the Fleet Management feature,, see "Selecting & Configuring Record Triggers" on page 84.



To *start* a recording, slide the VLX switch *down*. The unit will vibrate *once*, indicating that you have successfully initiated a recording. To *stop* a VLX initiated



recording, press **O** from the Flashback monitor or DVR. The unit will vibrate *twice*, indicating that you have successfully ended the recording.



**HINT**: If you receive any audio feedback after activating the microphone, use the D button on your Flashback monitor to decrease the volume slightly.

**WARNING**: If you feel two short vibrations approximately 10 seconds after you initiate a recording, it indicates that the recording has stopped. This typically occurs because you left the DVR door open.

#### Using the "Short Mute" Feature

If you hold the **Record** switch *down* while a recording is in progress (see illustration on the previous page), it will mute the audio until you release the switch.

#### **Using the Emergency Button**

Optional feature; must be configured with your agency's radio

If your agency has chosen to use the Emergency button feature, pressing this button will automatically transmit an emergency signal to the docking station's emergency port (see also "Docking Station Ports" on page 17). This port connects the DVR to your agency radio, thus enabling you to secretly transmit an emergency signal to your agency or precinct.



#### **VLP2 Battery Considerations**

Your VLP2 comes with a rechargeable battery. To recharge the battery, first turn off the Power switch at the base of the wireless mic, then place it in the docking station *or* indoor charger. If you are using the docking station, your vehicle must be *on*.

It can take several hours to fully charge a battery. Once a battery is fully charged, the charge will last approximately 50 hours in *Stand-By* mode or 10 hours in *Record* mode.

Tips for battery maintenance and care:

- □ When you're on duty, put your VLP2 back in the Docking Station if you're not using it.<sup>+</sup> As with an in-car cell phone charger, the Docking Station allows you to recharge the VLP2's battery whenever your vehicle is *on*.
- □ When you're *not* on duty, remove the VLP2 from the vehicle and place it in the indoor charger. Don't leave the VLP2 in your vehicle or the battery will run down. Also, prolonged exposure to extreme heat or cold may damage the battery and/or decrease its lifetime. The recommended operating, charging, and storage temperature for the battery is between -4° and 113°F.
- Replace the battery every 18 24 months. All rechargeable batteries wear out with time, usage, exposure to heat and cold, etc. We recommend that you replace your battery *before* it wears out. There are two options for replacing the battery: 1) Have us do it—call *Service* at 1-800-336-8475 for a return authorization number, or 2) Do it yourself—call *Sales* and submit an order for part number

<sup>&</sup>lt;sup>+</sup> Unless the temperature in the vehicle is too hot (113° or higher) or too cold (-4° or lower).



MVD-VLP2-BAT. Once the new battery arrives, use a 1.5mm (metric) Allen wrench to open the VLP2 case and replace the old battery.

□ **Handle with care**. Take care not to drop or mishandle your VLP2, as this may damage the battery and/or the unit itself.

For information on L-3 Mobile-Vision's warranty and replacement options regarding VLP2s, refer to the Flashback Digital Evidence Collection System warranty.



#### VLP2 Light Indicators

On the top of the VLP2, there are two light indicators: the *Mute/Sync* indicator, and the *Error/Battery* indicator, pictured left.

These light indicators and their meaning(s) are described in the following table.

Indicator	Color	Meaning
Solid green		Signal between the wireless mic and docking station is good. The two devices are in sync.
Mute	Blinking orange	Audio is temporarily muted. This occurs when you hold the Record switch <i>down</i> while a recording is in progress.
Mute	Blinking red	Signal between the wireless mic and docking sta- tion is marginal and audio is likely interrupted. This occurs because you are nearly out of range or there is a barrier of some sort (metal, for example) interrupting the signal from the mic to the docking station. To regain a reliable audio connection, move back within range of the docking station. If the SYNC light blinks green four times and then stops, you have successfully synchronized the mic with the docking station. If the SYNC light contin- ues to blink, it usually indicates that either the Power switch on the VLP2 is <i>off</i> or the VLP2's battery is dead. If, upon investigation, you find that the battery is good and the Power switch is <i>on</i> as it should be, examine the pins at the base of the charging station, pictured left. If one or more of these pins is pushed down or corroded, it could be the source of your problem. Try cleaning the pins with a clean cloth dipped in isopropyl alcohol. If that doesn't work, contact L-3 Mobile-Vision Support for assistance.
Error O Ø	Blinking red	Lapel mic has failed <i>or</i> battery is low. If the Lapel mic is shorted or the mic lead is shorted or open, the audio source will automatically switch to the unit's internal mic.



#### **Docking Station Light Indicators**

In the front of the VLP2 charging station, there are two light indicators: **SYNC** and **BATT**. These light indicators and their meaning(s) are described in the table below.



Indicator	Color	Meaning
SYNC	Green	<ul> <li>If the light blinks four times and then stops, the docking station has just synchronized with the wireless mic.</li> <li>If the light blinks continuously, the docking station is unable to synchronize with the wireless mic.</li> <li>If the light is continuous, the audio is active (i.e., a recording is in progress).</li> </ul>
BATT	Red	Wireless mic is docked and charging.
BATT	Green	If VLP2 is undocked: Docking station is powered on. If VLP2 is docked: Wireless mic is fully charged.

#### **Docking Station Ports**

There are two ports on the back of the docking station, as pictured below.



If your agency has chosen to use the Emergency button feature, use the *Emergency* port to connect the docking station to your agency radio via a phone jack cable.

Use the *Communications* port to connect the docking station to the DVR via the cable provided by L-3 Mobile-Vision.



# **Remote Record Button**

L-3 Mobile-Vision sells an optional device that enables you to press a large, lighted red push button to initiate a recording. One advantage of this device is that the Record button is large enough to press while wearing gloves. Another advantage is that the button is illuminated, making it easy for you to locate it in a low light environment. If you are interested in purchasing this device, contact your L-3 Mobile-Vision Sales Representative at 1-800-336-8475.



#### **Radar Interface**

The optional radar interface enables you to link your Flashback3 to your in-car radar detector. This enables you to display radar readings on the Flashback screen and save them as part of your videos. The format for the on-screen radar readings is **T:# L:# P:#**, where # = miles-per-hour or kilometers-per-hour. **T** stands for Target Speed, **L** stands for Locked Target Speed, and **P** stands for Patrol Speed, as described below.

- □ **Target Speed**. The MPH or KPH reading that an officer obtained after the radar device was aimed at a speeding vehicle.
- □ **Locked Target Speed**. The minimum MPH or KPH reading that the officer was looking for when the radar device was aimed at a speeding vehicle.
- **Patrol Speed**. The MPH or KPH reading of the officer's patrol car at the time a radar reading was obtained.

#### CrashBat2 Crash Detector

The optional CrashBat2 device is a sensor that's used to detect a vehicle crash and automatically initiate a recording. To do so, it draws energy from an internal battery rather than from your vehicle battery. For more information, refer to the documentation that came with your CrashBat2.





#### Configuring the DVR Menu for the CrashBat2

In order for the CrashBat2 to function properly, the *AUX1 Trigger* field on the Input screen needs to be set to **ON**. For instructions on changing this menu setting, see "Turning the Aux 1 Trigger On/Off," on page 90.

Main Menu > Recording	> Input 🛛 🕒 🥵
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

#### **Replacing the CrashBat2 Battery**

To ensure reliable performance of the CrashBat2, the manufacturer recommends that you replace the battery once every two years. To check the CrashBat2's manufacturing date, refer to the QC sticker located on the unit's top cover. To order a new battery, contact L-3 Mobile-Vision Sales at 1-800-336-8475 and order the CrashBat2 Battery Refurbish Kit, part number MVD-CRASHBAT-KT.

#### Testing the CrashBat2 Battery

To test the current condition of your CrashBat2 battery, you can perform the following test. Before you do so, make sure that your vehicle's battery is in good condition and fully charged.

- **1** Turn your vehicle ON. Keep it on for at least two hours, then proceed to the next step.
- 2 Make sure that your Flashback DVR is turned *on*.
- **3** While the Flashback is in *idle* mode (i.e., not recording or playing back video), remove the system battery input fuse, which supplies vehicle battery power to the CrashBat2. This will cause the Flashback to begin drawing power from the CrashBat2's internal battery. If the Flashback system immediately powers off, it indicates that the CrashBat2's internal battery is defective and needs to be replaced.
- 4 Reinsert the fuse.

#### Testing the CrashBat2's Crash Sensor Operation

- 1 Remove the two screws that secure the CrashBat2 to the vehicle chassis.
- 2 With all the electrical connections intact and the Flashback system in *idle* mode, place the CrashBat2 in the palm of your left hand with the mounting base facing your palm.
- **3** Take your right hand and firmly strike the top cover of the CrashBat2 with the palm of your hand. This should trigger the DVR to start recording.
- **4** Re-install the screws removed in step 1.

#### **DVR Operation**

#### **Powering Up**

The Flashback3 is designed to power on automatically whenever you turn your vehicle's ignition *on*. This is the recommended method for turning your Flashback3 on. You do not have to press any buttons.

#### Logging into a DVR Using Your USB Login Key

When more than one officer uses the same patrol car, you need a way to identify yourself to the DVR at the beginning of each shift so that your videos will be linked to you. That is what the DVR Login Key is used for. It is simply a file that contains your user information. You copy this file from the DES application to a USB memory stick, then insert the memory stick in your Flashback's USB port at the beginning of each shift.

- 1 If you have not done so already, copy your login information from the DES server to a USB memory stick. For specific instructions, see "Generating a DVR Login Key" in chapter 1 of the *DEP User's Guide* or "Generating a DVR Login Key for an Officer" in chapter 5 of the *DEP Administrator's Guide*.
- 2 Insert the USB memory stick in the Flashback's USB port.
- **3** Press **①**. The Login screen displays.

	ogin	y se		
Ok	3	anc	el	



**NOTE**: If this screen says **Logout** instead of **Login**, it means that the last officer to use this DVR forgot to logout. To fix this problem, continue with steps 4 and 5 to log the last officer out, then repeat steps 3-5 to log yourself in.



- 4 Press D.
- 5 Press **R**.
- **6** Remove the USB memory stick.

# **Starting a Recording**

Regular recordings can be initiated in one of two ways: *manually* or *automatically*. **Manual** recordings are initiated by the officer in different ways (see descriptions below). **Automatic** recordings are initiated by the DVR in response to pre-programmed "trigger" actions, such as turning your emergency lights *on*. For more information on record triggers, see "Selecting & Configuring Record Triggers" on page 84.

To manually start a recording, first check to make sure the *Verifying Storage* message no longer displays.<sup>\*</sup> Next, perform **one** of the following actions:





Press **R** on the monitor





Slide the button on the front of your VLP2 mic **down** (see **NOTE**)



**NOTE**: In order to initiate a recording from the VLP2, the device must be turned on, its battery must be charged, and it must be configured as a record trigger. For more information, see "Turning the VLP2 Microphone Trigger On/Off" on page 107.

\* Never start a recording while the *Verifying Storage* message is displayed on your Flashback monitor. Wait until the message disappears before attempting to start a recording!

**Background Record**. In addition to Regular recordings, there is a Background Record function that you can engage if you are interested in recording continuously whenever your vehicle is turned on. For more information on this feature, see "Turning Background Record On/Off" on page 48.

Whenever a regular recording is in progress, a red dot will blink on your monitor.

# Stopping a Recording & Assigning a Video Category

To stop a recording, press **O**. A list of video categories displays.



To assign the highlighted category to your video, do nothing. To assign a *different* category to your video, continue pressing  $\bigcirc$  until the desired category displays. Once five seconds have elapsed without pressing  $\bigcirc$ , the system will link the displayed category to your video.



**NOTE**: Do not hesitate too long after pressing  $\bigcirc$  for the first time. If you want to scroll through the category list, you only have five seconds to begin doing so, otherwise the first category will automatically be assigned to your video. If this occurs, however, you can still change the video's category from within the Flashback application. For more information, see "Changing a Video's Category" in chapter 2 of the *DEP User's Guide* or *DEP Administrator's Guide*.

# **Playing Back a Video**

This section describes how to view a video on your Flashback monitor *after* it is recorded but *before* it is transferred to your agency's storage server. If the video you wish to view has already been transferred, see "Playing a Video" in chapter 2 of the *DEP User's Guide* or *DEP Administrator's Guide* instead.



You can now play back a video while a recording is in progress.

- 1 Make sure the door to your DVR is locked and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **SO**. A list of video files will display in either *image* view or *list* view, as pictured on the next page. These are all the files that have been recorded since your last transmission.
- **3** To toggle back and forth between *image* view and *list* view, press **()**.



Playlist	1 of 5	3
NOC CONTRACTOR	06/18/13 03:29:36 0 Minutes 53 Seconds No Citation	
	06/18/13 01:15:46 0 Minutes 54 Seconds No Citation	

Video Playlist in "image" view

Playlis	t	1 of 6	<b>B</b>
Date	Time	Dur Category	Trg Trc
06/18/13	03:41:07	1m No Citation	🛛 🛈 🧐
06/18/13	03:29:36	53s No Citation	RC
06/18/13	01:15:46	54s No Citation	RO
06/18/13	01:14:45	51s No Citation	RC
06/18/13	01:12:22	2m Citation(C)	RC
06/17/13	22:03:53	188m Citation	RC

Video Playlist in "list" view

	Playlist Screen
Column	Description
Date	Recording start date in YY/MM/DD format.
Time	Recording start time in HH:MM:SS format.
Dur	Duration of recording in seconds (s) or minutes (m).
Category	If this is a <i>Background Record</i> video, <b>Background(R)</b> will display here. If this is a <i>Regular Record</i> video, the video's category will display here. The default categories are: <i>No Citation, Citation,</i> <i>Search, Arrest,</i> and <i>Other.</i> If a category name is followed by ( <b>C</b> ), it indicates that the video is a continuation of the previous video. The system automatically subdivides videos that are larger than 1G.
Trg	The event that triggered the recording: Record Button Wireless microphone connected to input port VLP 1 Wireless microphone connected to input port VLP 2 Emergency lights Siren Speed Auxiliary 1 device, such as the CrashBat2 Auxiliary 2 device, such as a motion detector Display-only events (i.e., events that do not trigger a recording) Brakes In-car microphone
Trc	If a <b>1</b> displays here, it indicates that there is one or more Trace Points embedded in this video. For more on Trace Points, see the table on page 6.

The columns on the Playlist screen (*list* view) are described in the following table.



- 4 Press the D or S button until the correct file is highlighted.
- **5** Press **SID**. The default video/audio track begins playing. The default *video* track is Camera channel 1 (Nite-Watch camera), and the default *audio* track is VLP 1 port (VLP2 mic connected to VLP 1 port).
- **6** To select a *different* video and/or audio track, proceed to the next step. Otherwise skip to step 18.
- 7 Hold the 🕥 button *down* until the Select Source menu displays.



- 8 To select a different *camera* view, proceed to the next step. Otherwise skip to step 12.
- **9** Press **R** to select the *Video* field.

Select Source			
> Video	<b>CAM #2</b>		
Audio	MIC #3		

- **10** Press **b** to toggle between the two camera channels, as described below.
  - CAM #1. Display the view from the Nite-Watch camera.
  - CAM #2. Display the view from all other cameras in a "split-screen" format. This includes the Backseat camera and any Bullet camera(s).
- **11** Press **()** to save your camera selection.
- **12** To select a different *audio* track, proceed to the next step. Otherwise skip to step 17.
- **13** Press **>** to advance to the *Audio* field.

Source
<b>CAM</b> #1
MIC #3

**14** Press **R** to select the *Audio* field.

Select Source				
Video	<b>CAM</b> #1			
> Audio	MIC #3			



- **15** Press D until the desired audio track displays, as described below.
  - MIC #1. Play the audio track for the wireless mic that's connected to port VLP 1.
  - MIC #2. Play the audio track for the wireless mic that's connected to port VLP 2.
  - MIC #3. Play the audio track for the in-car mic.
- **16** Press **(i)** to save your audio selection.
- 17 Press 
   again to exit the Select Source menu and begin playing the selected video/audio track. Depending on your selections and camera configuration, this may be a single or "split-screen" view. For example, if you selected Cam #2 and you have four cameras recording on Channel 2—a Backseat camera and three Bullet cameras—then all four views will play simultaneously on one screen that's divided into four quadrants.
- **18** When you're done viewing the video(s), press  $\Box$  to exit the Playlist screen.

# **Transferring Videos from DVR to Server**

Transmission refers to the process of transferring video files from your in-car DVR to the storage server back at your agency or precinct. This transmission can occur either *automatically* (typical) or *manually*, as described below.

#### **Automatic Transmission**

Whenever your vehicle comes within approximately 300 feet of an access point, it triggers an automatic transmission<sup>\*</sup>. During this transmission, all videos that are currently stored on your DVR will transfer wirelessly to the storage server via an access point (for more on access points, see Glossary). Automatic transmission does not require any action on your part.

#### **Manual Transmission**



Each Flashback DVR holds a storage device called an *SD card*. This card is used to temporarily store an officer's videos until they can be transferred to your agency's storage server. Typically, the SD card remains in the Flashback unit, as most video files will transmit automatically. However, if you can't wait for the automatic file transfer to occur, or a problem has occurred that interfered with the wireless file transfer, you can manually upload the videos yourself by removing the SD card and inserting it in an SD card reader connected to your PC workstation on the server. (For specific instructions, see "Manually Uploading New Videos" in chapter 2 of the *DEP User's Guide* or *DEP Administrator's Guide*.) When you are finished uploading the videos, re-insert the SD card in your Flashback unit.

<sup>\*</sup> Unless the DVR is in RECORD mode, in which case the transfer will occur AFTER the recording is complete.



# Logging Out

Before you power down your vehicle, you must log out of the DVR. This is the exact same procedure used to login.

**1** Press **()**. The Logout screen displays.

jout
Cancel

- 2 Press D.
- 3 Press **R**.

### **Powering Down**

Your DVR powers up/down automatically The Flashback3 is designed to power off automatically after a programmed ignition timer delay of **X** number of minutes, where  $\mathbf{X} = \mathbf{1}, \mathbf{15}, \mathbf{30}, \mathbf{45}$ , or **60**. Do not use the red On/Off button to power down the device unless instructed to do so by an L-3 Mobile-Vision Support Specialist.

Please note that the system will *not* power down automatically if the DVR is recording *or* transmission is in progress. As long as neither of these processes is in effect, however, the ignition shutdown timer will begin immediately after the vehicle's ignition is turned *off*. The default setting for the shutdown timer is 15 minutes. To change this setting, see "Programming the Ignition Timer" on page 190.

### **DVR Settings**

This section describes how to change the various DVR settings via the Flashback Main Menu. To access this menu, first open the door on your DVR door using the key provided by L-3 Mobile-Vision. Next, press the low button on the DVR or the low button on the Flashback monitor. Remember—the DVR door must be open in order for you to access the Main Menu!

Main Menu	8
System	
Network	
Recording	
User	



For more information, see:

- □ Changing the Date & Time Settings, below
- □ Changing the Record Settings, page 38
- □ Changing the Audio Settings, page 60
- □ Selecting & Configuring Record Triggers, page 84
- □ Changing Display Options, page 110
- □ Entering/Changing the Wireless Options, page 140
- □ Entering/Changing the Ethernet Options, page 151
- □ Entering/Changing the Wireless Security Settings, page 170
- □ Entering/Changing System Settings, page 190
- □ Entering the Officer Name, page 201
- □ Entering the DVR Unit Name, page 203
- □ Viewing/Updating Firmware, page 205
- Copying the DVR Configuration File to/from DVR, page 211
- □ Resetting the DVR to its Factory Settings, page 216
- Copying the DVR Log Files to a USB Drive, page 219
- □ Formatting an SD card, page 221
- □ Viewing Your Flashback3 ID, page 224
- □ Viewing Media Access Control Addresses, page 226

#### **Changing the Date & Time Settings**

To change the date and/or time settings, proceed to the appropriate section:

- □ Selecting a Time Zone, below
- □ Turning Daylight Savings Time On/Off, page 29
- □ Changing the Date Display Format, page 31
- □ Selecting the Current Date, page 33
- □ Selecting the Current Time, page 36.

#### Selecting a Time Zone

This section describes how to select the time zone in which you will be recording. The system defaults to *Eastern Standard Time*.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	- 13
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **R** to select the **Date/Time** option. The Date/Time screen displays.

Main Menu•Sy	vstem • Date/Time 👘 🔒
Time Zone	-05:00 Eastern Time
DST	ON
Format	MM/DD/YY
Date	07/31/13
Time	09:04:58



6 Press **R** again to select the *Time Zone* field.

Main Menu > System > Date/Time 🛛 🔒		
Time Zone < -05:00 Eastern Time >		
DST	ON	
Format	MM/DD/YY	
Date	5/16/ 13	
Time	10:46:55	

7 Using the 🕥 or 🕑 buttons, display the time zone you wish to select. For example:

To change from	То	Action
Eastern Time	Atlantic Time	Press D twice
Eastern Time	Indiana Time	Press D once
Eastern Time	Mountain Time	Press 🔇 twice
Eastern Time	Arizona Time	Press 🔇 three times
Eastern Time	Pacific Time	Press 🔇 four times

8 Once the correct time zone displays, press M *four times* to save your changes and exit this option.

## Turning Daylight Savings Time On/Off

This section describes how to turn the daylight savings time option *on* or *off*. If you are recording in a location that observes daylight savings time, this option should be *on*, which is the system default. If you are recording in a location that does *not* observe daylight savings time, this option should be *off*.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **R** to select the **Date/Time** option. The Date/Time screen displays.

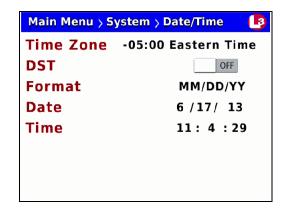
Main Menu•System•Date/Time 🛛 🚺		
Time Zone	-05:00 Eastern Time	
DST	ON	
Format	MM/DD/YY	
Date	07/31/13	
Time	09:04:58	



**6** Press  $\blacksquare$  to advance to the *DST* field.

Main Menu > System > Date/Time 🍡 🔒		
Time Zone	-05:00 Eastern Time	
DST	OFF	
Format	MM/DD/YY	
Date	6/17/ 13	
Time	11:4:29	

**7** Press  $\bigcirc$  to select the *DST* field.



- 8 Press ( to toggle the field value to ON or OFF.
- 9 Press M four times to save your changes and exit this option.

#### **Changing the Date Display Format**

This section describes how to change the format in which your dates display. Options include MM/DD/YY (default), DD/MM/YY, or MM/DD/YYYY.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the wo button until the wo light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **R** to select the **Date/Time** option. The Date/Time screen displays.

Main Menu•System•Date/Time 🛛 🔒		
Time Zone -05:00 Eastern Time		
DST	ON	
Format	MM/DD/YY	
Date	07/31/13	
Time	09:04:58	



6 Press D *twice* to advance to the *Format* field.

Main Menu > System > Date/Time 🛛 🛃			
Time Zone	-05:00 Eastern Time		
DST	OFF		
Format	MM/DD/YY		
Date	6/17/ 13		
Time	8:4:29		

**7** Press **R** to select the *Format* field.



- 8 Use the button to select the desired date format.
- 9 Press M four times to save your changes and exit this option.

#### Selecting the Current Date

The Flashback's date display is set automatically by the Flashback unit's GPS. However, in the event of a GPS malfunction (such as a broken antennae), you can set the Flashback date display manually, as described below.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **R** to select the **Date/Time** option. The Date/Time screen displays.

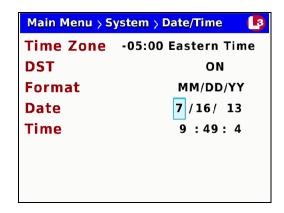
Main Menu•System•Date/Time 🛛 🖪		
Time Zone -05:00 Eastern Time		
DST	ON	
Format	MM/DD/YY	
Date	07/31/13	
Time	09:04:58	



6 Press D *twice* to advance to the *Date* field.

Main Menu > System > Date/Time		
Time Zone	-05:00 Eastern Time	
DST	ON	
Format	MM/DD/YY	
Date	7/16/ 13	
Time	9:49:4	

**7** Press **R** to select the *Date* field.



- 8 To change the *first* segment of the *Date* field, proceed to the next step. Otherwise skip to step 10.
- 9 Use the or the buttons to move the numeric display higher or lower, respectively. Once the desired number displays, proceed to the next step.
- **10** To change the *second* segment of the *Date* field, press (D), then proceed to the next step. Otherwise skip to step 12.
- 11 Use the **O** or **D** buttons to move the numeric display higher or lower, respectively. Once the desired number displays, proceed to the next step.
- **12** To change the *third* segment of the *Date* field, press (D), then proceed to the next step. Otherwise skip to step 14.
- **13** Use the **()** or **()** buttons to move the numeric display higher or lower, respectively. Once the correct year displays, proceed to the next step.
- **14** Press **(M)** *four times* to save your changes and exit this option.



#### Selecting the Current Time

The Flashback's time display is set automatically by the Flashback unit's GPS. However, in the event of a GPS malfunction (such as a broken antennae), you can set the Flashback time display manually, as described below.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 10 button until the 10 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	3
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **R** to select the **Date/Time** option. The Date/Time screen displays.

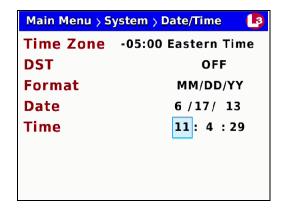


Main Menu-System-Date/Time		
Time Zone	-05:00 Eastern Time	
DST	ON	
Format	MM/DD/YY	
Date	07/31/13	
Time	09:04:58	

6 Press **()** to advance to the *Time* field.

Main Menu > System > Date/Time 🛛 🖪	
Time Zone	-05:00 Eastern Time
DST	OFF
Format	MM/DD/YY
Date	6/17/ 13
Time	11:4:29

**7** Press **R** to select the *Time* field.



- **8** To change the *hours* segment of the *Time* field, proceed to the next step. Otherwise skip to step 10.
- 9 Use the or vertice or vertice of the second secon



- **10** To change the *minutes* segment of the *Time* field, press (D), then proceed to the next step. Otherwise skip to step 12.
- 11 Use the 
  or 
  buttons to move the minutes display higher or lower, respectively.
  Once the desired number displays, proceed to the next step.
- **12** To change the *seconds* segment of the *Time* field, press (D), then proceed to the next step. Otherwise skip to step 14.
- **13** Use the **()** or **()** buttons to move the numeric display higher or lower, respectively.



**HINT**: You may want to set the seconds setting *ahead* by several seconds to give yourself time to save the record.

**14** Press **(M)** *four times* to save your changes and exit this option.

## **Changing the Record Settings**

The Flashback offers a number of different recording options, such as video resolution, frames-per-second, Background Record, etc. Please review the options discussed in this chapter to determine if the default settings are meeting your agency's needs.

For more information, see:

- □ Adjusting Video Quality and File Size, below
- □ Turning Background Record On/Off, page 48
- □ Turning Stealth Mode On/Off, page 51
- □ Changing the Pre/Post Record Settings, page 54
- □ Selecting the Camera(s) for Channel 2, page 58.

#### Adjusting Video Quality and File Size

There is always a tradeoff between file size and quality. The sharper and clearer a video is, the bigger its file size. If you are experiencing problems with bandwidth speed and/or storage space, you may want to experiment with the video *quality*, *frames-per-second*, and *resolution* settings to see if you can reduce your file sizes somewhat without sacrificing too much quality.

For specific instructions, see:

- □ Changing the Video Quality Setting, next page
- □ Changing the Video Frames-Per-Second Setting for Regular Record, page 41
- □ Changing the Video Frames-Per-Second Setting for Background Record, page 43
- □ Changing the Video Resolution Setting, page 46.



#### **Changing the Video Quality Setting**

This section describes how to change the quality setting for videos recorded from Channel 1 (Nite-Watch camera) or Channel 2 (all other cameras). The higher the number, the better the video quality *and* the larger the video's file size.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

6

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	8
Video	
Audio	
Input	
Radar	
Miscellaneous	



**5** Press **R** to select the **Video** option. The Video screen displays.

Main Menu > Recording >	Video 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

**6** To change the video quality for Channel 1 (Nite-Watch camera), proceed to the next step.

-OR -

To change the video quality for Channel 2 (Backseat and Bullet cameras), press **I** *three times* to advance to the *CH2 Quality* field.

Main Menu > Recording > Video	
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

**7** Press **R** to select the current field.

Main Menu > Recordin	g > Video 🛛 🚯
CH1 Quality	3
CH1 FPS	30
<b>CH1</b> Resolution	720x480
CH2 Quality	< <b>3</b> >
CH2 FPS	30
<b>CH2</b> Resolution	720x480
CH2 Camera	2

8



The higher the number, the better the video quality & the larger the video size Use the  $\bigcirc$  button to select a number between 2-3 (for CH1) or 2-5 (for CH2).

**9** Press **(M)** *twice* to save your changes and exit the Video screen. The system will automatically reboot.

Changing the Video Frames-Per-Second Setting for Regular Record

This section describes how to change the number of frames-per-second captured for videos recorded from Channel 1 (Nite-Watch camera) or Channel 2 (all other cameras) during regular record mode. To change the frames-per-second for videos captured during Background Record, see "Changing the Video Frames-Per-Second Setting for Background Record" on page 43.

The higher the number, the smoother the video's picture *and* the larger the video's file size.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **O** or **D** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 13
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **R** to select the **Video** option. The Video screen displays.

Main Menu > Recording >	Video 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2
CH2 Camera	2

**6** To change the frames-per-second for Channel 1 (Nite-Watch camera), press **D** to advance to the *CH1 FPS* field.

-OR-

To change the frames-per-second for Channel 2 (Backseat and Bullet cameras), press **()** *three times* to advance to the *CH2 FPS* field.

Main Menu > Recording >	Video 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

**7** Press **R** to select the current field.



Main Menu > Recording > V	Video 🛛 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	< 30 >
CH2 Resolution	720x480
CH2 Camera	2

The higher the number, the better the video quality & the larger the video size

8 Use the  $\triangleright$  or  $\triangleleft$  button to select the desired frames-per-second (2 – 30).

**9** Press **(()** *twice* to save your changes and exit the Video screen. The system will automatically reboot.

# Changing the Video Frames-Per-Second Setting for Background Record

This section describes how to change the number of frames-per-second captured for videos recorded from Channel 1 (Nite-Watch camera) during Background Record. For more information on Background Record, see "Turning Background Record On/Off" on page 48. To change the frames-per-second for videos captured during *Regular Record* mode, see the previous section.

The higher the number, the smoother the video's picture *and* the larger the video's file size.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 10 button until the 10 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	•
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.



Main Menu	6
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 🕒
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **()** to advance to the **Miscellaneous** option.

Main Menu > P	Recording		<b>b</b>
Video			
Audio			
Input			
Radar			
Miscella	aneou	S	
MISCEII		2	

6 Press **R** to select the **Miscellaneous** option. The Misc screen displays.



Main Menu•Recording•Misc	3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**7** Press **I** to advance to the *Background FPS* field.

Main Menu•Recording•Misc	<b>1</b> 3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5
2	

**8** Press **R** to select the *Background FPS* field.

Main Menu•Recording•Misc	3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

The higher the number, the better the video quality & the larger the video size

- **9** Use the  $\triangleright$  button to select the desired frames-per-second (2 or 5).
- **10** Press **(M)** *twice* to save your changes and exit the Misc screen. The system will automatically reboot.



#### **Changing the Video Resolution Setting**

This section describes how to change the recording resolution for videos recorded from Channel 1 (Nite-Watch camera).

The higher the number, the clearer the video's picture *and* the larger the video's file size.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	6
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	- 19
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.



Main Menu > Recording	B
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **R** again to select the **Video** option. The Video screen displays.

Main Menu > Recording >	Video 🛛 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

**6** To change the video resolution for Channel 1 (Nite-Watch camera), press D *twice* to advance to the *CH1 Resolution* field.

-OR-

To change the video resolution for Channel 2 (Backseat camera and Bullet cameras), press **D** *twice* to advance to the *CH2 Resolution* field.

3
30
720x480
3
30
720x480
2

**7** Press  $\mathbb{R}$  to select the current field.



Main Menu > Recording >	Video 🛛 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

The higher the number, the better the video quality & the larger the video size

- 8 Press the D button until the desired screen resolution displays.
- **9** Press **(()** *twice* to save your changes and exit the Video screen. The system will automatically reboot.

## **Turning Background Record On/Off**

This section describes how to turn the Background Record feature *on* or *off*. This feature enables you to record continuously from the Nite-Watch camera at a reduced frame rate without audio whenever your vehicle's ignition is on. The downside of this feature is that it substantially increases your storage requirements. Before selecting this option, carefully review your video storage capacity.

When Background Record is on, you can still press the **R** button to start a regular recording, which is typically of a higher quality and resolution than Background Record videos. After you press **R**, the system will save the current *Background Record* file and begin generating a *Regular Record* file. When you press **D** to stop the video, the system will save the *Regular Record* file and return the DVR to Background Record mode. In this manner, you might generate multiple *Background Record* files during a given shift.

Because Background Recordings are captured at a much lower frames-per-second setting than Regular Recordings, they appear more like a series of "freeze frame" shots rather than a motion picture.

For more on the pre-record feature, see "Changing the Pre/Post Record Settings" on page 54.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	5
System	
Network	
Recording	
User	

4 Press **(R)** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 🕒
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **()** to advance to the **Miscellaneous** option.

Main Menu > Recording
Video
Audio
Input
Radar
Miscellaneous

6 Press **R** to select the **Miscellaneous** option. The Misc screen displays.

Main Menu•Recording•Misc	B
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**7** Press **R** to select the *Background Record* field.

Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- 8 Press >> to toggle the field value to ON or OFF.
- **9** To change the frames-per-second setting for videos captured in Background Record, proceed to the next step. Otherwise skip to step 14. (System default is 5 frames-per-second.)
- **10** Press **()**.
- **11** Press D to advance to the *Background FPS* field.



Main Menu•Recording•Misc	<b>B</b>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**12** Press **(R)** to select the *Background FPS* field.

Main Menu•Recording•Misc	3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- **13** Use the  $\triangleright$  button to select the desired frames-per-second (2 or 5).
- **14** Press **(M)** *twice* to save your changes and exit the Misc screen. The system will automatically reboot.
- **B NOTE**: By default, a *Background Record* indicator (pictured left) will display on the Flashback3 screen whenever Background Record is *on*. If you want to hide this indicator from view, you must change the *Stealth* setting to **ON**. For instructions, see the next section.

## **Turning Stealth Mode On/Off**

This section describes how to turn "Stealth" mode *on* or *off*, which determines whether or not the *Background Record indicator* <sup>3</sup> will display on the Flashback screen when Background Record is *on*.

If Stealth mode is *on*, the *Background Record* indicator will be hidden from view. If Stealth mode is *off* (system default), the *Background Record* indicator will be visible.

1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 10 button until the 10 light turns *off*.)



**2** Press **()**. The Main Menu displays.

System Network	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	- 🕒
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Video	
Audio	
Input	
Radar	
Miscellaneous	
	_

**5** Press **()** to advance to the **Miscellaneous** option.



Main Menu > Recording	B
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Miscellaneous** option. The Misc screen displays.

Main Menu•Recording•Misc	<b>B</b>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**7** Press D *twice* to advance to the *Stealth* field.

Main Menu•Recording•Misc	<u> </u>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

8 Press **R** to select the *Stealth* field.



Main Menu•Recording•Misc	6
<b>Background Record</b>	OFF
<b>Background FPS</b>	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- **9** Press  $\triangleright$  to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

## **Changing the Pre/Post Record Settings**

If desired, you may capture up to 60 seconds of video *before* a recording session begins and/or *after* a recording session ends. Many agencies are interested in seeing what happened x number of seconds *before* a recording was triggered by either a manual or automatic trigger. For example, if you are using a CrashBat2 as the *Aux 1* trigger, you may wish to view the events that preceded a motor vehicle accident.

The reason that the Flashback is able to capture video *before* a recording session even begins is because the DVR is, in fact, recording all the time—it just doesn't save all that data to the SD card unless you choose to do so. You might compare pre-recordings to the short-term memory on a computer. Before you ever click **Save** (or in this case, the **R** button), there is still some data stored in the computer's short-term memory.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	6
System	
Network	
Recording	
User	



**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	B
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	<b>1</b> 3
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **()** to advance to the **Miscellaneous** option.

Main Menu	Recording	<b>B</b>
Video		
Audio		
Input		
Radar		
Miscel	laneous	

6 Press **R** to select the **Miscellaneous** option. The Misc screen displays.



Main Menu•Recording•Misc	3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**7** To change your *pre-record* setting, proceed to the next step. - OR -

To change your *post-record* setting, skip to step 13.

8 Press D *three times* to advance to the *Pre-Record* field.

Main Menu•Recording•Misc	<b>B</b>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**9** Press **R** to select the *Pre-Record* field.

OFF
5
OFF
10
0
OFF
OFF
5

Use the button to select the desired length for your pre-recordings (in seconds):
0, 10 (default), 20, 30, 40, 50, or 60. Once the desired number displays, proceed to the next step.



**11** If you wish to change your *post-record* setting as well, proceed to the next step.

-OR -

If you do not wish to change your post-record setting, skip to step 16.

- **12** Press **()**.
- **13** Use the D button to advance to the *Post-Record* field.

Main Menu•Recording•Misc	L3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**14** Press **R** to select the *Post-Record* field.

Main Menu•Recording•Misc	<b>1</b> 3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- Use the button to select the desired length for your post-recordings (in seconds):
   0 (default), 10, 20, 30, 40, 50, or 60. Once the desired number displays, proceed to the next step.
- **16** Press **(M)** *twice* to save your changes and exit the Misc screen. The system will automatically reboot.



## Selecting the Camera(s) for Channel 2

This section describes how to select the number of cameras that will be recording on Channel 2. If there will be *no* cameras recording on Channel 2, set the *CH2 Camera* field to **OFF**.

You can have up to four cameras recording on Channel 2: the *Backseat* camera and 1 - 3 *Bullet* cameras.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.



Main Menu > Recording	- 13
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **R** to select the **Video** option. The Video screen displays.

Main Menu > Recording >	Video 🥵
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	2

6 Press **()** to advance to the *CH2 Camera* field.

3 30 720x480
720x480
-
3
30
720x480
2

**7** Press **R** to select the *CH2 Camera* field.



Main Menu > Recording >	Video 🛛 🕑
CH1 Quality	3
CH1 FPS	30
CH1 Resolution	720x480
CH2 Quality	3
CH2 FPS	30
CH2 Resolution	720x480
CH2 Camera	< 2 >

8 If you will be recording on Channel 2, press → until the correct number of cameras displays (1-4).

– OR –

If you will *not* be recording on Channel 2, press D until **OFF** displays.

**9** Press **(M)** *twice* to save your changes and exit the Video screen. The system will automatically reboot.

# **Changing the Audio Settings**

This section allows you to change the Flashback audio settings. For specific instructions, see:

- □ Turning the VLP1 Audio On/Off, below
- □ Turning the VLP2 Audio On/Off, page 63
- □ Turning the In-Car Audio On/Off, page 65
- □ Turning the Record 'Beep' On/Off, page 68
- □ Turning the Keystroke 'Beep' On/Off, page 70
- **Turning the Pre/Post Audio On/Off, page 72**
- Changing the Gain Setting for the VLP1 Audio, page 75
- □ Changing the Gain Setting for the VLP2 Audio, page 78
- □ Changing the Gain Setting for the In-Car Audio, page 81.

#### Turning the VLP1 Audio On/Off

This section describes how to turn your VLP1 port's audio setting *on* or *off*. If this setting is *on*, audio from the VLP2 wireless microphone connected to input port VLP 1 will be recorded. If this setting is *off*, audio from the VLP2 wireless microphone connected to input port VLP 1 will *not* be recorded.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	8
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** to advance to the **Audio** option.



Main Menu > Recording	3
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	idio 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

7 Press  $\bigcirc$  to select the *VLP* #1 field.

VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- 8 Press (>>> to toggle the field value to ON or OFF.
- **9** Press **(()** *four times* to save your changes and exit this option.



## Turning the VLP2 Audio On/Off

This section describes how to turn your VLP2 port's audio setting *on* or *off*. If this setting is *on*, audio from the VLP2 wireless microphone connected to input port VLP 2 will be recorded. If this setting is *off*, audio from the VLP2 wireless microphone connected to input port VLP 2 will *not* be recorded.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu 🚦
System
Network
Recording
User

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	6
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.



Video
Audio
Input
Radar
Miscellaneous

**5** Press **D** to advance to the **Audio** option.

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	ıdio 🛛 🕒
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **7** Press  $\square$  to advance to the *VLP* #2 field.
- 8 Press  $\bigcirc$  to select the *VLP* #2 field.



Main Menu > Recording > Audi	
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **9** Press  $\triangleright$  to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** four times to save your changes and exit this option.

# Turning the In-Car Audio On/Off

This section describes how to turn your in-car microphone's audio setting *on* or *off*. If this setting is *on*, audio from the in-car microphone will be recorded. If this setting is *off*, audio from the in-car microphone will *not* be recorded.



**NOTE**: If the in-car mic's audio setting is *on*, you will still have the option of temporarily muting that audio while a recording is in progress. To do so, press **R**.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **O** or **D** button until **Recording** is highlighted.



Main Menu	<b>1</b> 3
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 🕒
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** to advance to the **Audio** option.

Main Menu > Recording	6
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Audio** option. The Audio screen displays.



Main Menu > Recording > Au	idio 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

**7** Press **I** twice to advance to the *In-Car Mic* field.

Main Menu > Recording > Au	ıdio 🛛 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

8 Press **R** to select the *In-Car Mic* field.

Main Menu > Recording > A	udio 🧧
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# Turning the Record 'Beep' On/Off

This section describes how to turn the Record "beep" option *on* or *off*. If this setting is *on*, the DVR will beep every 30 seconds while a Regular recording is in session.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	8
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** to advance to the **System** option.



Main Menu > System	- 🕒
Date/Time	
System	
Display	
Manage	
Information	

**6** Press **R** to select the **System** option. The System screen displays.

30
admin
admin
ON
OFF
ON
English
OFF

**7** Press **①** *three times* to advance to the *Record Beep* field.

Main Menu > System > Syst	tem 🛛 🛃
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

8 Press **R** to select the *Record Beep* field.



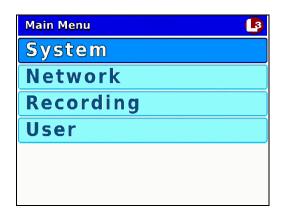
Main Menu > System > Syste	em 🥵
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF
···· <b>·</b> ·······························	

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

### **Turning the Keystroke 'Beep' On/Off**

This section describes how to turn the keystroke "beep" option *on* or *off*. If this setting is *on*, the DVR will beep each time you press one of the buttons on the DVR or DVR monitor.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.



<b>3</b>

**5** Press **(D)** to advance to the **System** option.

Main Menu > System	)
Date/Time	
System	
Display	
Manage	
Information	
	_

6 Press **R** to select the **System** option. The System screen displays.

Main Menu > System > Sys	stem 🕒
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**7** Press **()** to advance to the *Keystroke Beep* field.



- 🕒
30
dmin
him
ΟΝ
OFF
ON
glish
OFF

8 Press **R** to select the *Keystroke Beep* field.

m 🥵
30
admin
admin
ON
OFF
ON
English
OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

### Turning the Pre/Post Audio On/Off

This section describes how to turn the audio *on* or *off* for your pre- and post-recordings. Including audio in these recordings will *increase* your file size; omitting audio from these recordings will *reduce* your file size.

For more information on pre- and post-recordings, see "Changing the Pre/Post Record Settings" on page 54.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	•
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	8
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** to advance to the **Audio** option.



Main Menu > Recording
Video
Audio
Input
Radar
Miscellaneous

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	ıdio 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

**7** Press **O** to advance to the *Pre Post Audio Ctrl* field.

Main Menu > Recording > Au	idio 🛛 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

8 Press **R** to select the *Pre Post Audio Ctrl* field.



Main Menu > Recording > Audio 🛛 🔒	
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **9** Press  $\triangleright$  to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *twice* to save your changes and exit the Audio screen. The system will automatically reboot.

### Changing the Gain Setting for the VLP1 Audio

This section describes how to adjust the strength of the audio line level signal into the DVR for the VLP2 wireless microphone connected to input port VLP 1. This signal has an effect on volume:

- □ *Increasing* the numeric value of the *VLP1 Gain(-dB)* field will result in decreased volume
- $\Box Decreasing the numeric value of the VLP1 Gain(-dB) field will result in increased volume.$

It's recommended that you adjust this setting up or down in *small increments* until you hear an improvement. If you notice increased distortion after changing this setting, go back to the Audio screen and increase the numeric value of the *VLP1* Gain(-dB) field.

The system default is -4 decibels.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

2

**5** Press **D** to advance to the **Audio** option.



Main Menu > Recording	
Video	
Audio	
Input	
Radar	
Miscellaneous	j

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	ıdio 🛛 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

**7** Press  $\bigcirc$  three times to advance to the *VLP1 Gain(-dB)* field.

Main Menu > Recording > Audio	
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

8 Press  $\mathbb{R}$  to select the *VLP1 Gain(-dB)* field.



Main Menu > Recording > A	udio 🛛 🕒
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	< <b>4</b> >
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **10** Press **(M)** *four times* to save your changes and exit this option.

### Changing the Gain Setting for the VLP2 Audio

This section describes how to adjust the strength of the audio line level signal into the DVR for the VLP2 wireless microphone connected to input port VLP 2. This signal has an effect on volume:

- □ *Increasing* the numeric value of the *VLP2 Gain(-dB)* field will result in decreased volume
- $\Box Decreasing the numeric value of the VLP2 Gain(-dB) field will result in increased volume.$

It's recommended that you adjust this setting up or down in small increments until you hear an improvement. If you notice increased distortion after changing this setting, go back to the Audio screen and increase the numeric value of the *VLP2* Gain(-dB) field.

The system default is -4 decibels.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	•
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	<b>B</b>
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** to advance to the **Audio** option.



Main Menu > Recording	3
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	idio 🛛 🕒
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

**7** Press **①** *three times* to advance to the *VLP2 Gain(-dB)* field.

Main Menu > Recording > Au	idio 🛛 🕒
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

8 Press  $\mathbb{R}$  to select the *VLP2 Gain(-dB)* field.



Main Menu > Recording > Au	
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	< <b>4</b> >
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

- **10** Press **(M)** *four times* to save your changes and exit this option.

# Changing the Gain Setting for the In-Car Audio

This section describes how to adjust the strength of the audio line level signal into the DVR for your in-car microphone. This signal has an effect on volume:

- □ *Increasing* the numeric value of the *In-Car Gain(-dB)* field will result in decreased volume
- $\Box Decreasing the numeric value of the In-Car Gain(-dB) field will result in increased volume.$

It's recommended that you adjust this setting up or down in small increments until you hear an improvement. If you notice increased distortion after changing this setting, go back to the *Audio* screen and increase the numeric value of the *In-Car* Gain(-dB) field.

The system default is -2 decibels.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	B
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	1
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** to advance to the **Audio** option.



Main Menu > Recording	
Video	
Audio	
Input	
Radar	
Miscellaneous	j

6 Press **R** to select the **Audio** option. The Audio screen displays.

Main Menu > Recording > Au	idio 🛛 🥵
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF

**7** Press  $\bigcirc$  *two times* to advance to the *In-Car Gain(-dB)* field.

Main Menu > Recording > Au	ıdio 🛛 🕒
VLP #1	ON
VLP #2	OFF
In-Car Mic	ON
VLP1 Gain(-dB)	4
VLP2 Gain(-dB)	4
In-Car Gain(-dB)	2
Pre Post Audio Ctl	OFF
Pre Post Audio Ctl	OFF

8 Press  $\mathbb{R}$  to select the *In-Car Gain(-dB)* field.



idio 🥵
ON
OFF
ON
4
4
< <b>2</b> >
OFF

- 9 Use the D or to select the desired gain in negative decibels (0 16). For example, if you notice some audio distortion in your videos and the value of the *In-Car Gain(-dB)* field is currently 4, you may want to try setting it to 5.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# **Selecting & Configuring Record Triggers**

Video recordings are initiated, or *triggered*, in one of two ways: *manually*, or *auto-matically*. To manually trigger a recording, you simply press the **Record** button on your Flashback monitor or DVR. To automatically trigger a recording, you program the Flashback to begin recording in response to selected actions. For example, you can program the Flashback to automatically begin recording when your siren or emergency lights go on, when your vehicle reaches a certain speed, or when a wireless microphone is activated. These actions are referred to as *record triggers*. Initially, your System Implementation Specialist (SIS) will assist you in selecting and configuring your record triggers. After that, you can use the following procedures to add new triggers and/or reconfigure existing triggers.

Please note that the Aux 1 and Aux 2 triggers work in tandem with optional add-on equipment, such as the CrashBat2 crash detector. Such equipment is typically installed at system-start up.

For more information, see:

- □ Turning the Lights Trigger On/Off, next page
- □ Turning the Siren Trigger On/Off, page 87
- □ Turning the Aux 1 Trigger On/Off, page 90
- □ Turning the Aux 2 Trigger On, page 92
- □ Turning the Aux 2 Trigger Off, page 98
- □ Turning the Speed Trigger On/Off, page 101
- □ Turning the 'Stop Override' Feature On/Off, page 104
- □ Turning the VLP2 Microphone Trigger On/Off, page 107



# Turning the Lights Trigger On/Off

This section describes how to turn the lights record trigger *on* or *off*. When this feature is *on*, the DVR will automatically begin recording whenever you turn on your vehicle's emergency lights.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **()**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	•
System	
Network	
Recording	
User	

**4** Press **R** to select the **Recording** option. The Recording menu displays.



Main Menu > Recording	6
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** twice to advance to the **Input** option.

Main Menu > Recording
Video
Audio
Input
Radar
Miscellaneous

6 Press **R** to select the **Input** option. The Input screen displays.

Main Menu-Recording-Input	<b>6</b>
Light Trigger	ON
Siren Trigger	ON
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	90 MPH

**7** Press **R** to select the *Light Trigger* field.



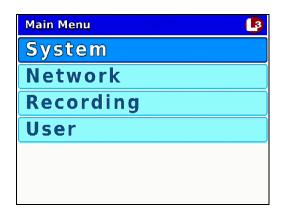
Main Menu > Recording :	> Input 🛛 🕒 🖪
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- 8 Press > to toggle the field value to ON or OFF.
- **9** Press **()** *four times* to save your changes and exit this option.

### Turning the Siren Trigger On/Off

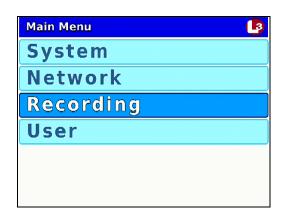
This section describes how to turn the siren record trigger *on* or *off*. When this feature is *on*, the DVR will automatically begin recording whenever your vehicle's siren is activated.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** Press the **O** or **D** button until **Recording** is highlighted.

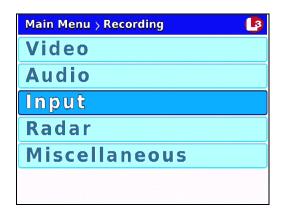




4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 🕒
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** *twice* to advance to the **Input** option.



6 Press (R) to select the **Input** option. The Input screen displays.



Main Menu-Recording-Input	: 🕒
Light Trigger	ON
Siren Trigger	ON
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	90 MPH

**7** Press **I** to advance to the *Siren Trigger* field.

Main Menu > Recording > Input	
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

8 Press **R** to select the *Siren Trigger* field.

Main Menu > Recording >	Input 🛃
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.



# Turning the Aux 1 Trigger On/Off

This section describes how to turn the Auxiliary 1 record trigger *on* or *off*. When this feature is *on*, the DVR will automatically begin recording whenever your Auxiliary 1 device (such as the CrashBat2 crash detector) is activated.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 10 button until the 10 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	- 13
System	
Network	
Recording	
User	

**3** Press the **O** or **D** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**4** Press **R** to select the **Recording** option. The Recording menu displays.



Main Menu > Recording	- 19
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** *twice* to advance to the **Input** option.

Main Menu > Recording
Video
Audio
Input
Radar
Miscellaneous

6 Press **R** to select the **Input** option. The Input screen displays.

Main Menu-Recording-Input	: 🕒
Light Trigger	ON
Siren Trigger	ON
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	90 MPH

**7** Press D *twice* to advance to the *AUX1 Trigger* field.



ON OFF ON
ON
OFF
ON
ON
5 MPH

8 Press **R** to select the *AUX1 Trigger* field.

Main Menu > Recording > Input	<b>B</b>
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# Turning the Aux 2 Trigger On

This section describes how to turn the Auxiliary 2 record trigger *on*. When this feature is *on*, the DVR will automatically begin recording whenever your Auxiliary 2 device (such as a motion detector) is activated.

If desired, you can program the DVR to automatically stop an Aux 2 triggered recording **X** number of minutes after the triggering activity ceases. For example, if your Aux 2 device is a motion detector, the "triggering activity" would be motion. If the *AUX 2 Delay* field is set to **5**, then after five motionless minutes, the DVR will automatically stop recording.<sup>\*</sup>

<sup>\*</sup> Assuming that the value of the AUX 2 Trigger and AUX 2 Stop fields is **ON**.



- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- 2 Press **()**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **O** or **D** button until **Recording** is highlighted.

Main Menu	- 🕒
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 13
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press D *twice* to advance to the **Input** option.



Main Menu > Recording	<b>1</b> 3
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Input** option. The Input screen displays.

Main Menu > Recording > Input	: 🕒
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

**7** Press D *three times* to advance to the *AUX2 Trigger* field.

Main Menu > Recording > Input	: 🤒
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

8 Press **R** to select the *AUX2 Trigger* field.



Main Menu > Recording > In	put 🛃
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

**9** Press **>** to toggle the field value from **OFF** to **ON**.

Terminating a recording manually vs. automatically Next, you need to choose how you would like to turn off Aux 2 triggered recordings: *manually* or *automatically*. If you select the *manual* option, then you simply press the  $\bigcirc$  button to stop a recording. Otherwise you can program the DVR to automatically turn off **X** number of minutes after the trigger activity ceases.

**10** Press **(M)** *twice* to save your changes and return to the Recording menu.

Main Menu > Recording	5
Video	
Audio	
Input	
Radar	
Miscellaneous	

**11** Press **1** *twice* to advance to the **Miscellaneous** option.

Main Menu > Recording	
Video	
Audio	Ĵ
Input	]
Radar	
Miscellaneous	
	_



**12** Press **(R)**. The Misc screen displays.

Main Menu•Recording•Misc	<b>B</b>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**13** If you wish to turn off Aux 2 triggered recordings *manually*, proceed to the next step. – OR –

If you wish to turn off Aux 2 triggered recordings *automatically*, skip to step 19.

- **14** Examine the value of the *AUX 2 Stop* field:
  - □ If the *AUX 2 Stop* field is set to **OFF**, press **(M)** *three times* to save your changes and exit this option. **End of procedure**.
  - □ If the *AUX 2 Stop* field is set to **ON**, proceed to the next step.
- **15** Press **①** *twice* to advance to the *AUX 2 Stop* field.

Main Menu•Recording•Misc	<b>B</b>
<b>Background Record</b>	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**16** Press **R** to select the *AUX 2 Stop* field.



Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- 17 Press D to change the value of the AUX 2 Stop field from ON to OFF.
- **18** Press **(M)** *four times* to save your changes and exit this option. **End of procedure**.
- **19** Examine the value of the *AUX 2 Stop* field:
  - □ If the value of the *AUX 2 Stop* field is **ON**, press **●** to advance to the *AUX 2 Delay* field. Next, skip to step 24.
  - □ If the value of the *AUX 2 Stop* field is **OFF**, press **●** *twice* to advance to the *AUX 2 Stop* field.

Main Menu•Recording•Misc	<b>1</b> 3
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**20** Press **R** to select the *AUX 2 Stop* field.

Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**21** Press **>** to change the value of the *AUX 2 Stop* field from **OFF** to **ON**.





- 22 Press 🔞.
- **23** Press **1** to advance to the *AUX 2 Delay* field.

Main Menu•Recording•Misc	- 13
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

**24** Press **R** to select the *AUX 2 Delay* field.

Main Menu•Recording•Misc	<u></u>
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- 25 Use the button to select the desired number of "delay" minutes that you want to elapse before a Aux 2 triggered recording is automatically stopped: 1, 5, 10, 15, 30, 45, or 60. Once the desired number displays, proceed to the next step.
- **26** Press **()** *four times* to save your changes and exit this option.

#### **Turning the Aux 2 Trigger Off**

This section describes how to turn the Auxiliary 2 record trigger *off*. When this feature is *on*, the DVR will automatically begin recording whenever your Auxiliary 2 device (such as a motion detector) is activated.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 19
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press D *twice* to advance to the **Input** option.



Main Menu > Recording	<b>1</b> 3
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Input** option. The Input screen displays.

Main Menu > Recording > Input	: 🤒
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	ON
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

**7** Press D *three times* to advance to the *AUX2 Trigger* field.

Main Menu > Recording > Inp	ut 🕒 🕒
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	ON
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

8 Press **R** to select the *AUX2 Trigger* field.



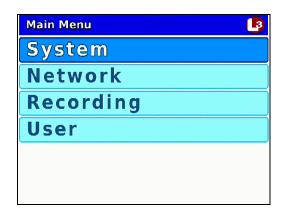
Main Menu > Recording > I	Input 🛛 🛃
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	ON
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- **9** Press  $\triangleright$  to toggle the field value from **ON** to **OFF**.
- **10** Press **(M)** four times to save your changes and exit this option.

# Turning the Speed Trigger On/Off

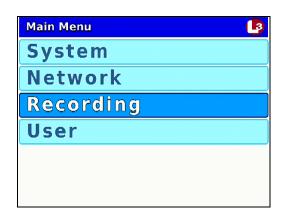
This section describes how to turn the *speed* trigger *on* or *off*. When this feature is *on*, the Flashback will automatically begin recording whenever your vehicle's speed reaches the number entered in the *Trigger Speed* field.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** Press the **O** or **D** button until **Recording** is highlighted.

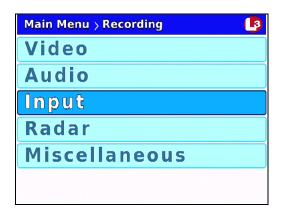




4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	6
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **D** *twice* to advance to the **Input** option.



6 Press (R) to select the **Input** option. The Input screen displays.



ON
ON
ON
OFF
ON
ON
90 MPH

**7** Press **①** *twice* to advance to the *Speed Trigger* field.

ON OFF ON
•••
ON
OFF
ON
ON
5 MPH

8 Press **R** to select the *Speed Trigger* field.

Main Menu > Recording >	Input 🗾 🖪
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- **9** Press **()** to toggle the field value to **ON** or **OFF**.
- $\Rightarrow$  If you turned the Speed Trigger *on*, proceed to the next step.
- $\Rightarrow$  If you turned the Speed Trigger *off*, press **(M)** *four times* to save your changes and exit this option. **End of procedure**.



**10** If you wish to change the trigger speed (see *Trigger Speed* field), proceed to the next step.

– OR –

If you do *not* wish to change the trigger speed, press **(M)** *four times* to save your changes and exit this option. **End of procedure**.

- 11 Press 🔞.
- **12** Press **1** to advance to the *Trigger Speed* field.

Main Menu > Recording > Input	- 6
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

**13** Press **R** to select the *Trigger Speed* field.

Main Menu > Recording > Inpu	t 🏼 🛃
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH
	L1

- 14 Use the 
   or 
   button to select the desired trigger speed (65 100). Once the desired trigger speed displays, proceed to the next step.
- **15** Press **(M)** *four times* to save your changes and exit this option.

#### Turning the 'Stop Override' Feature On/Off

This section describes how to turn the *Stop Override* feature *on* or *off*. When this feature is *on*, it overrides the **O** button, preventing an officer from manually stopping a recording while the emergency lights are on.



- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- 2 Press (M). The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **O** or **D** button until **Recording** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	6
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **()** to advance to the **Miscellaneous** option.



Main Menu > Recording	3
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Miscellaneous** option. The Misc screen displays.

OFF 5 OFF
•
OFF
10
0
OFF
OFF
5

**7** Press **①** *three times* to advance to the *Stop Override* field.

Main Menu•Recording•Misc	- 6
Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

8 Press **R** to select the *Stop Override* field.



Background Record	OFF
Background FPS	5
Stealth	OFF
Pre-Record	10
Post-Record	0
Stop Override	OFF
AUX 2 Stop	OFF
AUX 2 Delay	5

- **9** Press  $\triangleright$  to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# Turning the VLP2 Microphone Trigger On/Off

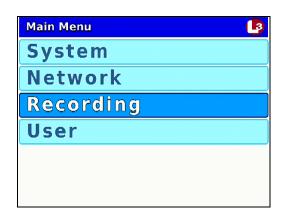
This section describes how to turn the VLP2 record trigger *on* or *off*. When this feature is *on*, the DVR will automatically begin recording whenever you activate a VLP2 wireless microphone.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

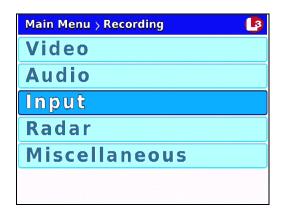




4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	6
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **1** twice to advance to the **Input** option.



6 Press (R) to select the **Input** option. The Input screen displays.



: 🕒
ON
ON
ON
OFF
ON
ON
90 MPH

7 Press ① three times to advance to the *VLP Trigger* field.

Main Menu > Recording > Inpu	ut 🕒
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

8 Press **R** to select the *VLP Trigger* field.

Main Menu > Recording >	Input 🥵
Light Trigger	ON
Siren Trigger	OFF
AUX1 Trigger	ON
AUX2 Trigger	OFF
VLP Trigger	ON
Speed Trigger	ON
Trigger Speed	85 MPH

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.



Affects

Flashback

monitor only

# **Changing Display Options**

This section describes how to change the status indicators that will display on:

- □ The Flashback3 monitor during a recording
- □ The Vehicle Viewer while the DVR is active.<sup>\*</sup> Vehicle Viewer is on optional PC application that allows you to operate the DVR from your mobile data computer.
- □ The Flashback Player while viewing a video off the server or off a backup disc.<sup>\*</sup>

For specific instructions, see:

- □ Turning the Radar Display On, below
- □ Turning the Radar Display Off, page 113
- □ Turning the Lights Display On/Off, page 116
- □ Turning the Siren Display On/Off, page 118
- □ Turning the Brakes Display On/Off, page 120
- □ Turning the Aux 1 Display On/Off, page 122
- □ Turning the Aux 2 Display On/Off, page 125
- □ Turning the Speed Display On/Off, page 127
- □ Turning the Metric Units Display On/Off, page 129
- □ Turning the 'GPS' Display On/Off, page 132
- □ Turning the 'Voltage' Display On/Off, page 134
- □ Turning the 'WLAN' Display On/Off, page 137.

#### **Turning the Radar Display On**

This section describes how to turn the radar display *on*. When this display is *on*, selected radar indicators will display on your Flashback monitor.

In order for this feature to work, your radar device must be wired to the radar trigger on the DVR.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	3
System	
Network	
Recording	
User	
	_

<sup>\*</sup> Exceptions: The GPS and WLAN displays appear on the Flashback monitor only.



**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	B
System	
Network	
Recording	
User	

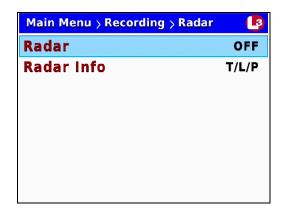
4 Press **(R)** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 13
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **①** *twice* to advance to the **Radar** option.

Main Menu > Recording	B
Video	
Audio	
Input	
Radar	
Miscellaneous	

6 Press **R** to select the **Radar** option. The Radar screen displays.



**7** Press **R** to select the *Radar* field.



- 8 Press D to toggle the field value from **OFF** to **ON**.
- 9 Examine the current radar settings in the *Radar Info* field, as described below.

	Available Radar Displays
т	Target Speed. The MPH or KPH reading of a speeding vehicle.
L	Lock Speed. The minimum MPH or KPH reading that you're looking for when you aim your radar device at a speeding vehicle.
T/L	The target and lock speeds, as described above.
<b>T/L/P</b> (system default)	The target, lock, and patrol speeds. The patrol speed is the MPH or KPH reading of your patrol car at the time a radar reading is obtained.

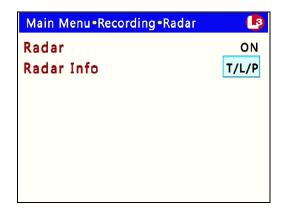
- $\Rightarrow$  To *keep* the current setting, skip to step 14.
- $\Rightarrow$  To *change* the current setting, proceed to the next step.



- **10** Press **()**.
- **11** Press **(D)** to advance to the *Radar Info* field.

Main Menu-Recording-Radar	6
Radar	ON
Radar Info	T/L/P

**12** Press **R** to select the *Radar Info* field.



- **13** Use the **D** button to select the radar information you wish to display.
- **14** Press **(M)** *four times* to save your changes and exit this option.

#### **Turning the Radar Display Off**

This section describes how to turn the radar display *off*. When this display is *on*, selected radar indicators will display on your Flashback monitor.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **()** or **()** button until **Recording** is highlighted.

Main Menu	- 13
System	
Network	
Recording	
User	

4 Press **R** to select the **Recording** option. The Recording menu displays.

Main Menu > Recording	- 🕒
Video	
Audio	
Input	
Radar	
Miscellaneous	

**5** Press **①** *twice* to advance to the **Radar** option.

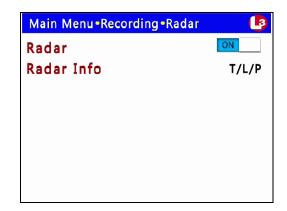


Main Menu > Recording
Video
Audio
Input
Radar
Miscellaneous

6 Press **R** to select the **Radar** option. The Radar screen displays.

Main Menu-Recording-Radar	6
Radar	ON
Radar Info	T/L/P

**7** Press **R** to select the *Radar* field.



- 8 Press ( to toggle the field value from **ON** to **OFF**.
- **9** Press **(()** *four times* to save your changes and exit this option.



# Turning the Lights Display On/Off

This section describes how to turn the Lights display on/off so that it either appears (Light trigger = ON) or does *not* appear (Light trigger = OFF) on the monitor during a recording. This display indicates when the vehicle's emergency lights are engaged.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 10 button until the 10 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** *twice* to highlight the **Display** option.



Main Menu > System	3
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displa	ay 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press **R** to select the *Light trigger* field.

Main Menu > System > Displa	у 🏼 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- 8 Press D to toggle the field value to ON or OFF.
- **9** Press **(M)** *four times* to save your changes and exit this option.



# Turning the Siren Display On/Off

This section describes how to turn the Siren display on/off so that it either appears (Siren trigger = ON) or does *not* appear (Siren trigger = OFF) on the monitor during a recording. This display indicates when a vehicle's siren is engaged.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** *twice* to highlight the **Display** option.



Main Menu > System	3
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Display	y 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press **1** to advance to the *Siren trigger* field.

Main Menu > System > Display	3
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**8** Press **R** to select the *Siren trigger* field.



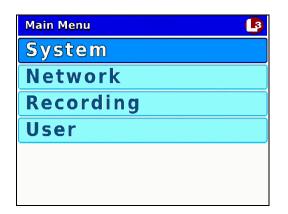
Main Menu > System > Display	<b>6</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

#### Turning the Brakes Display On/Off

This section describes how to turn the Brakes display on/off so that it either appears (Brakes trigger = ON) or does *not* appear (Brakes Trigger = OFF) on the monitor during a recording. This display indicates when a vehicle's brakes are engaged.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.



<b>B</b>

**5** Press **D** *twice* to highlight the **Display** option.

Main Menu > System	6
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displ	ay 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press D *twice* to advance to the *Brakes trigger* field.



Main Menu > System > Display	- 13
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *Brakes trigger* field.

Main Menu > System > Display	
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **()** *four times* to save your changes and exit this option.

### Turning the Aux 1 Display On/Off

This section describes how to turn the Aux 1 Display on/off so that it either appears (Aux1 trigger = ON) or does *not* appear (Aux1 trigger = OFF) on the monitor during a recording. This display indicates when the Auxiliary 1 trigger is engaged, such as the CrashBat2.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



System Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the 🔊 or 🕤 button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	B
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** *twice* to highlight the **Display** option.

Main Menu > System 🔒
Date/Time
System
Display
Manage
Information

6 Press **R** to select the **Display** option. The Display screen displays.



Main Menu > System > Display	<b>B</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press D *three times* to advance to the *Aux1 trigger* field.

Main Menu > System > Display	<b>B</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *Aux1 trigger* field.

Main Menu > System > Display	6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.



# Turning the Aux 2 Display On/Off

This section describes how to turn the Aux 2 Display on/off so that it either appears (Aux2 trigger = ON) or does *not* appear (Aux2 trigger = OFF) on the monitor during a recording. This display indicates when the Auxiliary 2 trigger is engaged, such as a motion detector.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

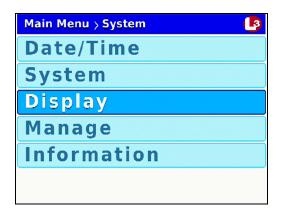
- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

<b>B</b>

**5** Press D *twice* to highlight the **Display** option.



6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displa	y 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press D *four times* to advance to the *Aux2 trigger* field.

Main Menu > System > Display	- 19
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *Aux2 trigger* field.



Main Menu > System > Display	<b>B</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# Turning the Speed Display On/Off

This section describes how to turn the Speed display on/off so that it either appears (Speed trigger = ON) or does *not* appear (Speed trigger = OFF) on the monitor during a recording. This display shows the vehicle's current speed during videos. The speed will display speeds in either miles-per-hour (default) or kilometers-per-hour (if Metric Units<sup>\*</sup> = ON).

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

SystemNetworkRecordingUser	Main Menu	B
Recording	System	
	Network	
User	Recording	
	User	

**3** If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

<sup>\*</sup> This Metric Units field is located on the System screen (Main Menu→ System→ System)



4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press D *twice* to highlight the **Display** option.

Main Menu > System	- 🕒
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displ	ay 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press **①** *four times* to advance to the *Speed trigger* field.



Main Menu > System > Display	6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *Speed trigger* field.

Main Menu > System > Display	/ 🕒
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

#### Turning the Metric Units Display On/Off

This section describes how to turn the metric units display on/off so that speeds display in either miles-per-hour (Metric Units = OFF) or kilometers-per-hour (Metric Units = ON) on the monitor during a recording.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	- 13
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	- 19
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** to advance to the **System** option.

Main Menu > System	<b>1</b> 3
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **System** option. The System screen displays.



stem 🛛 🕒 🥵
30
admin
admin
ON
OFF
ON
English
OFF

**7** Press **(D)** *four times* to advance to the *Metric Units* field.

n 🌆
30
admin
admin
ON
OFF
ON
English
OFF

8 Press **R** to select the *Metric Units* field.

Main Menu > System > Sys	stem 🕒
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**9** Press **D** to toggle the field value to **ON** or **OFF**:

**ON**...... Speeds will display in KPH (kilometers-per-hour) **OFF** ...... Speeds will display in MPH (miles-per-hour)

**10** Press **(M)** *four times* to save your changes and exit this option.



# Turning the 'GPS' Display On/Off

This section describes how to turn the on-screen GPS indicator On/Off, as shown below. By default, this indicator is *on*.



Optional GPS display

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

B

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.



<b>B</b>

**5** Press **D** *twice* to highlight the **Display** option.

Main Menu > System	6
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displ	ay 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

7 Press **O** *three times* to advance to the *GPS/Speed display* field.



Main Menu > System > Display	- 6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

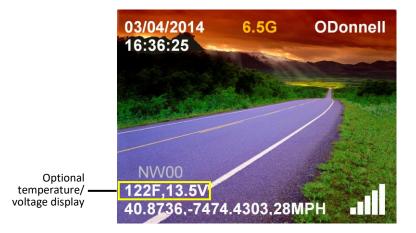
**8** Press **R** to select the *GPS/Speed display* field.

Main Menu > System > Display	6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **D** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

# Turning the Temp/Voltage Display On/Off

This section describes how to turn the on-screen temperature and voltage indicator *on* or *off*, as shown below. This indicator displays the DVR's internal voltage. By default, this indicator is *on*.





- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

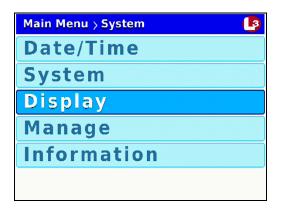
-OR -

If **System** is *not* highlighted, press the 🔊 or 🕤 button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** *twice* to highlight the **Display** option.



6 Press **R** to select the **Display** option. The Display screen displays.

Main Menu > System > Displa	y 🥵
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press **()** to advance to the *Temp/Volt display* field.

Main Menu > System > Display	
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *Temp/Volt display* field.



Main Menu > System > Display	<b>B</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press  $\triangleright$  to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.

## Turning the 'WLAN' Display On/Off

This section describes how to turn the wireless LAN connection indicator On/Off, as shown below. When the bars are green (pictured below), it indicates that the DVR is currently connected to your LAN. When the bars are white, it indicates that the DVR is *not* currently connected to your LAN.

By default, this indicator is on.



- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the word button until the word light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** *twice* to highlight the **Display** option.

Main Menu > System	B
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Display** option. The Display screen displays.



Main Menu > System > Displa	у 🤒
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

**7** Press **1** *twice* to advance to the WLAN display field.

Main Menu > System > Display	<b>B</b>
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
GPS/Speed display	ON
WLAN display	ON
Temp/Volt display	OFF

8 Press **R** to select the *WLAN display* field.

Main Menu > System > Display	6
Light trigger	ON
Siren trigger	ON
Brakes trigger	ON
Aux1 trigger	ON
Aux2 trigger	OFF
Speed trigger	ON
<b>GPS/Speed display</b>	ON
WLAN display	ON
Temp/Volt display	OFF

- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.



# **Entering/Changing the Wireless Options**

This section describes how to enter or change the wireless options that enable your DVR to communicate with your agency's *access points* (for a definition, see Glossary). Typically, you only need to enter these options if 1) your Flashback3 is installed in a vehicle, or 2) your Flashback3 is installed in an interview room *and* you are using the Vehicle Viewer or Vehicle Viewer Live application. If your DVR is installed in an interview room and you are *not* using Vehicle Viewer or Vehicle Viewer Live, see "Entering/Changing the Ethernet Options" on page 151 instead.

These procedures should be performed under the guidance of your agency's IT staff *or* an L-3 Mobile-Vision Support professional.

For specific instructions, see:

- □ Entering/Changing the Wireless IP, below
- □ Entering/Changing the Wireless IP Mask, page 143
- □ Entering/Changing the Wireless Gateway IP, page 146
- **T**urning the Wireless DHCP Option On/Off, page 149.

#### **Entering/Changing the Wireless IP**

This section describes how to enter or change the IP address of the DVR's wireless network interface controller (NIC).



**NOTE**: If you want your DHCP server to automatically provide the wireless IP addresses to this DVR, do *not* enter this field. Instead, turn the Wireless DHCP option *on*, as described in "Turning the Wireless DHCP Option On/Off" on page 149.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu 📑
System
Network
Recording
User

**3** Press the **D** or **D** button until **Network** is highlighted.

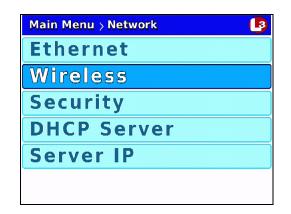


Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	3
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press D to highlight the **Wireless** option.



6 Press **R** to select the **Wireless** option. The Wireless screen displays.

Main Menu > Network > Wireless 🛛 🚺	
IP Address	192.168. 10.106
NetMask	255.255.255. 0
Gateway	192.168. 10. 10
DHCP	OFF

7 Press **R** to select the *IP Address* field.

Main Menu > Network > Wireless 🛛 🔒	
IP Address	<b>192</b> .168. 10.106
Netmask	255.255.255. 0
Gateway	192.168. 10. 10
DHCP	OFF

- 8 To enter/change the first segment of the IP address, proceed to the next step. Otherwise use the D button to advance to the first segment you wish to change.
- **9** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 11.

- 10 Press **(D)**. The number 255 displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- **11** Use the **D** button to advance to the next segment you wish to enter/change.
- **12** Repeat steps 9 11 until all four segments of the IP address are entered/updated.
- **13** Press **(M)** *four times* to save your changes and exit this option.



## **Entering/Changing the Wireless NetMask**

This section describes how to enter or change the IP address for the subnet mask of the DVR's wireless network interface controller (NIC). If you are using the default 192.168.10.X network, the value of this field will be **255.255.255.0**.

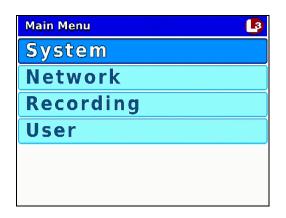


**WARNING**: If you are using both a *wireless* network and an *Ethernet* network, each Subnet must be **unique**. You cannot use the same Subnet for both networks!



**NOTE**: If you want your DHCP server to automatically provide the wireless IP addresses to this DVR, do *not* enter this field. Instead, turn the Wireless DHCP option *on*, as described in "Turning the Wireless DHCP Option On/Off" on page 149.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.



**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.



Main Menu > Network	6
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press D to highlight the **Wireless** option.

Main Menu > Network	9
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	
	_

**6** Press **R** to select the **Wireless** option. The Wireless screen displays.

Main Menu > Network > Wireless	
IP Address	192.168. 10.106
NetMask	255.255.255. 0
Gateway	192.168. 10. 10
DHCP	OFF

**7** Press **D** to advance to the *NetMask* field.



Main Menu > Net	work > Wireless 👘 🥵
IP Address	192.168. 10.106
Netmask	255.255.255. 0
Gateway	192.168. 10. 10
DHCP	OFF

8 Press **R** to select the *NetMask* field.

Main Menu > Network > Wireless 🛛 🌆	
IP Address	192.168. 10.106
Netmask	255.255.255.0
Gateway	192.168. 10. 10
DHCP	OFF

- **10** If the current value of this IP segment is **0**, proceed to the next step.

-OR-

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 12.

- 11 Press **(D)**. The number 255 displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- 12 Use the D button to advance to the next segment you wish to enter/change.
- **13** Repeat steps 10 12 until all four segments of the IP address are entered/updated.
- **14** Press **(M)** *four times* to save your changes and exit this option.



#### Entering/Changing the Wireless Gateway IP

This section describes how to enter or change the gateway address for the DVR's wireless network interface card (NIC). This value is usually set to the IP of the storage server.



**NOTE**: If you want your DHCP server to automatically provide the wireless IP addresses to this DVR, do *not* enter this field. Instead, turn the Wireless DHCP option *on*, as described in "Turning the Wireless DHCP Option On/Off" on page 149.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	- 13
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

System	
Notwork	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.



Ethernet Wireless Security
Security
DHCP Server
Server IP

**5** Press **(D)** to highlight the **Wireless** option.

Main Menu > Network	3
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

6 Press **R** to select the **Wireless** option. The Wireless screen displays.

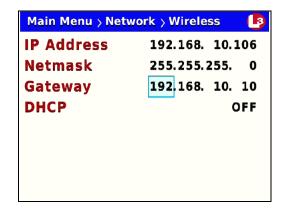
Main Menu > Net	work > Wireless 👘 🚯
IP Address	192.168. 10.106
NetMask	255.255.255. 0
Gateway	192.168. 10. 10
DHCP	OFF

**7** Press **1** *twice* to advance to the *Gateway* field.



Main Menu > Network > Wireless		
IP Address	192.168. 10.106	
Netmask	255.255.255. 0	
Gateway	192.168. 10. 10	
DHCP	OFF	

8 Press **R** to select the *Gateway* field.



- **9** To enter/change the first segment of the IP address, proceed to the next step. Otherwise use the Ď button to advance to the first segment you wish to change.
- **10** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 12.

- 11 Press **(D)**. The number 255 displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- 12 Use the D button to advance to the next segment you wish to enter/change.
- **13** Repeat steps 10 12 until all four segments of the IP address are entered/updated.
- **14** Press **(M)** *four times* to save your changes and exit this option.



## Turning the Wireless DHCP Option On/Off

This section describes how to turn the wireless DHCP wireless option on/off. If this option is *on*, your DHCP server will automatically provide the wireless IP addresses to this DVR, overriding the values in the *IP Address*, *NetMask*, and *Gateway* fields. If this option is *off*, you will have to manually assign IP addresses to this DVR by entering the *IP Address*, *NetMask*, and *Gateway* fields on the Wireless screen.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.



Main Menu > Network	6
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **D** to highlight the **Wireless** option.

Main Menu > Network	9
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	
	_

6 Press **R** to select the **Wireless** option. The Wireless screen displays.

Main Menu > Network > Wireless					
IP Address	192.168. 10.106				
NetMask	255.255.255. 0				
Gateway	192.168. 10. 10				
DHCP	OFF				

**7** Press **()** to advance to the *DHCP* field.



Main Menu > Network > Wireless				
IP Address	192.168. 10.106	5		
Netmask	255.255.255. 0	)		
Gateway	192.168. 10. 10	)		
DHCP	OFF			

8 Press  $\bigcirc$  to select the DHCP field.

Main Menu > Network > Wireless 🛛 🧕					
IP Address	192.168. 10.106				
Netmask	255.255.255. 0				
Gateway	192.168. 10. 10				
DHCP	OFF				

- 9 Press ( to toggle the field value to ON or OFF.
- **10** Press **(M)** *four times* to save your changes and exit this option.

If you changed the value of the *DHCP* field from **ON** to **OFF**, you will have to manually enter the *IP Address*, *NetMask*, and *Gateway* fields. For specific instructions, see:

- □ Entering/Changing the Wireless IP, page 140
- □ Entering/Changing the Wireless IP Mask, page 143
- □ Entering/Changing the Wireless Gateway IP, page 146.

## **Entering/Changing the Ethernet Options**

This section describes how to enter or change the wireless options that enable your DVR to communicate with your LAN. Typically, you only need to enter these options if 1) your Flashback3 is installed in an interview room, or 2) your Flashback3 is installed in a vehicle *and* you are using the Vehicle Viewer or Vehicle Viewer Live application. If your Flashback3 is installed in a vehicle and you are *not* using Vehicle Viewer or Vehicle Viewer Live, see "Entering/Changing the Wireless Options" on page 140 instead.



These procedures should be performed under the guidance of your agency's IT staff *or* an L-3 Mobile-Vision support professional.

For specific instructions, see:

- □ Entering/Changing the Ethernet IP, below
- □ Entering/Changing the Ethernet IP Mask, page 154
- □ Entering/Changing the Ethernet Gateway IP, page 157
- □ Changing the Gateway Type, page 160
- **Turning the Ethernet DHCP Option On/Off, page 162**
- □ Configuring the Flashback to Act as a DHCP Server, page 164.

#### **Entering/Changing the Ethernet IP**

This section describes how to enter or change the IP address of the internal Ethernet LAN interface.



**NOTE**: If you want your DHCP server to automatically provide the Ethernet addresses to this DVR, do *not* enter this field. Instead, turn the Ethernet DHCP option *on*, as described in "Turning the Ethernet DHCP Option On/Off" on page 162.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	- 13
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	<b>B</b>
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **R** to select the **Ethernet** option. The Ethernet screen displays.

Main Menu-Network-Ethernet					
IP Address	10.	0.	0.	1	
Netmask	255.	0.	0.	0	
Gateway	0.	0.	0.	0	
DHCP		OFF			
Default Gateway Ethernet			net		

6 Press **R** to select the *IP Address* field.

Main Menu•Network•Ethernet 🏼 🛃						
IP Address	10.	0.	0.	1		
Netmask	255.	0.	0.	0		
Gateway	0.	0.	0.	0		
DHCP	OFF			FF		
Default Gateway			therr	net		

- 7 To enter/change the first segment of the IP address, proceed to the next step.Otherwise use the D button to advance to the first segment you wish to change.
- 8 If the current value of this IP segment is 0, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 10.

- **10** Use the **D** button to advance to the next segment you wish to enter/change.
- **11** Repeat steps 8 10 until all four segments of the IP address are entered/updated.
- 12 Press M *four times* to save your changes and exit this option.

## **Entering/Changing the Ethernet NetMask**

This section describes how to enter or change the netmask IP address for the internal Ethernet LAN interface. For more information on when/why you might need to update this field, see "Entering/Changing the Ethernet Options" on page 151.



**WARNING**: If you are using both a *wireless* network and an *Ethernet* network, each NetMask must be **unique**. You cannot use the same NetMask for both networks!



**NOTE**: If you want your DHCP server to automatically provide the Ethernet addresses to this DVR, do *not* enter this field. Instead, turn the Ethernet DHCP option *on*, as described in "Turning the Ethernet DHCP Option On/Off" on page 162.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	Ŀ
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	>
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	Ī
	_

**5** Press **R** to select the **Ethernet** option. The Ethernet screen displays.

Main Menu-Network-Ethernet				
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			C	FF
<b>Default Gateway</b>		E	theri	net

6 Press 🚺 to advance to the *Netmask* field.

Main Menu > Network > Ethernet				B
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			0	FF
<b>Default Gatew</b>	/ay	W	irele	SS

**7** Press  $\mathbb{R}$  to select the *Netmask* field.

			et	6
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			0	FF
<b>Default Gatew</b>	ay	W	irele	ss

- **9** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 11.

Page | 156



- **10** Press **(D)**. The number **255** displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- **11** Use the **D** button to advance to the next segment you wish to enter/change.
- **12** Repeat steps 9 11 until all four segments of the IP address are entered/updated.
- **13** Press **(M)** *four times* to save your changes and exit this option.

#### **Entering/Changing the Ethernet Gateway IP**

This section describes how to enter or change the gateway IP address for the internal Ethernet LAN interface. For more information on when/why you might need to update this field, see "Entering/Changing the Ethernet Options" on page 151.



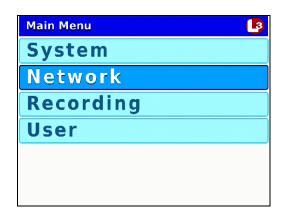
**NOTE**: If you want your DHCP server to automatically provide the ethernet addresses to this DVR, do *not* enter this field. Instead, turn the Ethernet DHCP option *on*, as described in "Turning the Ethernet DHCP Option On/Off" on page 162.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu 🕒	)
System	
Network	
Recording	Ĵ
User	Ĵ
	-

**3** Press the **D** or **D** button until **Network** is highlighted.





4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **R** to select the **Ethernet** option. The Ethernet screen displays.

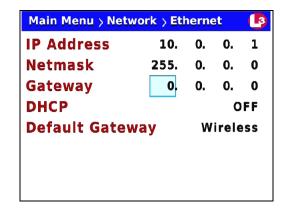
Main Menu-Network-Ethernet				
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			C	FF
Default Gateway	1	E	theri	net

**6** Press **D** *twice* to advance to the *Gateway* field.



Main Menu > Network > Ethernet				6
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			0	FF
Default Gateway Wirele				ss

**7** Press **R** to select the *Gateway* field.



- 8 To enter/change the first segment of the IP address, proceed to the next step. Otherwise use the 🕑 button to advance to the first segment you wish to change.
- **9** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 11.

- 10 Press **(II)**. The number 255 displays. Keep pressing the **(III)** button until the desired number displays. (If you overshoot the number, press **(III)** to back up.)
- **11** Use the **D** button to advance to the next segment you wish to enter/change.
- **12** Repeat steps 9 11 until all four segments of the IP address are entered/updated.
- **13** Press **()** *four times* to save your changes and exit this option.



#### Changing the Gateway Type

This section describes how to change the gateway type. There are two gateway options: *Wireless* (default) or *Ethernet*.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	8
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	
·····	

4 Press **R** to select the **Network** option. The Network menu displays.



Main Menu > Network	8
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **R** to select the **Ethernet** option. The Ethernet screen displays.

Main Menu-Network-Ethernet				<b>B</b>
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP		OFF		
Default Gateway		Ethernet		

6 Press **O** to advance to the *Default Gateway* field.

Main Menu > Network > Ethernet			B	
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			0	FF
Default Gateway Wire			irele	SS

**7** Press **R** to select the *Default Gateway* field.

Main Menu > Network > Ethernet					
IP Address	10.	0.	0.	1	
Netmask	255.	0.	0.	0	
Gateway	0.	0.	0.	0	
DHCP			OFF		
Default Gateway Wirele			SS		

- 8 Press ( ) to toggle the field value to **Ethernet** or **Wireless**.
- **9** Press **(M)** *four times* to save your changes and exit this option.

## Turning the Ethernet DHCP Option On/Off

This section describes how to turn the Ethernet DHCP wireless option on/off. If this option is *on*, your DHCP server will automatically provide the Ethernet IP addresses to this DVR, overriding the values in the *IP Address, Netmask*, and *Gateway* fields. If this option is *off*, you will have to manually assign IP addresses to this DVR by entering the *IP Address, Netmask*, and *Gateway* fields.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	3
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.



Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	3
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

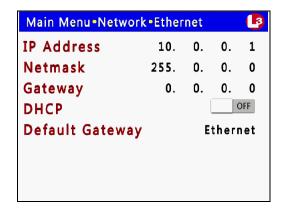
**5** Press **R** to select the **Ethernet** option. The Ethernet screen displays.

Main Menu=Network=Ethernet			13	
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			C	FF
Default Gateway	,	Ethernet		

6 Press **()** *twice* to advance to the *DHCP* field.

Main Menu•Network•Ethernet				
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP			C	FF
Default Gatewa	ay Ethernet			net

**7** Press  $\bigcirc$  to select the *DHCP* field.



- 8 Press ( to toggle the field value to ON or OFF.
- 9 Press M four times to save your changes and exit this option.

If you changed the value of the *DHCP* field from **ON** to **OFF**, you will have to manually enter the *IP Address*, *Netmask*, and *Gateway* fields. For specific instructions, see:

- □ Entering/Changing the Ethernet IP, page 152
- □ Entering/Changing the Ethernet IP Mask, page 154
- □ Entering/Changing the Ethernet Gateway IP, page 157

## Configuring the Flashback to Act as a DHCP Server

This section describes how to configure the Flashback to act as a DHCP server.



**WARNING**: Do not attempt the following procedure without the assistance of your agency's network specialist OR an L-3 Mobile-Vision Technical Support Engineer. Entering incorrect data could cause wireless transmission to fail.

1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)



**2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	13
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	B
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **①** twice to highlight the **DHCP Server** option.



Main Menu > Network	- 13
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

6 Press **R** to select the **DHCP Server** option. The DHCP Server screen displays.

Main Menu > Network > DHCP Server 🌆				
<b>DHCPD</b> Service		OFF		
Lease Time		15		
Start IP	0. 0. 0. 0			
Stop IP	0.	0.	0.	0

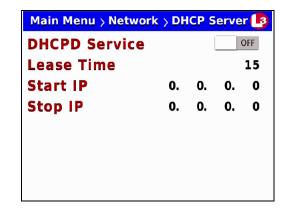
7 Check the value of the *DHCPD Service* field.

If the value of the *DHCPD Service* field is **ON** (default), skip to step 11.

-OR -

If the value of the DHCPD Service field is OFF, proceed to the next step.

8 Press **R** to select the *DHCPD Service* field.





- **9** Press  $\triangleright$  to toggle the field value to **ON**.
- **10** Press **()**.

What isNote the value in the Lease Time field. This field is used to select the amount of time,Lease Time?in minutes, that you want the DVR to idle on the network before its IP address is<br/>eligible for reassignment. System default is 15 minutes.

**11** To keep the current *Lease Time* value, press **1** *twice* to advance to the *Start IP* field. Next, skip to step 16.

-OR -

To change the current *Lease Time* value, press 🔊 to advance to the *Lease Time* field.

Main Menu-Network	-DHCF	P Serv	ver	6
DHCPD Service				ON
Lease Time				15
Start IP	0.	0.	0.	0
Stop IP	0.	0.	0.	0

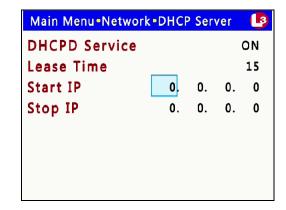
**12** Press **R** to select the *Lease Time* field.

Main Menu-Network	-DHCF	9 Ser	ver	13
DHCPD Service				ON
Lease Time				15
Start IP	0.	0.	0.	0
Stop IP	0.	0.	0.	0

- 13 Press the D button until the desired Lease Time minutes display—15, 30, 45, or 60.
- 14 Press 🔞.
- **15** Press **1** to advance to the *Start IP* field.

Main Menu-Network	DHC	P Serv	ver	6
DHCPD Service				ON
Lease Time				15
Start IP	0.	0.	0.	0
Stop IP	0.	0.	0.	0

**16** Press **R** to select the *Start IP* field.





**NOTE**: The IP range that you specify in the *Start IP* and *Stop IP* fields must be outside the range of any existing DHCP servers.

- **17** To enter/change the first segment of the IP address, proceed to the next step. Otherwise use the Ď button to advance to the first segment you wish to change.
- **18** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

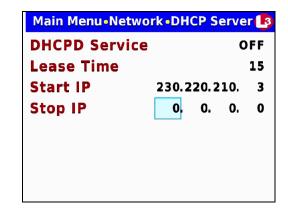
If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 20.

- 19 Press **(II)**. The number 255 displays. Keep pressing the **(II)** button until the desired number displays. (If you overshoot the number, press **(II)** to back up.)
- **20** Use the **D** button to advance to the next segment you wish to enter/change.
- **21** Repeat steps 18 20 until all four segments of the IP address are entered/updated.
- **22** Once the correct IP address displays in the *Start IP* field, press **(W)**.
- **23** Press D to advance to the *Stop IP* field.



Main Menu-Netwo	rk•DH	CP S	erve	r 🖪
<b>DHCPD Service</b>			0	FF
Lease Time				15
Start IP	230.2	20.2	10.	3
Stop IP	0.	0.	0.	0

**24** Press **R** to select the *Stop IP* field.



- **25** To enter/change the first segment of the IP address, proceed to the next step. Otherwise use the button to advance to the first segment you wish to change.
- **26** If the current value of this IP segment is **0**, proceed to the next step.

-OR -

If the current value of this IP segment is 1 - 255, use the  $\bigcirc$  or  $\bigcirc$  buttons to move the numeric display higher or lower, respectively. Next, skip to step 28.

- 27 Press **(D)**. The number 255 displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- **28** Use the **D** button to advance to the next segment you wish to enter/change.
- **29** Repeat steps 26 28 until all four segments of the IP address are entered/updated.
- **30** Once the correct address displays in the *Stop IP* field, press **(M)** *four times* to save your changes and exit this option.



# **Entering/Changing the Wireless Security Settings**

This section describes how to enter and/or change the wireless security settings.



**WARNING**: In order for the automatic transmission process to work properly, these settings must match those on the Wireless Access Points. Do not change any of these settings unless instructed to do so by your agency's Network Administrator *or* an L-3 Mobile-Vision Support technician.

For specific instructions, see:

- □ Changing the Wireless Security Mode, below
- □ Changing the Wireless Authentication Type, page 172
- □ Changing the Wireless Encryption Type, page 175
- □ Entering the Wireless Encryption Key, page 178
- □ Entering Your Wireless SSID, page 181
- □ Entering a Wireless Password, page 184
- □ Turning the Wireless SSL Indicator On/Off, page 187.

#### **Changing the Wireless Security Mode**

This section describes how to change the wireless security mode. By default, this option is set to **WEP-PSK**.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<u>B</u>
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

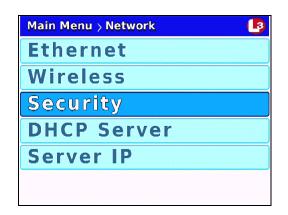


Main Menu	<b>B</b>
System	
Network	
Recording	
User	

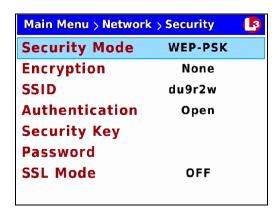
4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	8
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

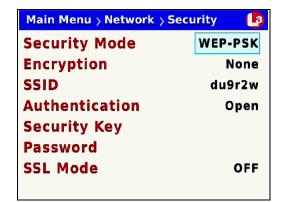
**5** Press **1** twice to advance to the **Security** option.



6 Press **R** to select the **Security** option. The Security screen displays.



**7** Press **R** to select the *Security Mode* field.



- 8 Using the 🜑 or D buttons, display the security mode you wish to select.
- **9** Press **(M)** *four times* to save your changes and exit this option.

If you selected the **WPA-ENTERPRISE** or **WPA2-ENTERPRISE** mode, you will need to enter the associated wireless certificates through the DES application. For instructions, see "Changing the Wireless Certificates for a Flashback3 DVR that is Not Assigned to a DVR Group" in chapter 5 of the *DEP Administrator's Guide*. If you selected the **WEP-PSK** mode, you will need to enter a wireless encryption password. See "Entering the Wireless Encryption Key" on page 178 for instructions.

## **Changing the Wireless Authentication Type**

This section describes how to change the authentication type used by the wireless mode displayed in the *Security Mode* field on the Security screen. By default, this option is set to **None**.



**NOTE**: If you selected wireless mode WPA-PSK or WPA2-PSK, this field is not required.

1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)



**2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

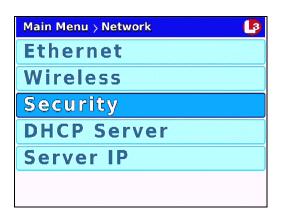
Main Menu	13
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	B
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **D** *twice* to advance to the **Security** option.





6 Press **R** to select the **Security** option. The Security screen displays.

Main Menu > Network > Security		13
Security Mode	WEP-PSK	
Encryption	None	
SSID	du9r2w	
Authentication	Open	
Security Key		
Password		
SSL Mode	OFF	

**7** Press **1** *three times* to advance to the *Authentication* field.

Main Menu > Network > Security		
Security Mode	WEP-PSK	
Encryption	None	
SSID	du9r2w	
Authentication	Open	
Security Key		
Password		
SSL Mode	OFF	

8 Press **R** to select the *Authentication* field.

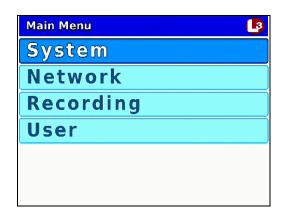


WEP-PSK	
None	
du9r2w	
Open	
OFF	

- 9 Using the 🐼 or 🕟 buttons, display the authentication type you wish to use.
- **10** Press **(M)** *four times* to save your changes and exit this option.

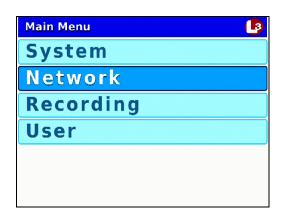
**Changing the Wireless Encryption Type (WPA-PSK & WPA Enterprise only)** This section describes how to change the encryption or *security* type for wireless mode WPA-PSK or WPA Enterprise. By default, this option is set to **AES**.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** Press the **D** or **D** button until **Network** is highlighted.

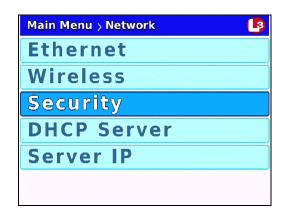




4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press D *twice* to advance to the **Security** option.



6 Press **R** to select the **Security** option. The Security screen displays.



Main Menu•Network•Security	
Security Mode	WPA Enterprise
Encryption	AES
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

**7** Press **()** to advance to the *Encryption* field.

Main Menu-Network-Security	
Security Mode	WPA Enterprise
Encryption	AES
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

**8** Press **R** to select the *Encryption* field.

Security Mode	WPA Enterprise
Encryption	AES
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

- 9 Using the G or D buttons, display the security type you wish to select.
- **10** Press **(M)** *four times* to save your changes and exit this option.



### **Entering the Wireless Encryption Key (WEP-PSK mode only)**

This section describes how to enter your wireless encryption password for wireless mode WEP-PSK. If you selected any other security mode, this field is not required.

Your encryption key must be either 10 digits long (for 64 bits/ascii) or 26 digits long (for 128 bits/hex). It may include any combination of the following characters: a - f; 0 - 9.

System default is 64.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	6
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.



Main Menu > Network	6
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press D twice to advance to the **Security** option.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

6 Press **R** to select the **Security** option. The Security screen displays.

Main Menu > Network	> Security	
Security Mode	WEP-PSK	
Encryption	None	
SSID	du9r2w	
Authentication	Open	
Security Key		
Password		
SSL Mode	OFF	

**7** Press **①** *three times* to advance to the *Security Key* field.



Main Menu > Network >	Security 🗾 🖪
Security Mode	WEP-PSK
Encryption	None
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

8 Press **R** to select the *Security Key* field. A data entry keyboard displays.

Ma	in	Me	enu	$\left \right\rangle$	Ne	two	ork	$\rightarrow$	See	cur	ity	1	1
	1	2	3	4	5	6	7	8	9	0	!	~	#
	а	b	c	d	e	f	g	h	i	j	\$	%	&
	k	I	m	n	0	р	q	r	S	t	*	+	,
	u	v	w	x	у	z	A	В	С	D	7	:	;
	Е	F	G	Н	T	J	Κ	L	Μ	Ν	<	=	>
	0	Ρ	Q	R	S	т	U	۷	W	Х	0	•	^
	Y	Z	(	)	-	?	I	1		_	Ι	{	}
	←	◀	►	<b>—</b>									

You will be using this keyboard to spell out your key, which must be either 10 digits long (for 64 bits/ascii) or 26 digits long (for 128 bits/hex). It may include any combination of the following characters: a - f; 0 - 9.

**9** If there is an existing key displayed at the top of this screen, you have to delete that key first before you can enter a new one. Proceed to the next step for instructions.

– OR –

If there is *no text* displayed at the top of this screen, skip to step 12.

- **10** Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **11** Press **R** several times until the existing key is deleted.
- **12** Using the following navigation buttons, highlight the first letter of your key.
  - Up
     Down
     ...... Right
     ...... Left.
- **13** Press **R**. The selected character displays at the top of the screen.



- **14** Repeat steps 12 and 13 until you have entered a password with the correct number of characters:
  - □ For 64 bits/ascii, enter **10** characters
  - □ For 128 bits/hex, enter **26** characters.



**NOTE**: The Wireless Key display area can only show 22 characters at a time. Since a 128-bit Encryption Key is 26 characters long, the key characters will shift (scroll) to the left as you enter the last 4 characters.

If you need to add or delete a character, use the following buttons:

- ......Move forward one character
- ◀ .....Move back one character
- ←.....Delete previous character

To insert a space, use the  $\square$  icon.

**15** Once the correct key displays, press **(M)** *four times* to exit this option.

#### **Entering Your Wireless SSID**

This section describes how to enter the name of your wireless network, also referred to as a *wireless service set identifier* (SSID).

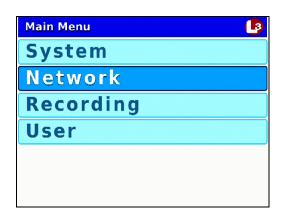
This field is required for all wireless modes.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

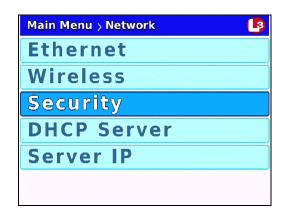




4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press D *twice* to advance to the **Security** option.



6 Press **R** to select the **Security** option. The Security screen displays.



Main Menu > Network	< > Security	B
Security Mode	WEP-PSK	
Encryption	None	
SSID	du9r2w	
Authentication	Open	
Security Key		
Password		
SSL Mode	OFF	

**7** Press D *twice* to advance to the *SSID* field.

Main Menu > Network > Security					
Security Mode	WEP-PSK				
Encryption	None				
SSID	du9r2w				
Authentication	Open				
Security Key					
Password					
SSL Mode	OFF				

8 Press **R** to select the *SSID* field. A data entry keyboard displays.

Ma	in	Me	enu	$\left \right\rangle$	Ne	two	ork	$\langle \rangle$	Se	cur	ity	7		L3
	du	ı9r	·2v	V										
	1	2	3	4	5	6	7	8	9	0	!	~	#	
	а	b	С	d	е	f	g	h	i	j	\$	%	δ	
	k	T	m	n	0	р	q	r	S	t	*	+	,	
	u	V	w	x	У	z	A	В	С	D	1	:	;	
	Ε	F	G	Η	I	J	Κ	L	Μ	Ν	<	=	>	
	0	Ρ	Q	R	S	т	U	۷	W	X	0	•	^	
	Y	Ζ	(	)	-	?	I	1		_	Т	{	}	
	←	◀	►	ш										

You will be using this keyboard to spell out your wireless network name.

**9** If there is an existing network name displayed at the top of this screen, you have to delete that name first before you can enter a new one. Proceed to the next step for instructions.

-OR -

If there is *no text* displayed at the top of this screen, skip to step 12.





- **10** Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **11** Press **R** several times until the existing network name is deleted.
- **12** Using the following navigation buttons, highlight the first letter of your wireless network.
  - Up
     Down
     ...... Right
     ...... Left
- **13** Press **(R)**. The selected character displays at the top of the screen.
- **14** Repeat steps 12 and 13 until the wireless network name is spelled out at the top of your screen. If you need to add or delete a character, use the following buttons:
  - ......Move forward one character
  - ◀ .....Move back one character
  - ←.....Delete previous character

To insert a space, use the  $\square$  icon.

**15** Once the correct name displays, press **(M)** *four times* to save your changes and exit this option.

#### Entering a Wireless Password (WPA-PSK & WPA2-PSK mode only)

This section describes how to enter a wireless password for wireless modes WPA-PSK and WPA2-PSK. If you selected any other security mode, these fields are not required.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main N	lenu		6
Sys	tem		
Net	wor	k	
Rec	ordi	ng	
Use	r		
	-		



**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	6
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	- 13
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **D** *twice* to advance to the **Security** option.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

6 Press **R** to select the **Security** option. The Security screen displays.



Main Menu-Network-Se	curity 🛛 🛃
Security Mode	WPA-PSK
Encryption	AES
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

**7** Press **①** *twice* to advance to the *Password* field.

Main Menu •Network •Secu	ırity 🛛 🕒
Security Mode	WPA-PSK
Encryption	AES
SSID	du9r2w
Authentication	Open
Security Key	
Password	
SSL Mode	OFF

8 Select **R** to select the *Password* field. A data entry keyboard displays.

	Me			etv	vo	r <mark>k -</mark>	Se	cur	ity			l	-
 133			••										
a	b	с	d	е	f	g	h	i	j	k	I	m	
n						-			w				
A	В	С	D	Ε	F	G	Н	I	J	Κ	L	М	
Ν	0	Ρ	Q	R	S	Т	U	۷	W	Х	Y	Z	
0	1	2	3	4	5	6	7	8	9	~	!	0	
#	%	۸	*	(	)	_	+		;	:	{	}	
←	◀	►	ш										

You will be using this keyboard to spell out your WPA-PSK/WPA2-PSK wireless password.



**9** If there is an existing password displayed at the top of this screen, you have to delete that password first before you can enter a new one. Proceed to the next step for instructions.

- OR -

If there is *no text* displayed at the top of this screen, skip to step 12.

- **10** Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **11** Press **R** several times until the existing password is deleted.
- **12** Using the following navigation buttons, highlight the first letter of the wireless password.
  - Up
     Down
     Right
     Left
- **13** Press **R**. The selected character displays at the top of the screen.
- **14** Repeat steps 12 and 13 until the wireless password is spelled out at the top of your screen.
- **15** Once the correct password displays, press **(M)** *four times* to save your changes and exit this option.

### Turning the Wireless SSL Indicator On/Off

This section describes how to turn the wireless SSL indicator on or off. When this option is *on*, it indicates that you are using the SSL (Secure Socket Layer) type encryption to authenticate on your wireless network.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	



**3** Press the **D** or **D** button until **Network** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	- 🕒
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **D** *twice* to advance to the **Security** option.

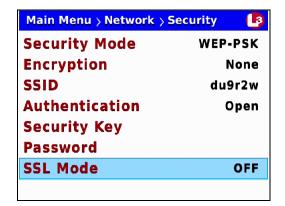
Main Menu > Network	6
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

6 Press **R** to select the **Security** option. The Security screen displays.



Main Menu > Network > Security				
Security Mode	WEP-PSK			
Encryption	None			
SSID	du9r2w			
Authentication	Open			
Security Key				
Password				
SSL Mode	OFF			

**7** Press **()** to advance to the *SSL Mode* field.



8 Press **R** to select the *SSL Mode* field.



- **9** Press **>** to toggle the field value to **ON** or **OFF**.
- **10** Press **(M)** *four times* to save your changes and exit this option.
- **11** Reboot your DVR. To do so, move the red **AUTO/OFF** switch on your DVR into the *down* (**OFF**) position. After approximately 30 seconds, move it back into the *up* (**AUTO**) position.



# **Entering/Changing System Settings**

This section describes how to perform the following tasks:

- □ Program the ignition timer, below
- □ Enter the DES Admin ID and password, page 192
- □ Enable/disable the USB Login Feature, page 196.

#### **Programming the Ignition Timer**

This section describes how to select the number of minutes that it will take for the DVR to power down after the ignition is turned off: 1, 15 (default), 30, 45, or 60. During the period in which the ignition is *off* but the DVR is still *on*, all automatic triggers will work and you will still be able to initiate a regular recording by pressing  $\mathbb{R}$ . However, if you are using Background Record, it will turn off with the ignition.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- 2 Press (M). The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	
Date/Time	
System	
Display	
Manage	
Information	



**5** Press **D** to advance to the **System** option.

Main Menu > System
Date/Time
System
Display
Manage
Information

6 Press **R** to select the **System** option. The System screen displays.

Main Menu > System > Sys	stem 🛛 🖪
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**7** Press **R** to select the *Ignition Tim*er field.

stem 🛛 🖪
30
admin
admin
ON
OFF
ON
English
OFF

- 8 Using the 🜑 or 🕑 buttons, display the number of minutes you wish to select.
- **9** Press **(M)** *four times* to save your changes and exit this option.



### **Changing the DES Admin ID and Password**

During wireless transmission, your videos move from *DVR* to *access point* to *storage server*. In order for the system to login to the storage server, it requires a valid Administrator's User ID and Password. By default, both the *Admin ID* and *Password* fields are set to **admin**. To change these values, use the following procedure.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** to advance to the **System** option.



Date/Time	
System	
Display	
Manage	
Information	

**6** Press **R** to select the **System** option. The System screen displays.

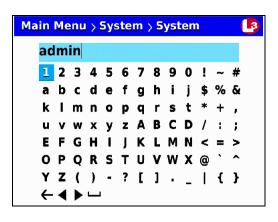
Main Menu > System > Syst	em 🥵
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**7** Press **1** to advance to the *Admin ID* field.

Main Menu > System > Sys	stem 🛛 🛃
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

8 Press **R** to select the *Admin ID* field. A data entry keyboard displays.





You will be using this keyboard to spell out your DES Administrator's User ID. Begin by deleting the old Admin ID, as described in steps 9 and 10.

- 9 Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **10** Press **R** several times until the existing Admin User ID is deleted.
- **11** Using the following navigation buttons, highlight the first letter of the new Admin User ID you wish to enter.
  - Up
     Down
  - 🖸 ..... Right
  - 🜑 ..... Left
- 12 Press **R**. The selected character displays at the top of the screen.
- **13** Repeat steps 11 and 12 until the Admin User ID is spelled out at the top of your screen. If you need to add or delete a character, use the following buttons:

  - ◀ .....Move back one character
  - ←.....Delete previous character

To insert a space, use the  $\square$  icon.

- 14 Once the correct Admin User ID displays, press (M) twice to save your changes and exit the data entry keyboard.
- **15** Press **D** to advance to the *Admin Password* field.



Main Menu > System > Sys	tem 🧾 🥵
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**16** Press **R** to select the *Password* field. A data entry keyboard displays.

Ma	in	Me	enu	$\left \right\rangle$	5ys	ste	m	) S	yst	en	ı		Ŀ
	ad	m	in										
	1	2	3	4	5	6	7	8	9	0	!	~	#
	а	b	C	d	е	f	g	h	i	j	\$	%	&
	k	I	m	n	0	р	q	r	S	t	*	+	,
	u	v	w	х	у	z	A	В	С	D	7	:	;
	Ε	F	G	Н	T	J	Κ	L	Μ	Ν	<	=	>
	0	Ρ	Q	R	S	т	U	۷	W	Х	0	`	^
	Y	Ζ	(	)	-	?	I	1		_	Ι	{	}
	←	◀	►	ш									

You will be using this keyboard to spell out your DES Administrator's password. Begin by deleting the old password, as described in steps 17 and 18.

- **17** Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **18** Press **R** several times until the password is deleted.
- **19** Using the navigation buttons, navigate to the first letter of the new password you wish to enter.
- **20** Press **R**. The selected character displays at the top of the screen.
- **21** Repeat steps 19 and 20 until the administrator's password is spelled out at the top of your screen. If you need to add or delete a character, use the following buttons:
  - ......Move forward one character
  - Move back one character
  - ←.....Delete previous character

To insert a space, use the - icon.

**22** Once the correct password displays, press M *four times* to save your changes and exit this option.



### **Enabling/Disabling the USB Login Feature**

When the USB login feature is *enabled*, officers can use a USB login key to login to the DVR. When the USB login feature is *disabled*, officers *cannot* use a USB login key to login to the DVR. By default, the USB login feature is *enabled*.

For more information on the USB Login Key and how it's used, see "Logging into a DVR Using Your USB Login Key" on page 20.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- 2 Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **D** to advance to the **System** option.



Date/Time	
System	
Display	
Manage	
Information	

**6** Press **R** to select the **System** option. The System screen displays.

Main Menu > System > Sys	stem 🛛 🕒 🥵
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

**7** Press D *three times* to advance to the *Login Access* field.

Main Menu > System > Sys	stem 🛛 🛃
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

8 Press **R** to select the *Login Access* field.



Main Menu > System > Sys	stem 🕒
Ignition Timer	30
Admin ID	admin
Password	admin
Login Access	ON
Metric Units	OFF
Record Beep	ON
Language	English
Keystroke Beep	OFF

- **9** Press **>** to toggle the field value to **ON** (enabled) or **OFF** (disabled).
- **10** Press **(M)** *four times* to save your changes and exit this option.

### **Entering the Server Address**

This section describes how to enter the IP address that identifies your agency's DES storage server. This procedure is only necessary in special situations. Do not enter this information unless instructed to do so by your Network Specialist and/or L-3 Mobile-Vision Technical Support Engineer.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	6
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **Network** is highlighted.

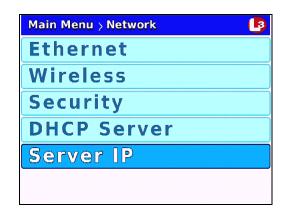


Main Menu	B
System	
Network	
Recording	
User	

4 Press **R** to select the **Network** option. The Network menu displays.

Main Menu > Network	6
Ethernet	
Wireless	
Security	
DHCP Server	
Server IP	

**5** Press **()** to advance to the **Server IP** option.



6 Press **R** to select the **Server IP** option. A data entry keyboard displays.



Main	Main Menu•Network•Server IP											
	Server Addresses											
		•	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	0.	0					
0.	0.	0.	0	0.	0.	00						

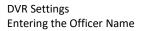
You will be using this keyboard to enter the Server IP address(es) for your DES server(s).

- **7** Press **R** to highlight the first segment of the first Server IP address.
- 8 Press **I**. The number **255** displays. Keep pressing the **I** button until the desired number displays. (If you overshoot the number, press **I** to back up.)
- **9** Press **(D)** to advance to the next segment of the IP address.
- 10 Press **(D)**. The number 255 displays. Keep pressing the **(D)** button until the desired number displays. (If you overshoot the number, press **(D)** to back up.)
- **11** Repeat steps 9 and 10 until all four segments of the Server IP address are entered.
- **12** If your agency has *only one* DES server, skip to step 16.

-OR -

If your agency has *more than one* DES server, proceed to the next step.

- **13** Press **()**.
- 14 Press 🚺
- **15** Enter the IP address for the second server, as described in steps 7 11.
- **16** Press **()** *four times* to save your changes and exit this option.





## **Entering the Officer Name**

Normally, the officer name is automatically transferred to the DVR when an officer logs in using his DVR Login Key. However, there are a few circumstances when you might want or need to login manually:

- □ Scenario 1. You are the *only person* who drives the vehicle in which the DVR is installed. In this case, you can enter your name *once* to ensure that all future videos recorded on the DVR will be linked to you.
- □ Scenario 2. You need to login to a DVR but you have either lost, misplaced, or forgotten your USB login key.

By default, the *Officer Name* field is set to **No Name**.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	8
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **User** is highlighted.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	



4 Press **R** to select the **User** option. The User screen displays.

Main Menu-User	6
Officer Name	No Name
Unit Name	16

**5** Press **R** to select the *Officer Name* field. A data entry keyboard displays.

Ma	in	Me	en	u - l	Jse	er							(	13
0	ffi	ce	r I	Na	m	e:								
	No	> N	lar	ne										
	а	b	с	d	е	f	g	h	i	j	k	T	m	
	n	0	р	q	r	s	t	u	v	w	x	У	z	
	A	В	С	D	E	F	G	Η	I	J	Κ	L	Μ	
	Ν	0	Ρ	Q	R	S	Т	U	۷	W	Х	Y	Ζ	
	0	1	2	3	4	5	6	7	8	9	~	I	@	
	#	%	^	*	(	)	_	+	•	;	:	{	}	
	÷	◀	►											

You will be using this keyboard to spell out the officer's name. Begin by deleting the old name, as described in steps 6 and 7.

- 6 Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **7** Press **R** several times until the existing officer name is deleted.
- **8** Using the following navigation buttons, highlight the first letter of the officer name you wish to enter.
  - Up
     Down
     Right
     Left
- **9** Press **R**. The selected character displays at the top of the screen.



**10** Repeat steps 8 and 9 until the officer name is spelled out at the top of your screen.

If you need to add or delete a character, use the following buttons:

- ......Move forward one character
- .....Move back one character
- ←.....Delete previous character

To insert a space, use the  $\square$  icon.

**11** Once the correct name displays, press **(M)** *three times* to save your changes and exit this option.

## **Entering the DVR Unit Name**

This section describes how to assign a name and/or number to your DVR. Many agencies give their DVRs the same name as the vehicle in which they are installed, such as "Unit 146."

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	3
System	
Network	
Recording	
User	

**3** Press the **D** or **D** button until **User** is highlighted.

	<b>B</b>
System	
Network	
Recording	
User	



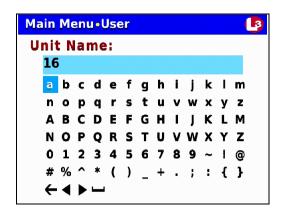
4 Press **R** to select the **User** option. The User screen displays.

Main Menu > User		6
Officer Name	Bakay	
Unit Name	16	

**5** Press D to advance to the *Unit Name* field.

Main Menu > User		<b>b</b>
<b>Officer Name</b>	Bakay	
Unit Name	16	

6 Press **R** to select the *Unit Name* field. A data entry keyboard displays.



You will be using this keyboard to spell out the unit's name and/or number. Begin by deleting the old unit name, as described in steps 7 and 8.

- 7 Press  $\bigcirc$  to highlight the  $\leftarrow$  icon.
- **8** Press **R** several times until the existing unit name is deleted.



- **9** Using the following navigation buttons, highlight the first letter or number of the unit you wish to enter.
  - Up
     Down
     ...... Right
     ...... Left
- **10** Press **R**. The selected character displays at the top of the screen.
- **11** Repeat steps 9 and 10 until the unit name is spelled out at the top of your screen.

If you need to add or delete a character, use the following buttons:

.....Move forward one character
 .....Move back one character

←.....Delete previous character

To insert a space, use the  $\square$  icon.

12 Once the correct unit name displays, press (M) *three times* to save your changes and exit this option.

## **Viewing/Updating Firmware**

Your DVR comes preloaded with the most current version of the Flashback3 firmware. If you have an Extended Maintenance Agreement (EMA) with L-3 Mobile-Vision, you will periodically receive firmware updates via the Flashback application.

If you aren't sure which firmware version you currently have installed on your DVR, see the next section, "Viewing the Current Firmware Version."

To upgrade your DVR's firmware to the latest version, first copy the firmware file to a USB memory stick, as described in "Copying a Firmware File from DEP to a USB Drive" in chapter 5 of the *DEP Administrator's Guide*. Next, import that file to your DVR, as described in "Transferring a Firmware File from a USB Drive to a DVR" on page 207.

For more information, see:

- □ Viewing the Current Firmware Version, next page
- □ Transferring a Firmware File from a USB Drive to a DVR, page 207.



### **Viewing the Current Firmware Version**

This section describes how to view the firmware version that is currently installed on your DVR.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **()** to advance to the **Information** option.



Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Information** option. The Information screen displays.

Main Menu > Sy	stem > Information 🛛 🕒 🤒
Firmware	3.1.2
UNIT ID	0000050103
LAN	00:17:EB:73:23:B0
WIFI	00:80:48:79:98:54
ΑΡ	00:00:00:00:00:00
Fix AP	00:00:00:00:00:00

The firmware version that is currently installed on this DVR displays in the *Firmware* field.

**7** Press **(M)** *three times* to exit this option.

### Transferring a Firmware File from a USB Drive to a DVR

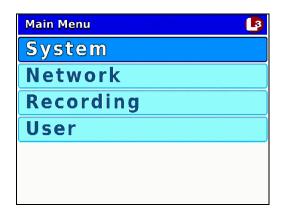
This section describes how to manually copy the latest firmware version from a USB memory stick to your DVR. Before you perform this task, copy the latest firmware file from the Flashback application to a USB stick, as described in "Copying a Firmware File from DEP to a USB Drive" in chapter 5 of the *DEP Administrator's Guide*.

- 1 Verify that all videos have been removed from the Flashback3 DVR unit. If there are any videos remaining on the DVR's SD card, remove the card from the DVR and perform a manual upload. For more information on manual uploads, see "Manually Uploading Videos from an SD card Reader or ESU" in chapter 2 of the DEP Administrator's Guide.
- **2** Take the USB drive that contains the firmware file and insert it into the USB port on the front of your Flashback DVR.





- **3** Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- 4 Press (M). The Main Menu displays.



**5** If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

6 Press **R** to select the **System** option. The System menu displays.

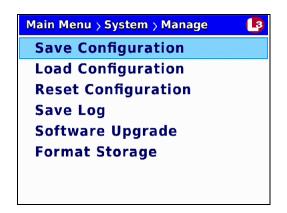
Main Menu > System	- B
Date/Time	
System	
Display	
Manage	
Information	



7 Press **()** *twice* to advance to the **Manage** option.

Main Menu > System	- 13
Date/Time	
System	
Display	
Manage	
Information	

8 Press **R** to select the **Manage** option. The Manage screen displays.



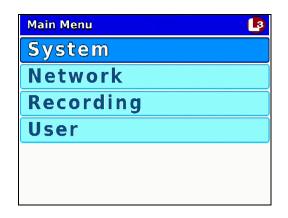
- **9** Press **1** *twice* to advance to the **Software Upgrade** option.
- **10** Press **R** to select the **Software Upgrade** option. The system begins updating your DVR. This process may take a minute or two. You will see the following status message on your screen during the upload.

Main Menu > System > Manage	13
Software Upgrade!	

Once the process is complete, a confirmation message will display, then the DVR will automatically reboot.



- **11** Once the reboot is complete and the USB drive has stopped blinking, you may remove the USB drive from the DVR.
- **12** Press the and button to turn Auto mode *off*.
- **13** Press **(M)**. The Main Menu displays.



**14** Press **R** to select the **System** option. The System menu displays.

Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**15** Press **()** to advance to the **Information** option.



**16** Press **R** to select the **Information** option. The Information screen displays.

Main Menu > System > Information		
Firmware	3.1.2	
UNIT ID	0000050103	
LAN	00:17:EB:73:23:B0	
WIFI	00:80:48:79:98:54	
АР	00:00:00:00:00:00	
Fix AP	00:00:00:00:00:00	

- 17 Check to make sure the new firmware version displays in the *Firmware* field.
- **18** Press **(M)** *three times* to exit this option.
- **19** Record a short test video (1-2 minutes) and validate that your video transfers successfully across the network to the server.

# Copying the DVR Configuration File to/from DVR

The DVR configuration file—config.xml—contains all of your DVR's settings. If desired, you can manually copy this file from one DVR to another using a USB memory stick. You can also copy a config.xml file to the Flashback application in order to transfer one DVR's settings to an entire fleet of DVRs. For information on the latter procedure, see "Creating a DVR Group from a DVR's config.xml File" in chapter 5 of the *DEP Administrator's Guide*.

For more information, see:

- Copying the config.xml File from Your DVR to a USB drive, below
- Copying the config.xml File from a USB Drive to Your DVR, page 214.

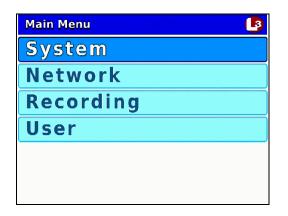
#### Copying the config.xml File from Your DVR to a USB Drive

This section describes how to copy a DVR's configuration file—config.xml—to a USB memory stick. This file contains all of a DVR's current settings. After you copy this file to USB stick, you can either upload the file to another DVR *or* upload it to the Flashback application. For more information on how you might use this file with the Flashback application, see "Fleet Management" in chapter 5 of the *DEP Administrator's Guide*.

**1** Insert a USB memory stick in the Flashback's USB port.



- 2 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **3** Press **(M)**. The Main Menu displays.



4 If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

**5** Press **R** to select the **System** option. The System menu displays.

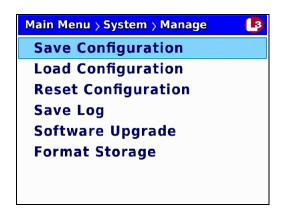
Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	



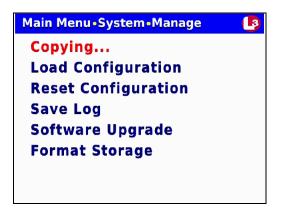
6 Press **()** *twice* to advance to the **Manage** option.

Main Menu > System	6
Date/Time	
System	
Display	
Manage	
Information	

7 Press **R** to select the **Manage** option. The Manage screen displays.



8 Press **R** to select the **Save Configuration** option. The system copies the DVR's config.xml to the USB drive. While this process takes place, a status message will display on-screen.



Once the **Copying...** message disappears, the transfer is complete.

**9** Press **(M)** *three times* to exit this option.



#### Copying the config.xml File from a USB Drive to Your DVR

This section describes how to copy a DVR configuration file—config.xml—from a USB memory stick to your DVR. This file contains all of a DVR's settings, allowing you to copy settings from one DVR to another.

For instructions on how to obtain a config.xml file from another DVR, see the previous section, "Copying the Configuration file from DVR to USB drive" and/or "Exporting a DVR's config.xml File" in chapter 5 of the *DEP Administrator's Guide*.

**1** Take the USB drive that contains the config.xml file and insert it into the USB port on the front of your DVR.



- 2 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **3** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

4 If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

**5** Press **R** to select the **System** option. The System menu displays.

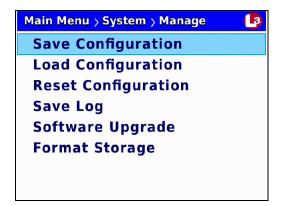


Main Menu > System	- 🕒
Date/Time	
System	
Display	
Manage	
Information	

6 Press D *twice* to advance to the Manage option.

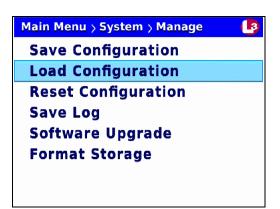
Main Menu > System	3
Date/Time	
System	
Display	
Manage	
Information	

7 Press **R** to select the **Manage** option. The Manage screen displays.



8 Press 🚺 to advance to the Load Configuration option.





**9** Press **R** to select the **Load Configuration** option. The system copies the config.xml file from the USB drive to your DVR. While this process takes place, a status message will display on-screen.



Once the **Loading...** message disappears, the transfer is complete.

**10** Press **(M)** *three times* to exit this option. The system will automatically reboot.

## **Resetting the DVR to its Factory Settings**

This section describes how to return your DVR to its original factory settings. When performing this procedure, keep in mind that all previous changes made to the DVR menus will be wiped out.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



Main Menu	<b>1</b> 3
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the 🔊 or 🕤 button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

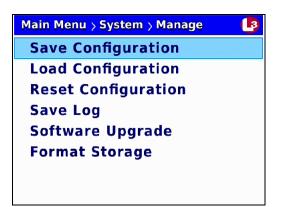
Main Menu > System	
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **1** *twice* to advance to the **Manage** option.

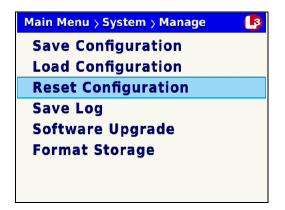
Main Menu > System	3
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Manage** option. The Manage screen displays.





**7** Press **1** *twice* to advance to the **Reset Configuration** option.



8 Press **R** to select the **Reset Configuration** option. The system resets the DVR to its original factory settings and then reboots the DVR. While this process takes place, a status message will display on-screen.





# Copying the DVR Log Files to a USB Drive

This section describes how to copy the DVR log files to a USB memory stick. These files are used by L-3 Mobile-Vision support staff to troubleshoot technical problems. Perform this task when instructed to do so by your L-3 Mobile-Vision Technical Support Engineer.

1 Insert a blank USB memory stick in the Flashback's USB port.



- 2 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 400 button until the 400 light turns *off*.)
- **3** Press **(M)**. The Main Menu displays.

Main Menu	6
System	
Network	
Recording	
User	

4 If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

**5** Press **R** to select the **System** option. The System menu displays.

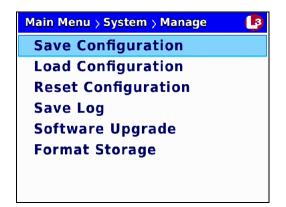


Main Menu > System	- B
Date/Time	
System	
Display	
Manage	
Information	

6 Press **()** *twice* to advance to the **Manage** option.

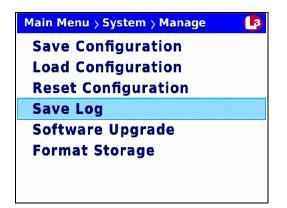
Main Menu > System	6
Date/Time	
System	
Display	
Manage	
Information	

7 Press **R** to select the **Manage** option. The Manage screen displays.

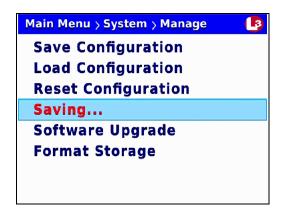


8 Press D *three times* to advance to the Save Log option.





**9** Press **R** to select the **Save Log** option. The system copies the DVR's log files to the USB drive. While this process takes place, a status message will display on-screen.



Once the **Saving...** message disappears, the transfer is complete. This may take several minutes or longer.

- **10** Press **(M)** *three times* to exit this option.
- **11** Remove the USB stick from the DVR.
- **12** Insert the USB stick in a USB port on your PC.
- **13** Send the **flash2.log.backup** file to your L-3 Mobile-Vision Technical Support Engineer as an email attachment.

## Formatting an SD card

This section describes how to reformat an SD card. The SD card is used to temporarily store videos until they can be automatically or manually transferred to the Flashback application. If the SD card you wish to reformat still contains video, either wait until automatic transmission occurs, *or* perform a manual upload. For more information on manual uploads, see "Manually Uploading New Videos" in chapter 2 of the *DEP Administrator's Guide*.



- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- 2 Insert the SD card into your DVR's SD CARD slot.



**3** Press **(M)**. The Main Menu displays.

Main Menu	B
System	
Network	
Recording	
User	

4 If **System** is highlighted, proceed to the next step.

-OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

**5** Press **R** to select the **System** option. The System menu displays.

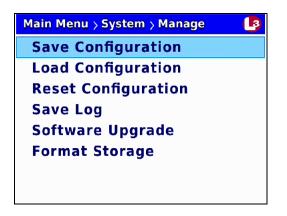
Main Menu > System	- 🕒
Date/Time	
System	
Display	
Manage	
Information	

6 Press **•** *twice* to advance to the **Manage** option.

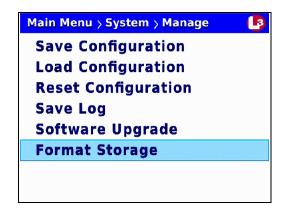


Main Menu > System	B
Date/Time	
System	
Display	
Manage	
Information	

7 Press **R** to select the **Manage** option. The Manage screen displays.



8 Press 🕕 to advance to the Format Storage option.



**9** Press **R** to select the **Format Storage** option. The system begins formatting the SD card. While this process takes place, a status message will display on-screen.





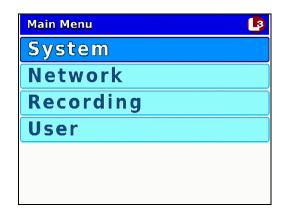
Once the red Formatting... message disappears, the format is complete.

**10** Press **(M)** *three times* to exit this option.

# **Viewing Your Flashback3 ID**

This section describes how to view your Flashback3 ID. This is a unique identification code for your DVR, similar to a serial number.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the I button until the I light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.



**3** If **System** is highlighted, proceed to the next step.

– OR –

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.



Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **()** to advance to the **Information** option.

Main Menu > System	13
Date/Time	
System	
Display	
Manage	
Information	

6 Press **R** to select the **Information** option. The Information screen displays.

Main Menu > System > Information		
Firmware	3.1	
UNIT ID	0000050103	
LAN	00:17:EB:73:23:B0	
WIFI	00:80:48:79:98:54	
ΑΡ	00:00:00:00:00:00	
Fix AP	00:00:00:00:00:00	

The Flashback3 ID displays in the UNIT ID field.

**7** Press **(()** *three times* to exit this option.



# **Viewing Media Access Control Addresses**

This section describes how to view the DVR's Media Access Control (MAC) Addresses for your LAN, WiFi, and AP (Access Point) connections. These are viewonly fields used for reporting purposes only.

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the 100 button until the 100 light turns *off*.)
- **2** Press **(M)**. The Main Menu displays.

Main Menu	<b>B</b>
System	
Network	
Recording	
User	

**3** If **System** is highlighted, proceed to the next step.

- OR -

If **System** is *not* highlighted, press the **D** or **D** button to advance to that option.

4 Press **R** to select the **System** option. The System menu displays.

Main Menu > System	B
Date/Time	
System	
Display	
Manage	
Information	

**5** Press **()** to advance to the **Information** option.



Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**6** Press **R** to select the **Information** option. The Information screen displays.

Main Menu > System > Information				
Firmware	3.1.2			
UNIT ID	0000050103			
LAN	00:17:EB:73:23:B0			
WIFI	00:80:48:79:98:54			
АР	00:00:00:00:00:00			
Fix AP	00:00:00:00:00:00			

The Media Control Addresses (MACs) are described below.

IP Address	Description
LAN	The media access control address (MAC) for the Ethernet adapter located at the rear of your DVR. <i>View-only field</i> .
WIFI	The media access control address (MAC) for your DVR's internal wireless card. <i>View-only field</i> .
AP	The media access control address (MAC) of the Access Point that the DVR is connected to. If the DVR is not connected to an Access Point, the value of this field will be all zeros. <i>View-only field</i> .
Fix AP	This field is not currently used.

**7** Press **(M)** *three times* to exit this option.



# **Changing the Flashback Monitor Settings**

This section describes how to change the various monitor settings that affect the quality of your Flashback monitor display. Please note that the monitor settings affect the monitor display only, *not* the quality of the actual video files.

For specific instructions, see:

- □ Adjusting the Monitor Contrast Setting, below
- □ Adjusting the Monitor Brightness Setting, page 229
- □ Adjusting the Monitor Hue Setting, page 229
- □ Adjusting the Monitor Saturation Setting, page 230
- □ Adjusting the Monitor Sharpness Setting, page 231
- □ Adjusting the Monitor Halftone Setting, page 232

# Adjusting the Monitor Contrast Setting

This section describes how to adjust the contrast setting for your Flashback monitor. Levels range from 0 - 100. You can adjust this setting up or down in increments of five (i.e., 5, 10, 15, etc.).

Once you change the contrast level, it will remain at that setting until you or another user changes it again.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Contrast bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press 🛞 + 💷 simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.



**2** Use the **()** button to *increase* this setting in increments of five.

– OR –

Use the **(D)** button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.



# Adjusting the Monitor Brightness Setting

The easiest way to adjust brightness is to use the 🐼 or 😭 buttons on your Flashback monitor. Alternatively, you can access the Brightness bar while in Monitor Setup Mode, as described below. This procedure is typically used when you are interested in knowing the numeric value of your brightness setting.

Once you change the brightness level, it will remain at that setting until you or another user changes it again.

Brightness levels range from 0 - 100. You can adjust this setting up or down in increments of five (i.e., 5, 10, 15, etc.). System default is **50**.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Brightness bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press 🛞 + 💷 simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.



**2** Press 🛞 to advance to the Brightness bar.



**3** Use the **(D)** button to *increase* this setting in increments of five.

– OR –

Use the D button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.

## Adjusting the Monitor Hue Setting

This section describes how to adjust the hue setting for your Flashback monitor. Levels range from 0 - 100. You can adjust this setting up or down in increments of five (i.e., 5, 10, 15, etc.).

Once you change the hue level, it will remain at that setting until you or another user changes it again.



Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Hue bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press (\*) + (10) simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.

Contrast	50

**2** Press 🛞 *twice* to advance to the Hue bar.



**3** Use the **()** button to *increase* this setting in increments of five.

– OR –

Use the D button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.

# Adjusting the Monitor Saturation Setting

This section describes how to adjust the saturation setting for your Flashback monitor. Levels range from 0 - 100. You can adjust this setting up or down in increments of five (i.e., 5, 10, 15, etc.).

Once you change the saturation level, it will remain at that setting until you or another user changes it again.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Saturation bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press 🛞 + 💷 simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.





2 Press 🛞 *three times* to advance to the Saturation bar.



**3** Use the **()** button to *increase* this setting in increments of five.

– OR –

Use the D button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.

## Adjusting the Monitor Sharpness Setting

This section describes how to adjust the sharpness setting for your Flashback monitor. Levels range from 0 - 100. You can adjust this setting up or down in increments of five (i.e., 5, 10, 15, etc.).

Once you change the sharpness level, it will remain at that setting until you or another user changes it again.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Sharpness bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press 🛞 + 💷 simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.



**2** Press four times to advance to the Sharpness bar.



**3** Use the **()** button to *increase* this setting in increments of five.

- OR -

Use the D button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.



# Adjusting the Monitor Halftone Setting

This section describes how to adjust the halftone setting for your Flashback monitor. Levels range from 0 - 100.

Once you change the halftone level, it will remain at that setting until you or another user changes it again.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the Halftone bar. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press 🛞 + 💷 simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.



**2** Press *five times* to advance to the orange Halftone bar.



**3** Use the **(D)** button to *increase* this setting in increments of five.

-OR -

Use the D button to *decrease* this setting in increments of five.

After several seconds of inactivity, the system will automatically exit Monitor Setup Mode.

#### Viewing the Monitor Version Number & Product ID

This section describes how to view the Flashback monitor's version number and product ID. Your L-3 Mobile-Vision Technical Support Representative may request this number when troubleshooting monitor problems.

Before you change this setting, it's recommended that you turn the GPS monitor display *off*, as it will make it difficult for you to see the version and product numbers. For instructions, see "Turning the 'GPS' Display On/Off" on page 132.

1 Press (\*\*\*) + @ simultaneously to enter Monitor Setup Mode. The yellow Contrast bar displays at the bottom of your monitor.





**2** Press Six *times* to advance to the version and product numbers.

#### VERSION: v81114b PRODUCT: BMG3540

Quickly jot the displayed numbers down. After several seconds of inactivity, the system will automatically exit Monitor Setup Mode. If the numbers disappear before you've had a chance to write them down, repeat steps 1 and 2.

## **Upgrading from Flashback2 to Flashback3**

The Flashback3 was designed to be fully backward compatible with the Flashback2. To switch out a Flashback2 for a Flashback3, perform the following procedure. If your agency's wireless LAN is *not* configured for DHCP, you will need the *Can Reset DVR* permission to perform this task. For instructions, see "Assigning Permissions to a User" in chapter 8 of the *DEP Administrator's Guide*.

1 If the Flashback2 is installed in an *Interview Room*, proceed to the next step. - OR -

If the Flashback2 is installed in a *vehicle*, power on that vehicle.

2 Insert a USB memory stick in the Flashback2's USB port.



**3** Make sure the door to the Flashback2 is open and Auto mode is *off*. (If necessary, press the *work*) button until the *work* light turns *off*.)



4 Press 🔞. The Main Menu displays.

Date/Time
Record Setup
Audio Setup
Radar Setup
Input Setup
Wireless Setup
Ethernet Setup
USB Setup
Security Setup
System Setup
Misc. Setup
Viewer Setup

**5** Press the **>** or **<** button until **Misc. Setup** is highlighted.

Date/Time
Record Setup
Audio Setup
Radar Setup
Input Setup
Wireless Setup
Ethernet Setup
USB Setup
Security Setup
System Setup
Misc. Setup
Viewer Setup
aleaael gerah

6 Press **R**. The Misc. Setup menu displays.

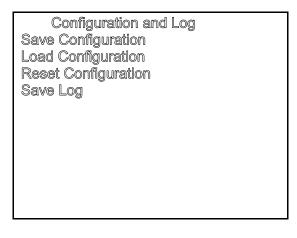
	Misc. Setup
Ο	Officer Title
	Lieutenant
	Officer name
	Anderson
	Unit Name unit 146
	Firmware 2.1.3
	Firmware Upgrade
	Configuration and Log
	Format Storage
	Xfer to External CF



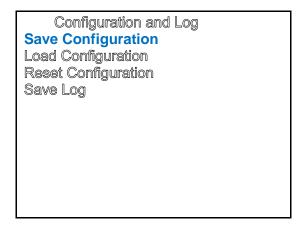
7 Use the 🔇 or Ď button to advance to the **Configuration and Log** option.

Misc. Setup	
Officer Title	
Lieutenant	
Officer name	
Anderson	
Unit Name unit 146	
Firmware 2.1.4	
Firmware Upgrade	
Configuration and Log	
Format Storage	
Xfer to External CF	

**8** Press **(R)**. The Configuration and Log screen displays.

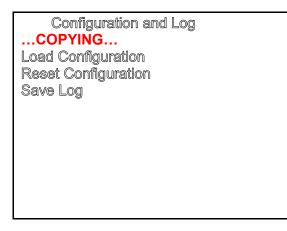


**9** Use the **G** or **D** button to highlight the **Save Configuration** option.





**10** Press **R**. The system copies the Flashback2's configuration file to the USB drive. While this process takes place, a status message will display on-screen.



Once the **COPYING...** message disappears, the transfer is complete.



- **11** Remove the USB stick from the Flashback2.
- **12** Power down the Flashback2 by moving the red power switch into the *down* (**OFF**) position.
- **13** Fully disconnect all the wires and cables on the back of the Flashback2, then remove the unit.
- If your agency's wireless LAN is configured for DHCP, skip to step 25.
   OR –

If your agency's wireless LAN is not configured for DHCP, proceed to the next step.

15 If you are installing the Flashback3 in an *Interview Room*, skip to step 17.

-OR -

If you are installing the Flashback3 in a *vehicle*, proceed to the next step.

- **16** If your vehicle is not within transmission distance, move it to within 300 feet of an access point.
- 17 Login to the Flashback server application as an *administrator* who has the *Can Reset DVR* permission. If you're not sure if you have this permission, see "Assigning Permissions to a User" in chapter 8 of the *DEP Administrator's Guide*.



communications Mobile-Vision, Inc.				Officer Zalewski is logged in. Lo	ogout
▼ Home Menu	Message Board				
Home Search Video	My Messages	O All Mes	sages		
Manage Cases			Inbox Messages		
Media Reader	Date	State	Message Text	Acti	ions
User Help User Preferences	03/20/2014 14:09	Queued	Please restore Case 'Riot at MHS' to an online status.	5 6	×
Administration	03/13/2014 14:00	Completed	Notify Support, there was an unexpected error in purging.	>	ĸ
System Setup System Status			Sent Messages		
Assign Videos	Date	State	Message Text	Acti	ions
Manage DVRs Manage Users	03/20/2014 14:09	Queued	Please restore Case 'Riot at MHS' to an online status.	€ 6	<b>x</b> •

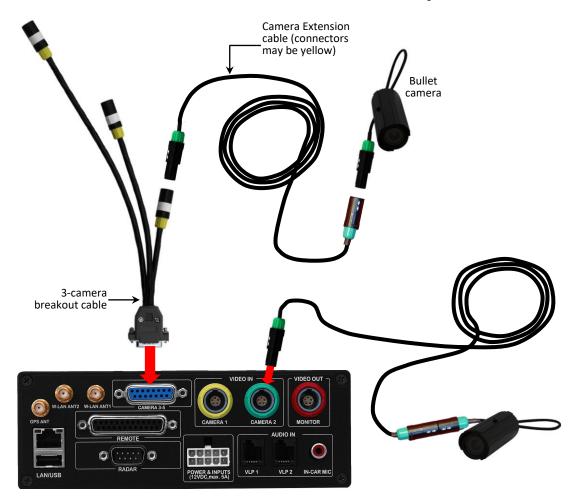
**18** Go to Administration and click Manage DVRs. The Manage DVRs page displays.

Communications Mobile-Vision, Inc.			MANA	AGE D	VRs	Officer Zal	ewski is logge	ed in. Logout
▼ Home Menu	DVRs DVR Groups							
Home Search Video				DVRs		and the second		
Search Video Manage Cases		12 22	Page 1	of 2 (18 total rec	ords)	>		
Media Reader	DVR Name 🛦	Last Comm IP	DVRID	Status	Туре	Group	Version	Config Synch
User Help				Enabled V				
<ul> <li>User Preferences</li> </ul>	*1 101@08:04:19			Enabled	Vehicle			
Administration	*1 dvr10@13:01:35		0000000010	Enabled	Vehicle			Pending
System Setup	*1 DVR74@17:04:37	-	000000077	Enabled	Vehicle			Pending
System Status	*1 No 2@13:01:37		000000047	Enabled	Vehicle			Pending
Assign Videos	*1 No Number@09:01:34		0000023069	Enabled	Vehicle			Pending
Manage DVRs	84		000000877	Enabled	Vehicle			Pending
Manage Users	Demo1		000000003	Enabled	Vehicle			Pending
Action	DNFB2I		0000016003	Enabled	Vehicle			Pending
Create	GPS		0000000027	Enabled	Vehicle			Pending
Edit Export Config	IR		0000000021	Enabled	Vehicle			Pending
Import Units	I -3 Test Unit	_	0000000194	Enabled	Vehicle			Pending
Export Units	Lance's DVR3	166 20 101 83		Enabled	Interview Room			Felluling
Reset								
Delete	Place	-	0000004543	Enabled	Vehicle			Pending
	QAD1	-		Enabled	Vehicle			

- **19** Locate the DVR record for the Flashback2 unit you are replacing. If you have a large number of records to scan through, use the navigation icons *or* search fields at the top of the page to locate the record.
- **20** Click on the Flashback2 record to highlight it.
- 21 Go to the Action column and click **Reset**. A confirmation message displays.
- 22 Click Yes.
- **23** Wait 10 minutes, then proceed to the next step.



- 24 Return to the vehicle or Interview Room.
- 25 Insert the new Flashback3 unit and re-connect all wires and cables. If necessary, refer to the diagram on page 4. If you will be using one or more Bullet cameras, use the 3-Part Breakout Cable and Camera Extension Cable to connect them to the Flashback3's CAMERA 3-5 port. Alternately, you can use the Camera Extension Cable to connect one of the Bullet cameras to the CAMERA 2 port.





**26** Make sure the door to the Flashback3 is open and the red power switch is in the **AUTO** (ON) position. If you are in a vehicle, turn the ignition on.

Next, copy the Flashback2 configuration file from the USB drive to your Flashback3, as described in steps 27 - 34.

**27** Take the USB drive that contains the Flashback2's *config.xml* file and insert it into the USB port on the front of the Flashback3 DVR.





- **28** Press the above button *twice* to turn Auto mode *off*.
- **29** Press **(M)**. The Main Menu displays.

Main Menu	8
System	
Network	
Recording	
User	

**30** Press **R** to select the **System** option. The System menu displays.

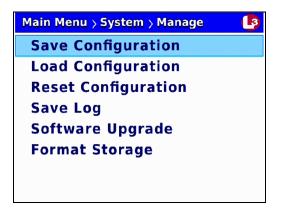
Main Menu > System	<b>B</b>
Date/Time	
System	
Display	
Manage	
Information	

**31** Press **①** *twice* to advance to the **Manage** option.

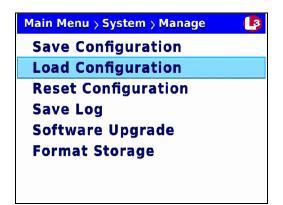


Main Menu > System	- 🕒
Date/Time	
System	
Display	
Manage	
Information	

**32** Press **R** to select the **Manage** option. The Manage screen displays.

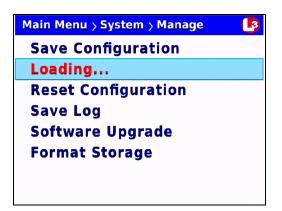


**33** Press **1** to advance to the **Load Configuration** option.



**34** Press **R** to select the **Load Configuration** option. The system copies the config.xml file from the USB drive to your DVR. While this process takes place, a status message will display on-screen.





Once the **Loading...** message disappears, the transfer is complete.

- **35** Press **(M)** *three times* to exit this option.
- **36** Randomly check a few of your menu settings to verify that your Flashback2 settings have successfully transferred to the Flashback3.



# DVR Specifications

Flashback3 Technical Specifications		
Recorder Type	Digital, mobile application specific.	
Recording Media	Secure Digital (SD) card with maximum 64 gigabyte storage capability.	
Compression	System supports video compression using the MPEG 4 part 10 standard at up to 2.5 megabits per second for the first video stream and up to 1.5 megabits per second for the second stream.	
Video Inputs	<ul> <li>Camera 1: 2 – 30 frames-per-second</li> <li>Camera 2: 2 – 30 frames-per-second</li> <li>Camera(s) 3 – 5: Same frames-per-second as Camera 2</li> </ul>	
Audio Inputs	<ul> <li>VLP1</li> <li>VLP2 (optional)</li> <li>Wired Mic (Optional – backseat); mic level input</li> </ul>	
External Inputs	+5vdc - +15vdc: • Emergency Lights • Siren • Brakes • Ignition • Auxiliary 1 • Auxiliary 2	
AV Outputs	<ul><li>NTSC Video</li><li>Line Level Audio</li></ul>	
Data Communication	<ul> <li>Wireless 802.11(a) (b) (g) (a/n) (g/n)</li> <li>RS232C</li> <li>10/100/1000 Ethernet</li> <li>USB 2.0 Interface</li> </ul>	
Record Trigger Types	<ul> <li>Manual. Record triggered by the user via the <i>Record</i> buttons or VLP2 mic</li> <li>Event. Record triggered automatically by activating the emergency lights, siren, or auxiliary inputs, or by exceeding the GPS speed threshold</li> </ul>	
Recording Modes	<ul> <li>Regular Record. A recording initiated by one of the <i>Record Trigger Types</i> described above.</li> <li>Background Record. A continuous recording that occurs in the background at a low frame rate. Only occurs when Regular Record is <i>not</i> in process.</li> </ul>	
Resolution	320x240 to 720x480	



Flashback3 Technical Specifications (cont'd)		
Frame Rate set to 'Normal Record'	User selects up to 30 frames-per-second	
Frame Rate set to 'Background Record'	User selects 2 or 5 frames-per-second	
Recording Duration	8 – 60 hours. Recording capacity depends upon resolution, frame rate, and SD card size.	
Power requirements	9 – 18 VDC @ 5 Amp Max; system includes under- power and over-power protection	
Standby Current	19mA when unit is powered-down (ignition off)	
Operating Temperature	-18° C to +75° C	
DVR Connections	<ul> <li>+12VDC Power Input and ground. Battery and vehicle ground, respectively</li> <li>Ignition. Vehicle ignition status</li> <li>Camera Connections. Camera 1, Camera 2, Cameras 3-5</li> <li>Video Output. Flashback monitor</li> <li>VLP2s. VLP1 and VLP2</li> <li>Wired In-Car Microphone. External mic DVR rear panel connector</li> <li>Audio Output</li> <li>Radar/Aux. Interface (RS232)</li> <li>GPS/2x Wireless antenna</li> <li>V 2.0 USBs. DVR Front Panel port and DVR rear panel port</li> <li>Ethernet 10/100</li> <li>Inputs (i.e., Event Trigger Signals). Light bar, siren, Aux1, and Aux2</li> </ul>	
DVR Dimensions	6.9"(w) x 6.1"(d) x 2.4"(h)	



#### Glossary

# **Access Point**

A device used to transmit videos from your in-car DVR to your *server*. The access point is connected to a wireless network antenna mounted on the outside of the building that houses your server.

Some precincts have more than one access point to accommodate multiple vehicles that park in different areas outside the building. See also *Transmission*.

## **Digital Evidence Collection System**

An L-3 Mobile-Vision product that is used by law enforcement personnel to collect digital evidence. It includes the following hardware and software components:

- □ Flashback DVRs
- □ Access point(s)
- $\Box \quad \text{Storage server(s)}$
- □ DES software
- $\Box \quad \text{Backup PC(s)}$
- □ Robotic DVD burner
- □ RAID storage device (optional).

#### **DVR Login Key**

A file on a USB drive that contains your user information. You insert this flash drive in your Flashback USB port at the beginning of each shift. This identifies you as the owner of that shift's videos.

## **Record Trigger**

The event that causes an in-car DVR to automatically start recording without any action on the officer's part.

#### **SD Card**

The temporary storage device that stores Flashback3 videos until they can be transmitted to the agency *server*.

#### Server

The network computer that hosts the DES application and stores video evidence and other related data. Some larger agencies have more than one server.

## System Implementation Specialist (SIS)

An L-3 Mobile-Vision representative who assists with the installation of the Flashback Digital Evidence Collection system, including hardware (Flashback3) and software (DES) components.



## Transmission

The process of transferring video files from your in-car DVR to the *server* via an *access point*. This transmission can occur either *automatically* (typical) or *manually*.

- □ Automatic transmission. Whenever your vehicle comes within approximately 300 feet of an access point, it triggers an automatic transmission. During this transmission, all videos that are currently stored on your DVR will wirelessly transfer to the server via an access point.
- Manual transmission. Your DVR holds a temporary storage device called an SD card. This card is used to temporarily store your videos until they can be transferred to the server. If necessary, you can use this card to manually transfer videos to your PC, assuming you have the proper permissions. You would typically use this procedure if you can't wait for an automatic file transfer to occur, or a problem has occurred that interfered with the wireless file transfer. For more information, see "Manually Uploading New Videos" in chapter 2 of the DEP User's Guide or DEP Administrator's Guide.

## **Trace Point**



A marker that you can add to a video while it's recording. This is accomplished by pressing the **T** button on the Flashback menu or DVR (pictured left). By marking a video with a Trace Point, it allows you to quickly advance to an important segment in a video during playback.

# User Metadata (UMD)

Custom data fields that you can link to a video. Your System Administrator defines these fields. Their purpose is to allow you to annotate your videos with custom data, such as a citation number or subject description. If you have a mobile data computer with the UMD Editor installed on it, you have the option of attaching UMD to a video immediately after it is finished recording. Otherwise, you can attach UMD back at the precinct when you connect to the *server*.

# **Contact Information**

Phone:	800-336-8475; Fax: 973-316-9509
Email:	service.MVI@L-3Com.com
Address:	L-3 Mobile-Vision 90 Fanny Road
	Boonton, NJ 07005



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