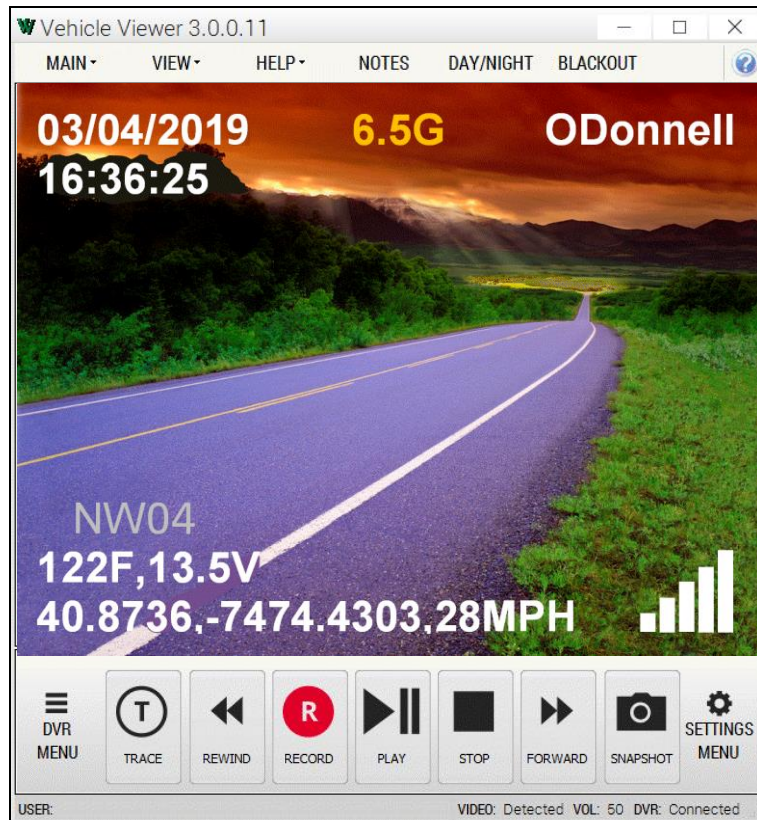


# Vehicle Viewer



## User's Guide

version 3.0.0.11



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## Introduction

Vehicle Viewer is a software application designed to work in conjunction with the Flashback digital in-car video system. It allows you to view videos and access the Flashback controls from your mobile data computer. This provides you with a much larger display view than that of the Flashback monitor.



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## Requirements

The mobile data computer on which you install Vehicle Viewer must meet the minimum requirements listed below. However, wherever possible, we recommend that you upgrade to the *recommended* requirements. The latter will provide you with optimal speed and processing power.

### Minimum System Requirements

- ☐ Hardware—Intel i3 8190U, 4 GB RAM
- ☐ Operating System—Windows 7 Professional SP1

### Recommended System Requirements

- ☐ Hardware—Intel i5 2310M processor, 4 GB RAM
- ☐ Operating System—Windows 10 Professional

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## Installing & Configuring Vehicle Viewer




This section describes how to install the Vehicle Viewer application on your mobile data computer and configure it to work with your mobile data computer.

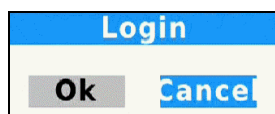
Before you proceed with the installation, review the “Requirements” section on the previous page to make sure your mobile data computer meets the minimum hardware/software requirements.



### Install Vehicle Viewer on Your PC

- 1 Login to your PC as an administrator.
- 2 Insert the USB stick that contains the Vehicle Viewer software in one of your PC's USB ports.
- 3 Navigate to the Vehicle Viewer folder on the USB drive.
- 4 Double-click on the Vehicle Viewer application file, which ends in **.exe**.
- 5 Follow the system prompts to install the software. Once you click the **Finish** button, the installation is complete.
- 6 Restart your PC.
- 7 Check to make sure your PC is connected to the DVR via an Ethernet cable.

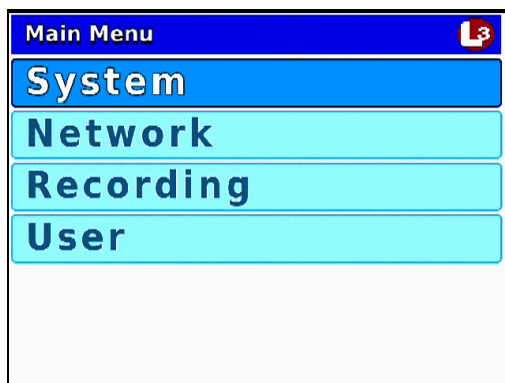
### Display the Flashback's Ethernet Screen

- 1 Make sure the door to your DVR is open and Auto mode is *off*. (If necessary, press the  button until the  light turns *off*.)
- 2 If your agency requires that you use a USB Login Key to login to the DVR, proceed to the next step. Otherwise skip to step 8.
- 3 Place your USB Login Key into the Flashback's USB port.
- 4 Press . The Login screen displays.

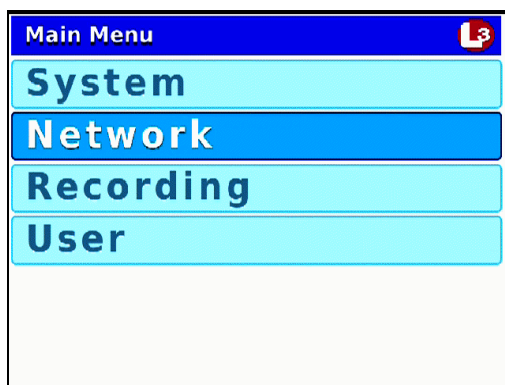


- 5 Press .
- 6 Press .
- 7 Remove the USB memory stick.

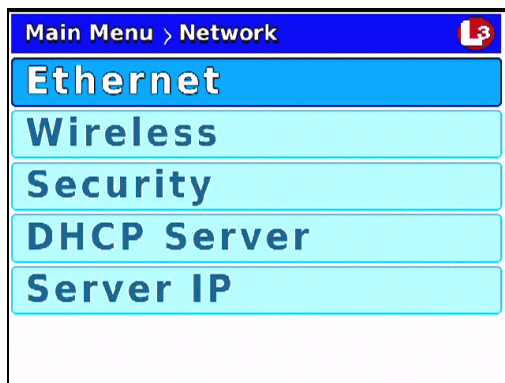
- 8 Press **M**. The Main Menu displays.



- 9 Press the **▶** or **◀** button until **Network** is highlighted.



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



- 11 Press **R** to select the **Ethernet** option. The Ethernet screen displays.

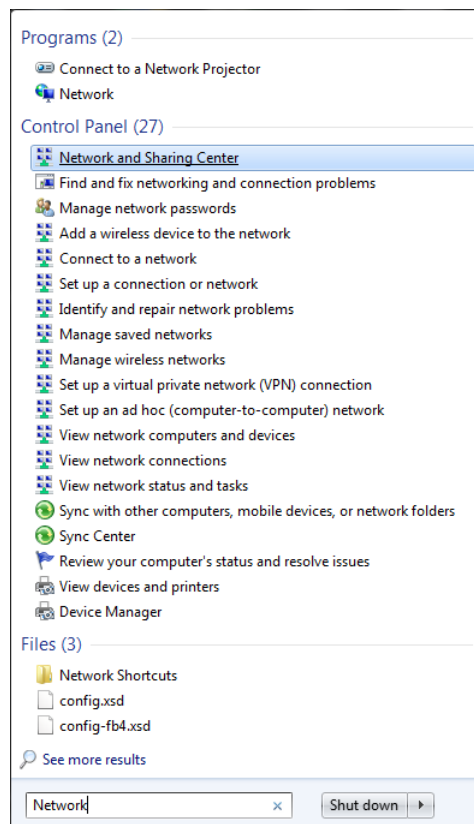
*(Continued)*

Main Menu • Network • Ethernet				
<b>IP Address</b>	10.	0.	0.	2
<b>Netmask</b>	255.	0.	0.	0
<b>Gateway</b>	0.	0.	0.	0
<b>DHCP</b>	OFF			
<b>Default Gateway</b>	Ethernet			

Leave this screen open for now, as you will be comparing the values of the *IP Address* and *Netmask* fields to your PC's Ethernet settings in a minute.

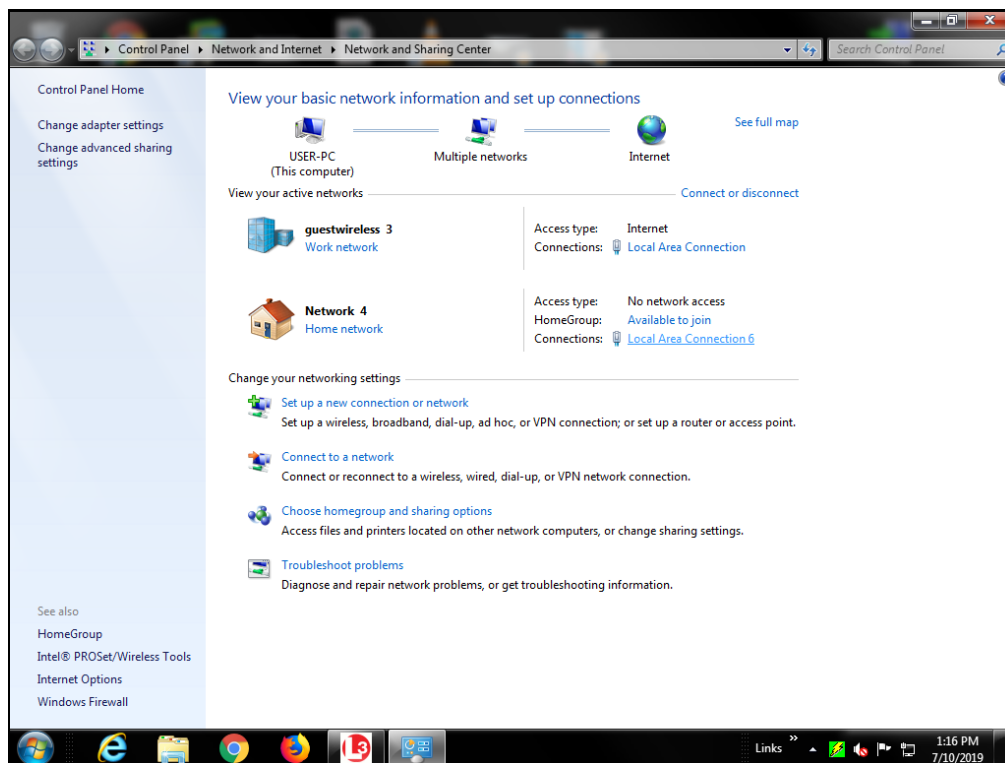
## Display the PC's Ethernet Settings

- 1 Proceed to the Windows Search field, then enter **Network**. A list of Network options displays.



- 2 Select **Network and Sharing Center**.

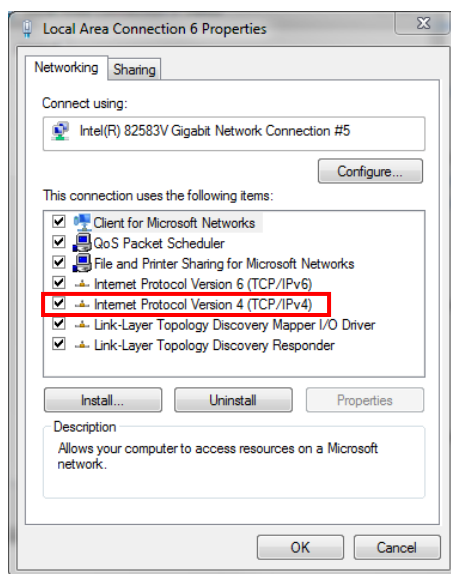




- 3 Click on your PC's Ethernet network. (See **HINT** below.)



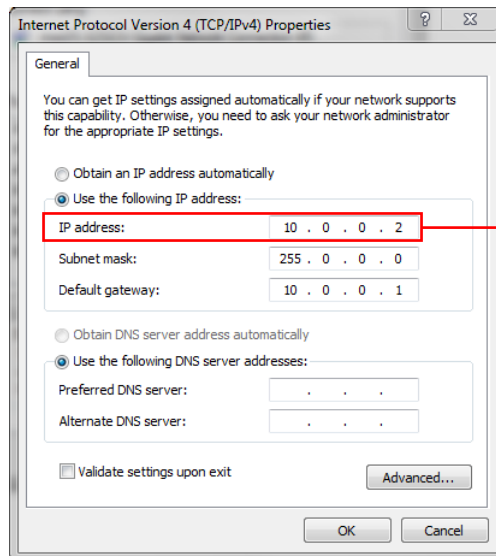
**HINT:** If you're not sure which of the displayed networks to select, temporarily disconnect your PC's Ethernet cable. The network that disappears from view is the one you want (it will reappear after you plug the Ethernet cable back in).



- 4 Double-click on **Internet Protocol Version 4 (TCP/IPv4)**.

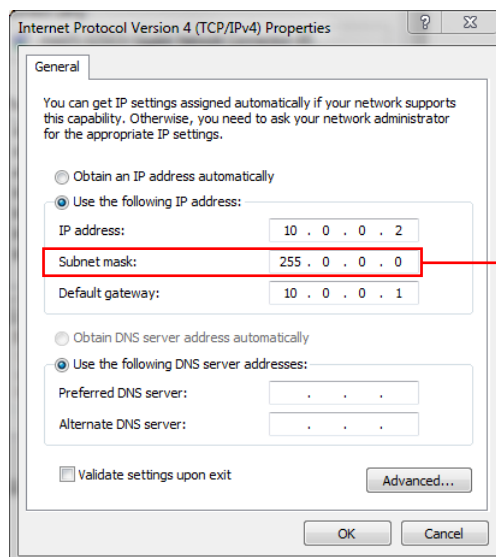
- 5 If necessary, change the PC's Ethernet *IP address* to one that is on the same subnet mask as the DVR. The PC and the DVR should each have a unique address, though.

This IP address should be different than the DVR's IP, but it must be on the same subnet mask as the DVR's IP



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			

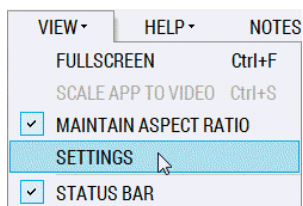
- 6 Change the PC's *Subnet Mask* field so that it matches the DVR's *Netmask* value, as in the example below.



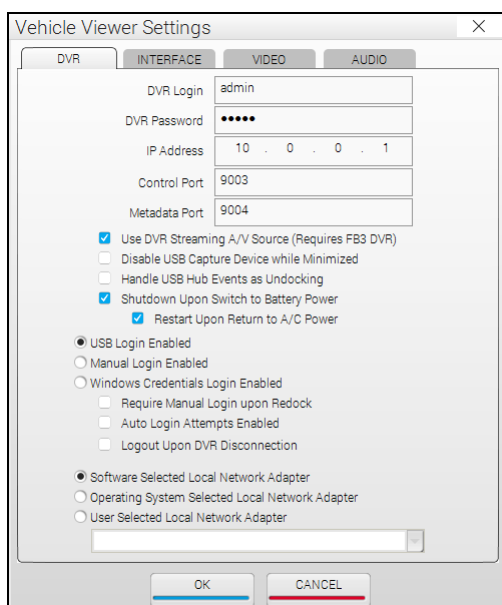
Main Menu•Network•Ethernet				
IP Address	10.	0.	0.	1
Netmask	255.	0.	0.	0
Gateway	0.	0.	0.	0
DHCP	OFF			
Default Gateway	Ethernet			

## Change Vehicle Viewer's IP Address

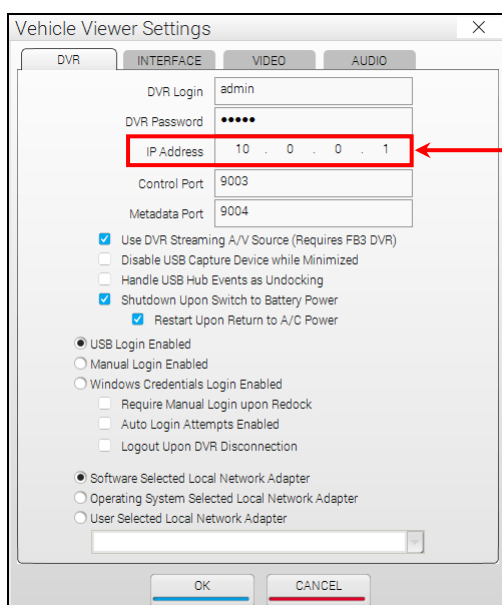
- 1 Double-click on the Vehicle Viewer icon on your desktop to open the application.
- 2 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.




The Vehicle Viewer Settings screen displays.



3 Change the *IP Address* field in Vehicle Viewer to match the DVR's *IP Address*.



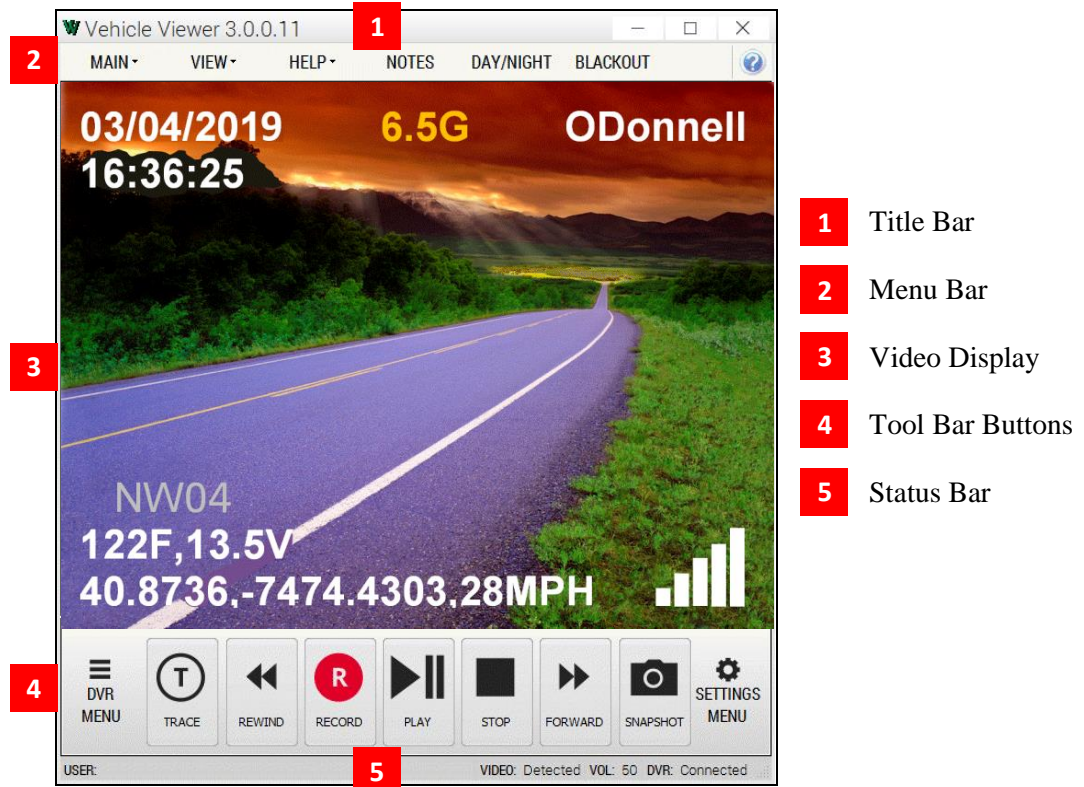
Main Menu • Network • Ethernet 				
<b>IP Address</b>	<b>10.</b>	<b>0.</b>	<b>0.</b>	<b>1</b>
<b>Netmask</b>	<b>255.</b>	<b>0.</b>	<b>0.</b>	<b>0</b>
<b>Gateway</b>	<b>0.</b>	<b>0.</b>	<b>0.</b>	<b>0</b>
<b>DHCP</b>	<b>OFF</b>			
<b>Default Gateway</b>	<b>Wireless</b>			

4 Click **OK**.

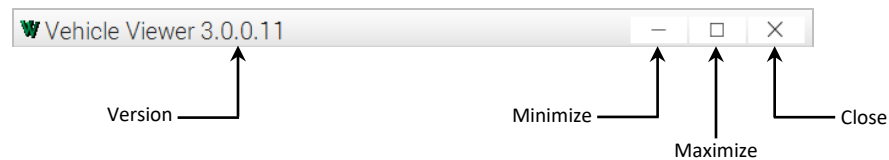
- 5 Reboot your mobile data computer.

## User Interface

### Main Window

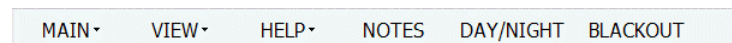


### Title Bar



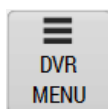
The Title Bar contains the Vehicle Viewer version number and the *minimize*, *maximize*, and *close* buttons.

### Menu Bar

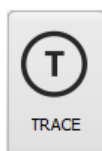
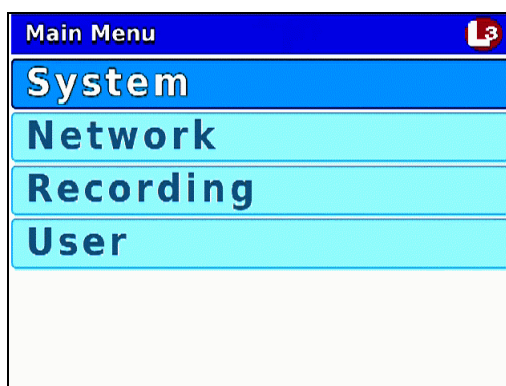


The Menu Bar contains the **MAIN**, **VIEW**, and **HELP** menus, as well as the **NOTES**, **DAY/NIGHT**, and **BLACKOUT** options.

## Toolbar Buttons

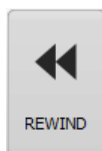


Display the Flashback Main Menu when the DVR door is open.



While in *Record* mode: Mark a position in a recording, referred to as a *Trace Point*.

While in *Play* mode: 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.

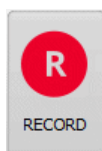


While in *Idle* mode: Toggle monitor display between Channel 1 (Nite-Watch camera) and Channel 2 (Backseat and Bullet cameras).

While in *Play* mode: Rewind slowly (press once) or quickly (press twice)

While *playback* video is paused: Rewind one frame at a time

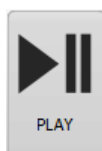
While in *Menu* mode on a field value: Display previous field value *or* lower the numeric value of a field segment (while in a multi-part numeric field, such as a *date*).



While in *Idle* mode: Begin recording

While in *Record* mode: Toggle the in-car microphone off/on

While in *Menu* mode: Select the highlighted menu item or field

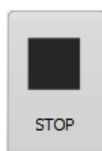


While in *Idle* mode: Display the *Playlist* directory

While in *Playlist* directory: Select highlighted video

While in *Play* mode: Toggle video *pause* function on/off (press and release button), *or* display the Select Source menu (press and **hold** button).

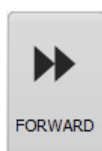
While in *Menu* mode: Move the cursor *down*



While in *Record* mode: Stop recording

While in *Play* mode: Stop video playback session

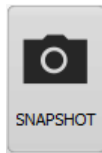
While in *Menu* mode: Move the cursor *up*



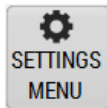
While in *Play* mode: Advance slowly (press once) or quickly (press twice)

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*).



Take a snapshot of the current video screen and save it to the location specified on the INTERFACE tab (see also “Changing the Snapshot Files Location” on page 19). If the specified snapshot location does not permit you to save files due to lack of operating system privileges, the snapshot will be saved to your desktop.



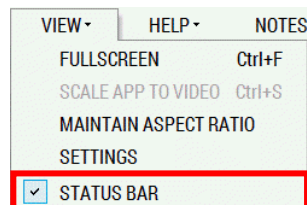
Display the controls for playback brightness and volume. **NOTE:** These controls *only* affect the *playback* brightness and volume; they do *not* affect the brightness/volume settings for the LCD display, DVR speaker, or recorded video file.

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## Status Bar

USER: VIDEO: Detected VOL: 50 DVR: Connected

The Status Bar displays at the bottom of the Vehicle Viewer window. To display or hide this bar, go to the top of the Main Window and select **VIEW→ STATUS BAR** from the menu bar.



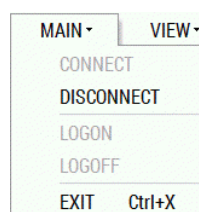
The components of the Status Bar are described below.

Status Bar	
Component	Description
USER	The User ID of the person who is logged into the DVR
VIDEO	The video detection status
VOL	The audio volume setting
DVR	The DVR connection status

## Menus

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### Main Menu



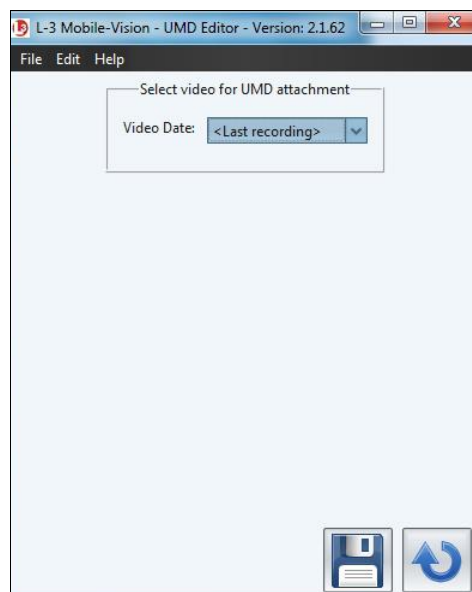
The Main Menu options are described below.

Main Menu Options	
Option	Description
CONNECT	Connect to the DVR
DISCONNECT	Disconnect from the DVR
LOGON	Manually login to the DVR
LOGOFF	Manually logoff of the DVR
EXIT	Exit Vehicle Viewer

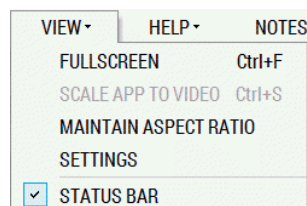
### Notes Option



The NOTES selection on the menu bar is used to open the Flashback UMD Editor, as pictured below. This utility is used to attach predefined user metadata (i.e., custom data fields) to a recorded video.



### View Menu



The View Menu options are described below.

View Menu Options	
Option	Description
FULLSCREEN	Display video in full screen view
SCALE APP TO VIDEO	Resize application to display video at unscaled dimensions
MAINTAIN ASPECT RATIO	Toggle the video display between <i>Stretched Mode</i> and <i>Video Aspect Ratio Maintained</i> mode
SETTINGS	View/edit the Application Settings form
STATUS BAR	Display or hide the status bar

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### Help Menu

HELP ▾	NOTES
HELP TOPICS	F1
ABOUT	Ctrl+A

The Help Menu options are described below.

Help Menu Options	
Option	Description
HELP TOPICS	Open the Online Help System (i.e., application integrated HTML Help).
ABOUT	Display the application version number and build date.



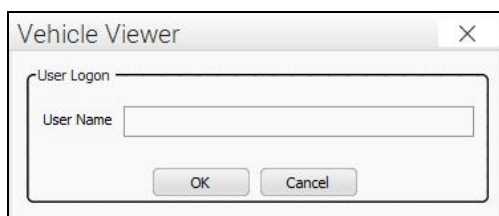
## Manually Logging into the DVR

Whenever possible, it's recommended that you login to the DVR using your USB Login Key. (For instructions, see "Logging into a DVR Using Your USB Login Key" in the *Flashback3 & FlashbackHD User's Guide*.) However, if you need to login to your DVR but have either lost, misplaced, or forgotten your USB login key, you can login in manually from within the Vehicle Viewer application, as described in this section.



**NOTE:** This option is only available if the *Manual Login Enabled* checkbox is selected on the DVR Settings menu.

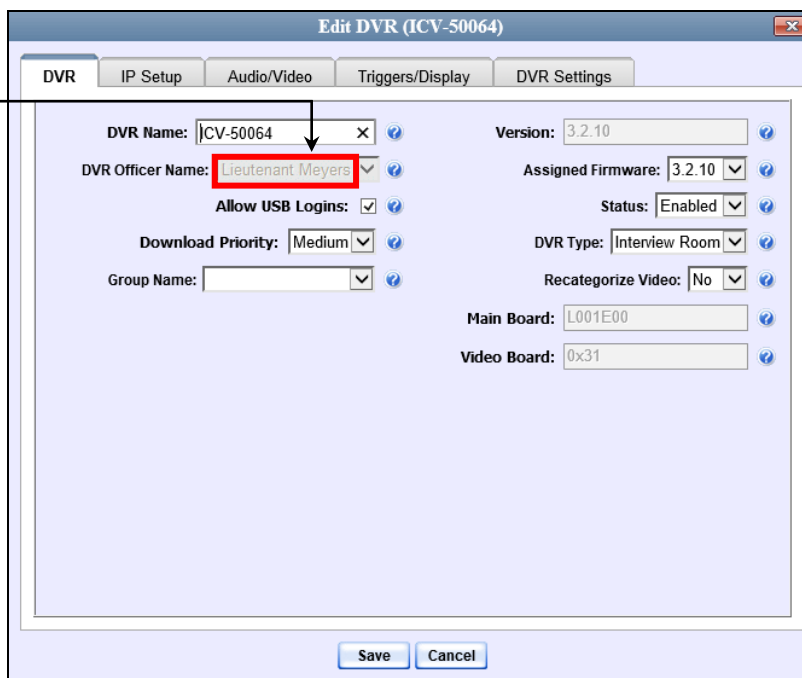
- 1 Go to the top of the Main Menu and select **MAIN→ LOGON** from the menu bar. The following popup displays.



The image shows a 'Vehicle Viewer' dialog box with a 'User Login' section. It contains a 'User Name' text field and 'OK' and 'Cancel' buttons at the bottom.

- 2 Enter your officer name in the *User Name* field. This is the same *Officer Name* that is saved in the DVR record on the DES application, as pictured below.

Enter this value in  
the *User Name*  
field above



The image shows the 'Edit DVR (ICV-50064)' settings window. The 'DVR' tab is selected. The 'DVR Officer Name' dropdown menu is highlighted with a red box and contains the text 'Lieutenant Meyers'. An arrow points from the text 'Enter this value in the User Name field above' to this dropdown menu. Other settings visible include 'DVR Name: ICV-50064', 'Version: 3.2.10', 'Assigned Firmware: 3.2.10', 'Status: Enabled', 'DVR Type: Interview Room', 'Main Board: L001E00', and 'Video Board: 0x31'. There are 'Save' and 'Cancel' buttons at the bottom.

(Continued)



**NOTE:** If the value you enter in the *User Name* field does not match the *Officer Name* field *exactly*, the system will not link your videos to you. Rather, it will link your videos to an auto-created **\*no name** user. If this occurs, you can reassign the videos later, as described in “Reassigning Multiple Videos to a Different Officer” in chapter 2 of the *DEP Administrator’s Guide*.

3 Click **OK**.

---

## Logging out of the DVR

If you logged in through the Vehicle Viewer menu, go to the top of the Main Window and select **MAIN→ LOGOFF** from the menu bar.

– OR –

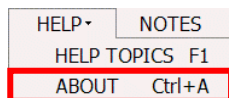
If you logged in using your USB Login Key (typical), click the following buttons in sequential order:



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## Displaying the Version Number

To determine what version of Vehicle Viewer you currently have installed, go to the top of the Main Window and select **HELP→ ABOUT** from the menu bar.



The About Vehicle Viewer popup displays.



To close this popup, click **OK**.

## Application Settings

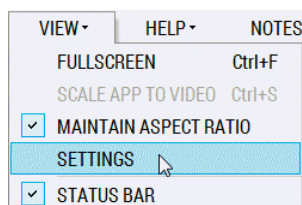
To change the Vehicle Viewer Settings, proceed to the appropriate section:

- ☐ Changing the DVR Settings, below
- ☐ Changing the User Interface Settings, page 19
- ☐ Changing the Video Settings, page 25
- ☐ Changing the Audio Settings, page 31.

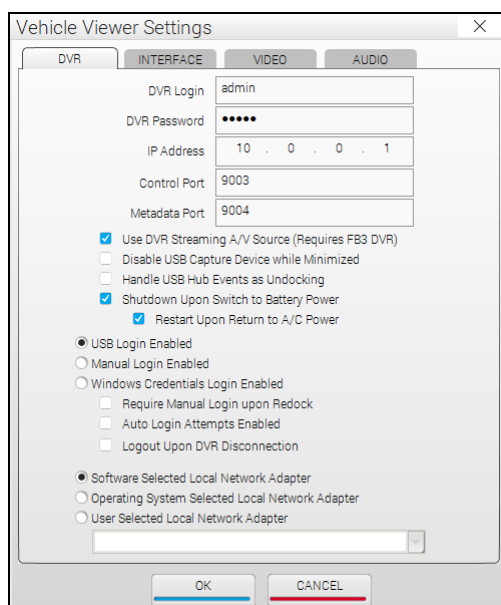
### Changing the DVR Settings

This section describes how to change the settings that enable Vehicle Viewer to communicate with the DVR.

- 1 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.

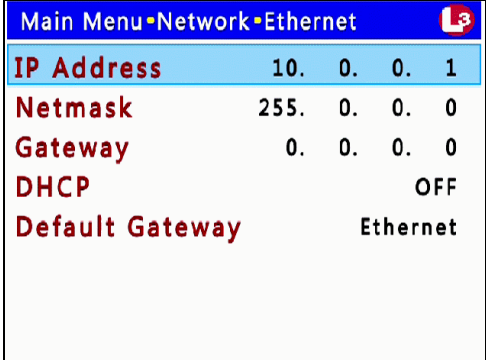


The Vehicle Viewer Settings screen displays.



The fields on this tab are described in the table on the next page.

*(Continued)*

DVR Tab	
Component	Description
DVR Login	The login for the connection between Vehicle Viewer and the DVR. Do not change this value unless instructed to do so by a Mobile-Vision Support professional.
DVR Password	The password for the <i>DVR Login</i> above. Do not change this value unless instructed to do so by a Mobile-Vision Support professional.
IP Address	<p>The IP address of the DVR that Vehicle Viewer is connected to. This setting should match the IP address specified in the DVR's Ethernet Setup interface.</p> <p>Typically, the IP address used by a DVR is unique, requiring this setting change to be made <b>before</b> Vehicle Viewer can connect to the associated DVR.</p> <p>The following image shows the DVR's Ethernet Setup interface, which you can access via the DVR MENU button (DVR door must be <i>open</i>).</p> 
Control Port	A setting for the network connection between Vehicle Viewer and the DVR. System default is <b>9003</b> . Do not change this value unless instructed to do so by a Mobile-Vision Support professional.
Metadata Port	A setting for the network connection between Vehicle Viewer and the DVR. System default is <b>9004</b> . Do not change this value unless instructed to do so by a Mobile-Vision Support professional.
Use DVR Streaming A/V Source (Requires Flashback3 or FlashbackHD DVR)	A setting that, when selected, allows you to stream video directly from your Flashback3 or FlashbackHD to Vehicle Viewer without having to use the diamond encoder device that is required with earlier versions of Flashback. Select this option if you have Flashback version 3.1 or higher.

DVR Tab (cont'd)	
Component	Description
Disable USB Capture Device while Minimized	<p>A setting that, when selected, disables the use of the USB capture device while the Vehicle Viewer application main window is minimized. This option is helpful in cases where a Vehicle Viewer laptop is docked in a docking station and the application remains running while the power to the docking station is cut.</p> <p>This option is only available when the <i>Use DVR Streaming A/V Source</i> option is deselected.</p>
Handle USB Hub Events as Undocking	A checkbox used to indicate whether or not Vehicle Viewer should automatically shut down in response to a USB hub disconnection event. Do not change this setting unless instructed to do so by your Mobile-Vision Support representative.
Shutdown Upon Switch to Battery Power	A checkbox used to indicate whether or not Vehicle Viewer should shut down whenever the DVR switches to battery power, such as when the vehicle mount that provides power to the docking station loses power.
Restart Upon Return to A/C Power	A checkbox used to indicate whether or not Vehicle Viewer should automatically restart when the DVR returns to A/C power after running on battery power for a period of time.
USB Login Enabled	A radio button used to indicate whether or not users must use a USB Login Key to log in and out of this DVR. If selected (default), users are required to use a USB Login Key to login/logout of the DVR.
Manual Login Enabled	A radio button used in conjunction with the <i>Require Manual Login upon Redock</i> checkbox to indicate whether or not users are required to login manually. If selected, you will be able to select the <i>Require Manual Login upon Redock</i> checkbox, which in turn will prompt the user to enter his name on the Login Dialog box whenever he redocks his mobile data computer.
Windows Credentials Login Enabled	A radio button used to indicate whether or not the system will automatically pass the mobile data computer's Windows user name to the DVR, eliminating the need for the user to login using a DVR Login Key or manual login. If selected, the system will automatically pass the user's Windows user name to the DVR.

(Continued)

DVR Tab (cont'd)	
Component	Description
Require Manual Login upon Redock	A checkbox used in conjunction with the <i>Manual Login Enabled</i> radio button. When selected, this checkbox will prompt the user to enter his name on the Login Dialog box whenever he redocks his mobile data computer.
Auto Login Attempts Enabled	A checkbox used to indicate whether or not Vehicle Viewer will continue login attempts even when the application is not connected to the DVR. When selected, Vehicle Viewer will continue login attempts when the application is disconnected from the DVR. By default, this option is selected.
Logout upon DVR Disconnection	A checkbox used to indicate whether or not a user will automatically be logged out of the DVR when Vehicle Viewer undocks, loses connectivity to the DVR, or shuts down.
Software Selected Local Network Adapter	<p>When this radio button is selected, it allows the algorithms in the Vehicle Viewer software to determine which network adapter to use based on the following information:</p> <ul style="list-style-type: none"><li>▪ Network adapter IP address</li><li>▪ DVR IP address</li><li>▪ Network masks</li><li>▪ Ability to ping the DVR.</li></ul> <p>The network adapter uses TCP connection binding to ensure that the connection to the DVR uses the software selected network adapter. By default, this option is selected.</p>
Operating System Selected Local Network Adapter	When this radio button is selected, the operating system will determine which network adapter to use for the DVR connection. This option is useful when third party software or hardware applications, such as Net-Motion, are used to dynamically route IP connections.
User Selected Local Network Adapter	When this radio button is selected, the user will select which network adapter to use for DVR connection by selecting an adapter from the list of available network adapters on the system.

- 2 Enter/select your changes in the appropriate fields.
- 3 Click **OK**.

## Changing the User Interface Settings

This section describes how to change the settings that relate to Vehicle Viewer's graphical user interface.

For specific instructions, see:

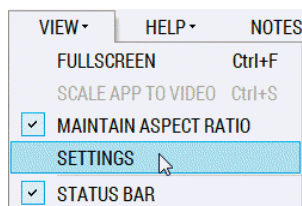
- ☐ Changing the Snapshot Files Location, below
- ☐ Changing the Application's Language, page 22
- ☐ Switching Between the Day & Night Skins, page 23
- ☐ Turning Blackout Mode On/Off, page 24
- ☐ Turning Fullscreen Mode On/Off, page 25
- ☐ Scaling the Application to Your Video, page 25.

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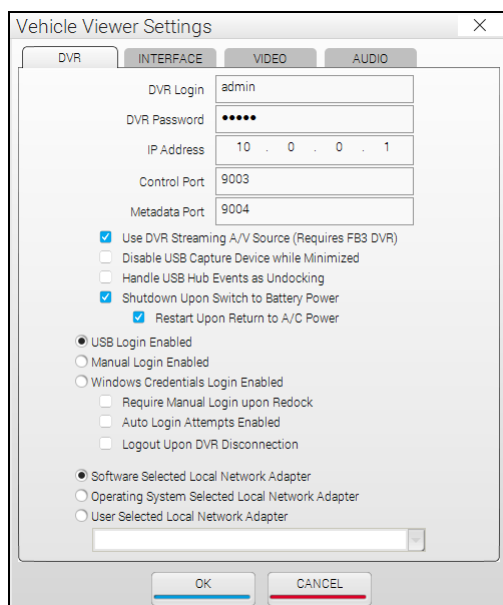
## Changing the Snapshot Files Location

This section describes how to change the disk drive location where you wish to save snapshots that are captured via the **SNAPSHOT** button.

- 1 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.

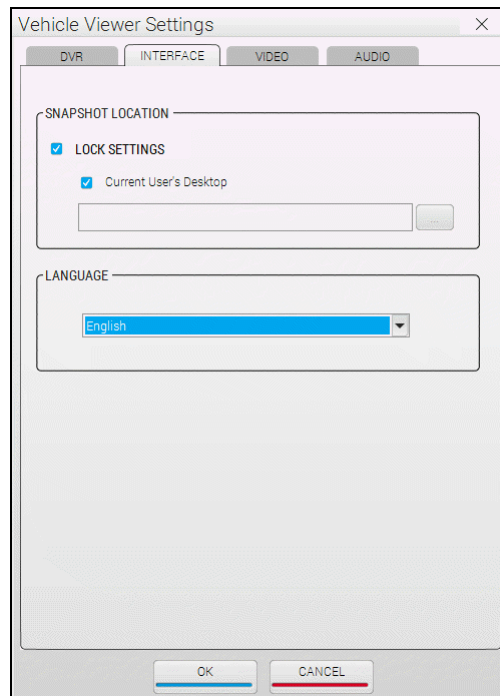


The Vehicle Viewer Settings screen displays.

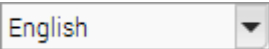


*(Continued)*

## 2 Click the **INTERFACE** tab.



The components on this tab are described in the following table.

INTERFACE Tab	
SNAPSHOT LOCATION	
Component	Description
LOCK SETTINGS	A checkbox used to indicate whether the settings on the SNAPSHOT LOCATION section of the INTERFACE tab are locked down to all users except the System Administrator. When this checkbox is <i>selected</i> , these settings can only be configured by a System Administrator. This forces all Vehicle Viewer users to use the same snapshot location. When this checkbox is <i>deselected</i> , these settings may be modified by any Vehicle Viewer user.
Current User's Desktop	A checkbox that, when selected, will cause the system to place all video snapshots in a folder on the current user's desktop.
LANGUAGE	
	A drop-down list used to select the language in which the Vehicle Viewer screen elements will display.



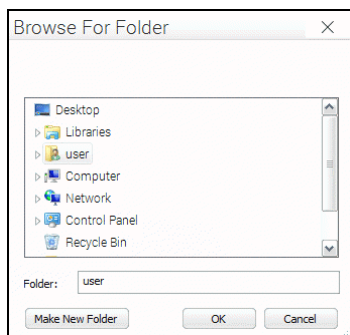
- 3 If the LOCK SETTINGS checkbox is currently selected, deselect it. Otherwise proceed to the next step.

- 4 To save snapshot files on the current user's desktop, make sure the *Current User's Desktop* checkbox is selected. Next, skip to step 11.

– OR –



To save snapshot files in another location, deselect the *Current User's Desktop* checkbox, then click the ellipsis button. The Browse for Folder popup displays.



- 5 Navigate to the disk drive location where you wish to save snapshot files.
- 6 If you already have a folder in which to place your snapshot files, skip to step 9. Otherwise proceed to the next step.
- 7 Click the **Make New Folder** button.
- 8 Enter the new folder name in the field provided, such as "Snapshot Files."
- 9 Click on the new folder\* to highlight it.
- 10 Click **OK**.
- 11 If you want all Vehicle Viewer users to store snapshot files in the location you just selected, select the LOCK SETTINGS checkbox in the SNAPSHOT LOCATION section. Otherwise proceed to the next step.
- 12 Click **OK**.

---

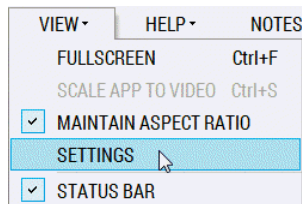
\* Make sure that the folder is accessible to **all** system users, otherwise you may prevent other users from saving snapshots to this folder.

---

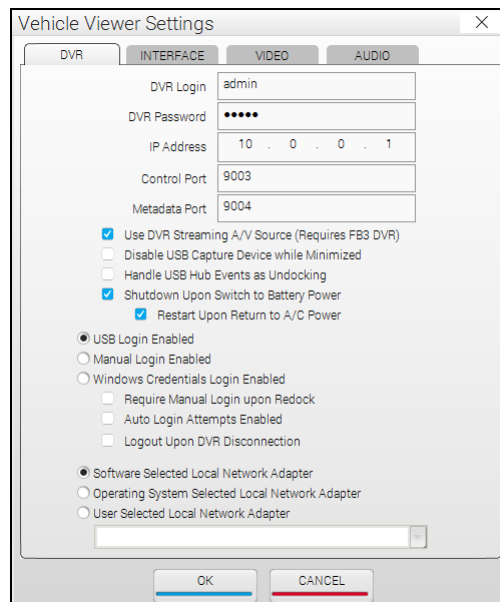
## Changing the Application's Language

This section describes how to change the language in which the application elements (menu options, field names, etc.) will display.

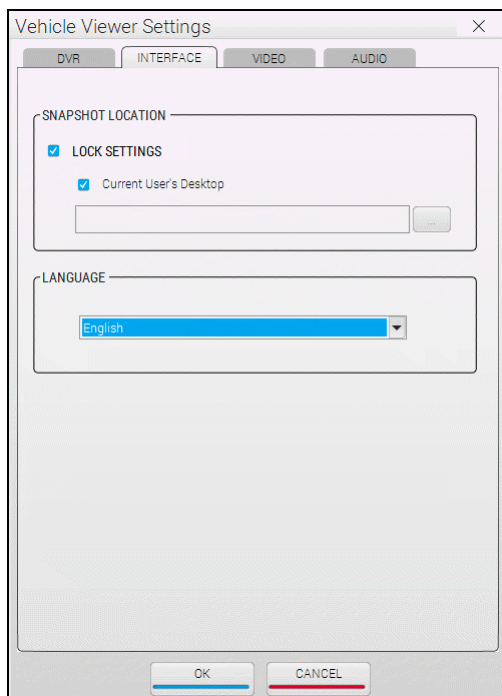
- 1 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.



The Vehicle Viewer Settings screen displays.



- 2 Click the **INTERFACE** tab.

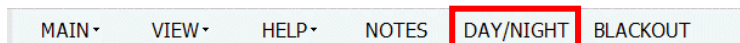


The components on this tab are described in the table on page 20.

- 3 Go to the LANGUAGE box and select the desired language from the drop-down list provided.
- 4 Click **OK**.

---

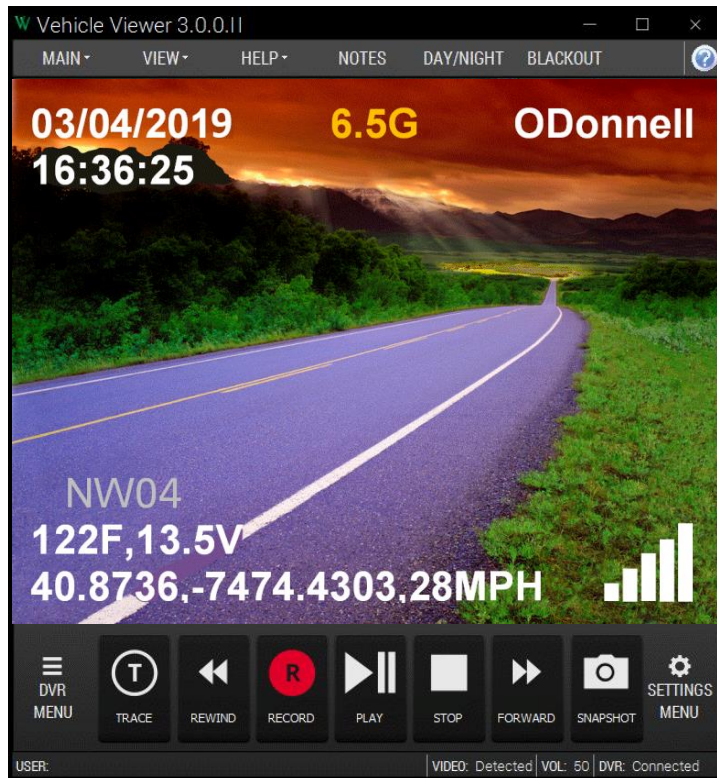
### Switching Between the Day & Night Skins



A *skin* is a user interface that determines the look and feel of an application. Vehicle Viewer uses two skins: a *day* version and a *night* version. The *day* skin is meant to be used during the daytime or when high light situations are acceptable. The *night* skin is meant to be used during the nighttime when high light situations are undesirable.

To toggle between the day and night skins, go to the top of the Main Window and click **DAY/NIGHT**. The opposite skin will automatically display.

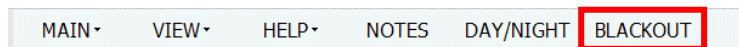
(Continued)



Main Window with  
Night Skin selected

---

### Turning Blackout Mode On/Off



If you are in a “lights out” situation, you can temporarily black out your screen display, as described below.

To enter blackout mode:

Go to the top of the Main Menu and select **BLACKOUT** from the menu bar.

– OR –

Press **F12**.

To exit blackout mode:

Press **F12**.

– OR –

Press **Esc**.

---

## Turning Fullscreen Mode On/Off

Fullscreen mode is a video display mode where the video image takes up the entire screen. While in fullscreen mode, no menus, buttons, or other controls display.

### To enter *fullscreen* mode:

Double-click on the video image.

– OR –

Go to the top of the Main Window and select **VIEW→ FULLSCREEN** from the menu bar.

– OR –

Press **Ctrl + F**.

### To exit *fullscreen* mode:

Double-click on the video image.

– OR –

Press **Esc**.

– OR –

Press **Ctrl + F**.

---

## Scaling the Application to Your Video

This section describes how to adjust the application's size to fit the dimensions of your video.

Go to the Main Window and select **VIEW→ SCALE APP TO VIDEO** from the menu bar.

– OR –

Press **Ctrl + S**.

## Changing the Video Settings

This section describes how to change those settings that affect the quality of the video playback in Vehicle Viewer.

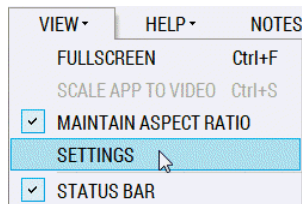
For specific instructions, see:

- ☐ Changing the Video Quality Settings, next page
- ☐ Changing the Video Trim Settings, page 28.

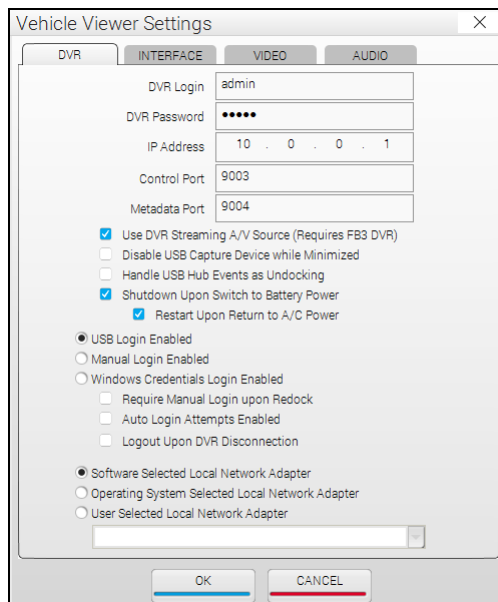
## Changing the Video Quality Settings

This section describes how to adjust the settings that affect the video playback quality in Vehicle Viewer.

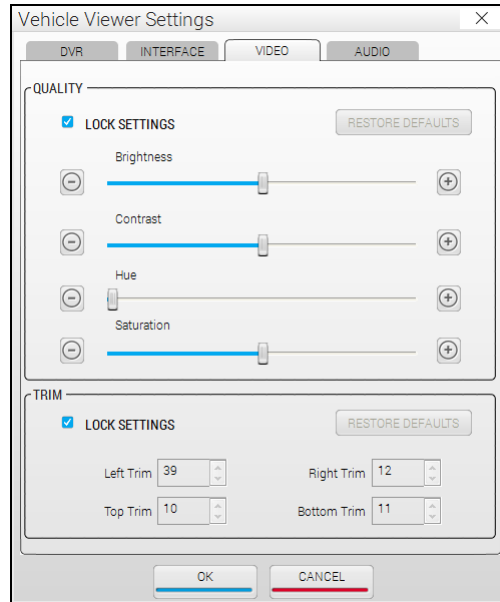
- 1 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.



The Vehicle Viewer Settings screen displays.



- 2 Click the **VIDEO** tab.



The QUALITY fields are described below.

VIDEO Tab	
QUALITY	
Component	Description
LOCK SETTINGS	A checkbox used to indicate whether the settings on the QUALITY section of the VIDEO tab are locked down to all users except System Administrators. When this checkbox is selected, these settings can only be configured by a System Administrator. This forces all Vehicle Viewer users to use the same quality settings. When this checkbox is deselected, these settings may be modified by any Vehicle Viewer user.
RESTORE DEFAULTS	A button used to return all the video quality settings to their factory defaults.
Brightness	A control bar used to manually adjust the brightness setting for Vehicle Viewer.
Contrast	A control bar used to manually adjust the contrast setting for Vehicle Viewer.
Hue	A control bar used to manually adjust the hue setting for Vehicle Viewer.
Saturation	A control bar used to manually adjust the saturation setting for Vehicle Viewer.

(Continued)

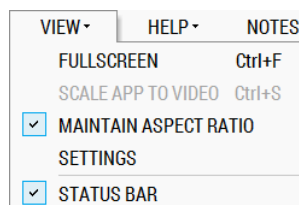
- 3 If the LOCK SETTINGS checkbox in the QUALITY section is selected, deselect it. Otherwise proceed to the next step.
- 4 If you wish to restore the quality settings to their original factory defaults, proceed to the next step. Otherwise skip to step 6.
- 5 Click the **RESTORE DEFAULTS** button. Next, skip to step 7.
- 6 Using the slide bars or +/- buttons provided, adjust the video brightness, contrast, hue, and/or saturation. As you do so, the system will immediately apply the changes to the image in your display window. Once you achieve the desired result, proceed to the next step.
- 7 If you want **all** Vehicle Viewer users to use the quality settings you just selected, select the LOCK SETTINGS checkbox in the QUALITY section. Otherwise proceed to the next step.
- 8 Click **OK**.

---

### Changing the Video Trim Settings

This section describes how to adjust the black bars that appear on the top, bottom, left, and right of a video image, referred to as “trim.”

- 1 Go to the top of the Main Window and click **VIEW**.

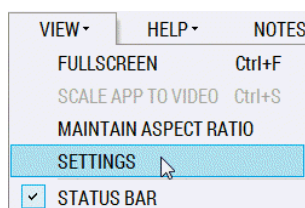


If there is a checkmark next to **MAINTAIN ASPECT RATIO** (as pictured above), click on it to deselect it. Proceed to step 2.

– OR –

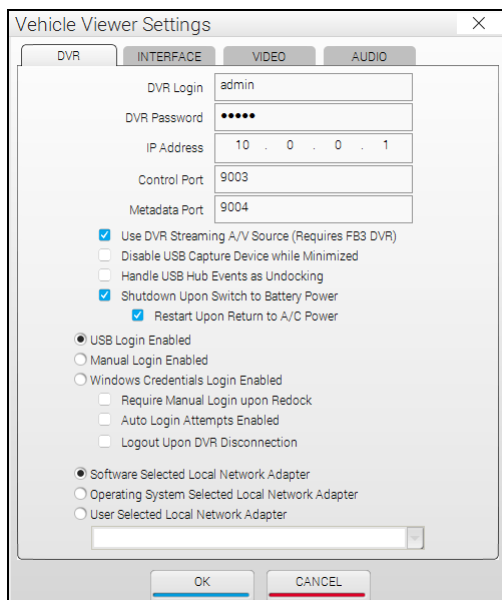
If there is *not* a checkmark next to **MAINTAIN ASPECT RATIO**, click **SETTINGS**. Skip to step 3.

- 2 Select **VIEW→ SETTINGS** from the menu bar.





The Vehicle Viewer Settings screen displays.

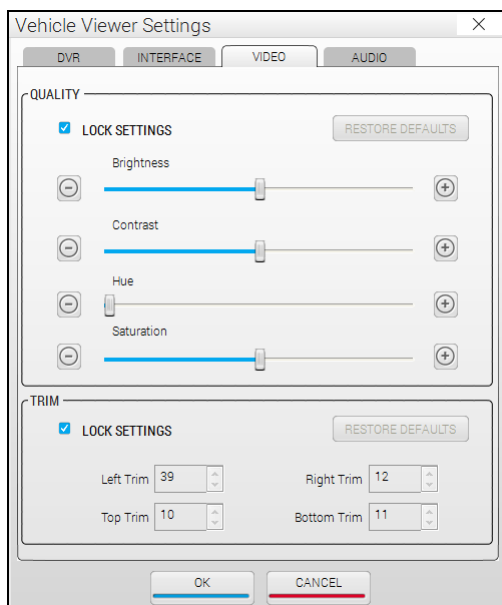


The screenshot shows the 'Vehicle Viewer Settings' window with the 'INTERFACE' tab selected. The settings include:

- DVR Login: admin
- DVR Password: masked with dots
- IP Address: 10 . 0 . 0 . 1
- Control Port: 9003
- Metadata Port: 9004
- Use DVR Streaming A/V Source (Requires FB3 DVR): ☒
- Disable USB Capture Device while Minimized: ☐
- Handle USB Hub Events as Undocking: ☐
- Shutdown Upon Switch to Battery Power: ☒
- Restart Upon Return to A/C Power: ☒
- USB Login Enabled: ☒
- Manual Login Enabled: ☐
- Windows Credentials Login Enabled: ☐
- Require Manual Login upon Redock: ☐
- Auto Login Attempts Enabled: ☐
- Logout Upon DVR Disconnection: ☐
- Software Selected Local Network Adapter: ☒
- Operating System Selected Local Network Adapter: ☐
- User Selected Local Network Adapter: ☐

Buttons at the bottom: OK, CANCEL.

**3 Click the VIDEO tab.**



The screenshot shows the 'Vehicle Viewer Settings' window with the 'VIDEO' tab selected. The settings are organized into two sections:

**QUALITY**

- LOCK SETTINGS: ☒ (RESTORE DEFAULTS button)
- Brightness: slider
- Contrast: slider
- Hue: slider
- Saturation: slider






**TRIM**


- LOCK SETTINGS: ☒ (RESTORE DEFAULTS button)
- Left Trim: 39
- Right Trim: 12
- Top Trim: 10
- Bottom Trim: 11

Buttons at the bottom: OK, CANCEL.

The TRIM fields are described in the table on the next page.

*(Continued)*

VIDEO Tab	
TRIM	
Component	Description
LOCK SETTINGS	A checkbox used to indicate whether the settings on the TRIM section of the VIDEO tab are locked down to all users except System Administrators. When this checkbox is <i>selected</i> , these settings can only be configured by a System Administrator. This forces all Vehicle Viewer users to use the same trim settings. When this checkbox is <i>deselected</i> , these settings may be modified by any Vehicle Viewer user.
	A button used to return all the trim settings to their factory defaults.
Left Trim 	A control used to remove the black bar located on the left of the video screen.
Right Trim 	A control used to remove the black bar located on the right of the video screen.
Top Trim 	A control used to remove the black bar located on the top of the video screen.
Bottom Trim 	A control used to remove the black bar located on the bottom of the video screen.

- 4 If the LOCK SETTINGS checkbox in the TRIM section is selected, deselect it. Otherwise proceed to the next step.
- 5 To restore the trim settings to their original factory defaults, click the  button.  
– OR –  
To manually adjust the trim settings, use the arrow icons provided to increase or decrease the desired settings. As you do so, the system will immediately apply the changes to the image in your display window. Once you achieve the desired result, proceed to the next step.
- 6 If you want **all** Vehicle Viewer users to use the trim settings you just selected, select the LOCK SETTINGS checkbox in the TRIM section. Otherwise proceed to the next step.
- 7 Click **OK**.

## Changing the Audio Settings

This section describes how to change those settings that affect the quality of the audio playback in Vehicle Viewer.

For specific instructions, see:

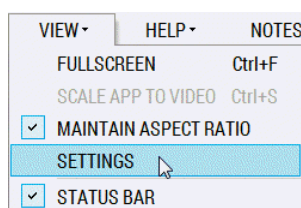
- ☐ Changing the Volume Settings Applied after Redocking, below
- ☐ Changing the Volume Settings Applied at System Startup, page 33.

---

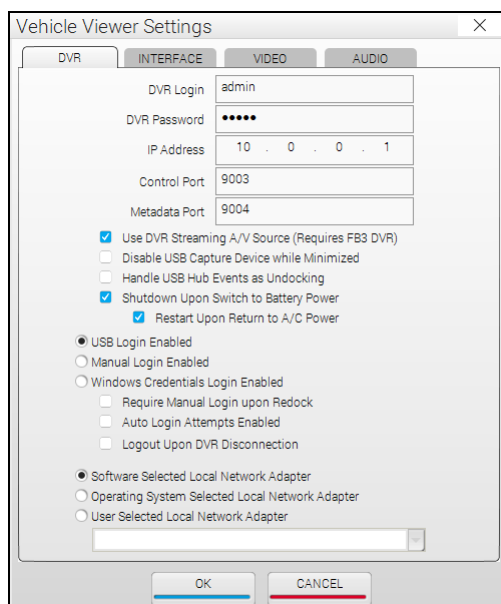
## Changing the Volume Settings Applied after Redocking

This section describes how to change those settings that determine how the video playback volume will be set after you redock your laptop. This procedure only applies to those users who have a laptop docking station in their vehicle.

- 1 Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.

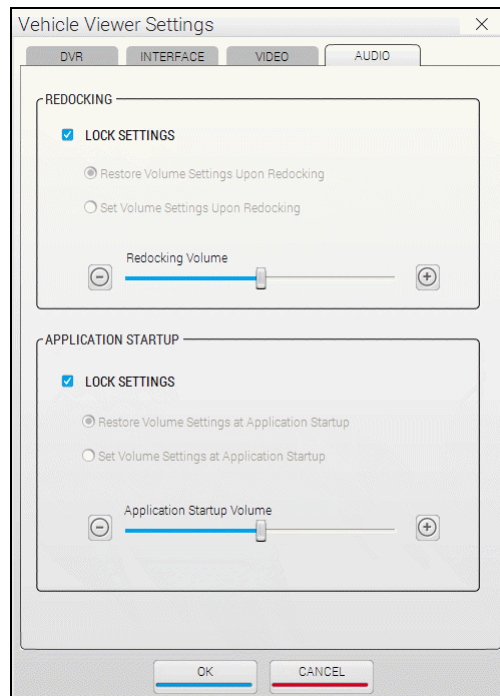


The Vehicle Viewer Settings screen displays.



*(Continued)*

## 2 Click the **AUDIO** tab.



The REDOCKING fields are described below.

AUDIO Tab	
REDOCKING	
Component	Description
LOCK SETTINGS	A checkbox used to indicate whether the settings in the REDOCKING section of the AUDIO tab are locked down to all users except System Administrators. When this checkbox is <i>selected</i> , these settings can only be configured by a System Administrator. This forces all Vehicle Viewer users to use the same redocking settings. When this checkbox is <i>deselected</i> , these settings may be modified by any Vehicle Viewer user.
Restore Volume Settings Upon Redocking	If this radio button is selected, then whenever you redock your laptop, the system will automatically restore the video playback volume to the level it was set to at the time of your last undocking.
Set Volume Settings Upon Redocking	If this radio button is selected, then whenever you redock your laptop, the system will set the video playback volume to the current <i>Redocking Volume</i> setting (see next page).

AUDIO Tab (cont'd)	
REDOCKING (cont'd)	
Component	Description
Redocking Volume	A control used to select the volume that the system will automatically revert to whenever you redock your laptop. Used in conjunction with the <i>Set Volume Settings Upon Redocking</i> radio button.

- If the LOCK SETTINGS checkbox in the REDOCKING section is selected, deselect it. Otherwise proceed to the next step.

- If you want the system to automatically restore the video playback volume to the level it was set to at the time of your last undocking, select the *Restore Volume Settings Upon Redocking* radio button. Next, skip to step 6.

– OR –

If you want the system to automatically set the video playback volume to the current *Redocking Volume* setting each time you redock your laptop, select the *Set Volume Settings Upon Redocking* radio button.

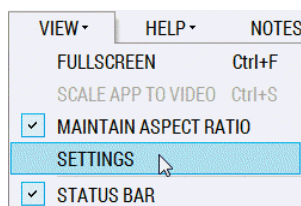
- Using the *Redocking Volume* slide bar or +/- icons, select the volume that you want the system to revert to whenever you redock your laptop.
- If you want **all** Vehicle Viewer users to use the redocking audio settings you just selected, select the LOCK SETTINGS checkbox in the REDOCKING section. Otherwise proceed to the next step.
- Click **OK**.

---

### Changing the Volume Settings Applied at System Startup

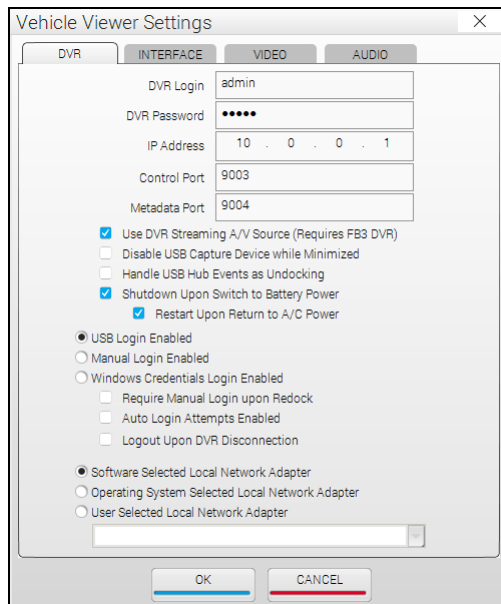
This section describes how to change those settings that determine how the video playback volume will be set at system start-up.

- Go to the top of the Main Window and select **VIEW→ SETTINGS** from the menu bar.



The Vehicle Viewer Settings screen displays.

(Continued)

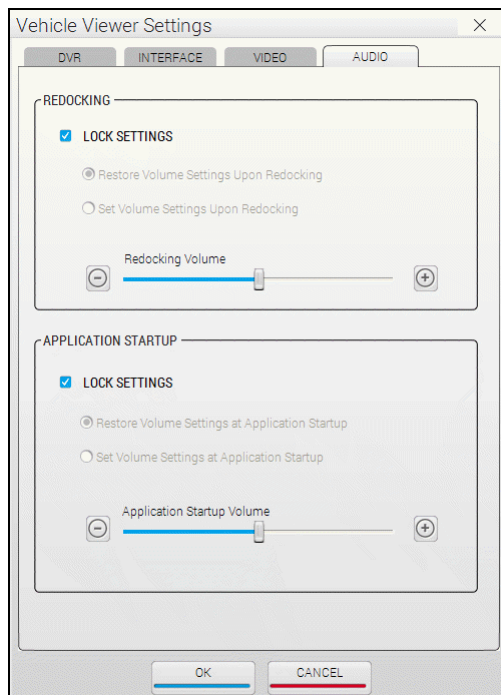


The screenshot shows the 'Vehicle Viewer Settings' dialog box with the 'INTERFACE' tab selected. The 'DVR' tab is also visible. The settings include:

- DVR Login: admin
- DVR Password: [masked]
- IP Address: 10 . 0 . 0 . 1
- Control Port: 9003
- Metadata Port: 9004
- ☒ Use DVR Streaming A/V Source (Requires FB3 DVR)
- ☐ Disable USB Capture Device while Minimized
- ☐ Handle USB Hub Events as Undocking
- ☒ Shutdown Upon Switch to Battery Power
- ☒ Restart Upon Return to A/C Power
- ☒ USB Login Enabled
- ☐ Manual Login Enabled
- ☐ Windows Credentials Login Enabled
  - ☐ Require Manual Login upon Redock
  - ☐ Auto Login Attempts Enabled
  - ☐ Logout Upon DVR Disconnection
- ☒ Software Selected Local Network Adapter
- ☐ Operating System Selected Local Network Adapter
- ☐ User Selected Local Network Adapter

Buttons: OK, CANCEL

2 Click the **AUDIO** tab.



The screenshot shows the 'Vehicle Viewer Settings' dialog box with the 'AUDIO' tab selected. The settings include:

- REDOCKING**
  - ☒ LOCK SETTINGS
    - ☒ Restore Volume Settings Upon Redocking
    - ☐ Set Volume Settings Upon Redocking
  - Redocking Volume: [slider]
- APPLICATION STARTUP**
  - ☒ LOCK SETTINGS
    - ☒ Restore Volume Settings at Application Startup
    - ☐ Set Volume Settings at Application Startup
  - Application Startup Volume: [slider]

Buttons: OK, CANCEL

The APPLICATION STARTUP fields are described in the following table.

AUDIO Tab	
APPLICATION STARTUP	
LOCK SETTINGS	A checkbox used to indicate whether the settings on the APPLICATION STARTUP section of the AUDIO tab are locked down to all users except System Administrators. When this checkbox is <i>selected</i> , these settings can only be configured by a System Administrator. This forces all Vehicle Viewer users to use the same application startup redocking settings. When this checkbox is <i>deselected</i> , these settings may be modified by any Vehicle Viewer user.
Restore Volume Settings at Application Startup	If this radio button is selected, then whenever you login to Vehicle Viewer, the system will automatically restore the video playback volume to the level it was set to the last time the application was manually shut down.
Set Volume Settings at Application Startup	If this radio button is selected, then whenever you login to Vehicle Viewer, the system will set the video playback volume to the <i>Application Startup Volume</i> setting (see description below) at application startup.
Application Startup Volume	A control used to select the volume that the system will automatically revert to whenever you start the Vehicle Viewer application. Used in conjunction with the <i>Set Volume Settings at Application Startup</i> radio button.

- 3 If the LOCK SETTINGS checkbox in the APPLICATION STARTUP section is selected, deselect it. Otherwise proceed to the next step.
- 4 If you want the system to automatically restore the video playback volume to the level it was set to the last time the application was shut down, select the *Restore Volume Settings at Application Startup* radio button. Next, skip to step 6.  
– OR –  
If you want the system to automatically set the video playback volume to the current *Application Startup Volume* setting each time you login to Vehicle Viewer, select the *Set Volume Settings at Application Startup* radio button.
- 5 Using the *Application Startup Volume* slide bar or +/- icons, select the volume that you want the system to revert to whenever you login to the application.
- 6 If you want **all** Vehicle Viewer users to use the application startup audio settings you just selected, select the LOCK SETTINGS checkbox in the APPLICATION STARTUP section. Otherwise proceed to the next step.
- 7 Click **OK**.

---

## Contact Information

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