



# UBB-4.CQ

## (4) Channel DVR System with Built-in Quad Processor



### **INSTALLATION & OPERATION INSTRUCTIONS**

The ultimate in video recording technology, the UBB-4.CQ Mobile DVR system provides around-the-clock video surveillance recording for your vehicle. These recordings may be used in court to show proof of any event that took place such as: accidents, theft, vandalism or car jacking. It is a vehicle "black box" DVR system that can support up to four different cameras for simultaneous recording around the vehicle. The system uses (3) separate trigger inputs (Ignition, Security and Reverse) to initiate the recording of all four cameras and will store the recordings onto (3) individual files on a removable SD card. The recordings can be reviewed on-site through an LCD monitor or the SD card can be removed and viewed on a computer.

#### **FEATURES:**

- Provides around-the-clock video surveillance recording for your vehicle
- Allows (4) different cameras to record simultaneously
- (3) Separate trigger zones: Ignition, dome light (security) and reverse light
- Recordings can be reviewed on-site through an LCD monitor or on your home computer
- Uses SD card (32GB max)
- Recordings are stored in (3) separate files on the SD card
- Resolution: 720 x 480
- Includes plug-in microphone for audio recording inside the vehicle
- Full functioning remote to access the system menus and features
- Plug-in IR sensor for remote
- Records time and date of the events
- System can be integrated with any alarm or remote start system
- Compatible with any SecurView camera or standard RCA camera

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## INTRODUCTION:

*This manual contains the information necessary for installing and operating your DVR system. If any questions arise, contact your installation dealer or Crimestopper Security Products Inc.*

*This installation book is designed for the installer or individual with an existing understanding of automotive electrical systems, along with the ability to test and connect wires for proper operation. To ease installation, we suggest that you **READ THIS MANUAL** before beginning your installation. This book is provided as a **GENERAL GUIDELINE** and the information contained herein may differ from your vehicle.*

### **DISCLAIMER:**

*Crimestopper Security Products, Inc. and its vendors shall not be liable for any accident resulting from the use of this product. This system is designed to be professionally installed into a vehicle in which all systems and associated components are in perfect working condition.*

## ***PRE-INSTALLATION CONSIDERATIONS:***

**BEFORE BEGINNING**, check all vehicle manufacturer cautions and warnings regarding electrical service (AIR BAGS, ABS BRAKES, ENGINE / BODY COMPUTER AND BATTERY).

**PLAN OUT YOUR INSTALLATION.** You should pre-determine the location of the DVR Module (Brain), Microphone, IR Sensor, Camera(s) and LCD monitor. This will save time and ease the installation process. Please make sure that when you are determining the mounting location of the DVR module that you take into account that you will need to retrieve the SD card at some point. Be sure to mount this module in a location that will make it easy for you to do so.

**USE VOLT/OHM METER** to test and locate all connections. During this installation, you will be testing for ignition power, dome light triggers, reverse lights, etc. Test Lights or Lighted Probes could possibly damage a vehicle's computer system or cause an airbag to deploy.

**ADDITIONAL PARTS**, such as additional relays, wire connectors and zip ties are not included with this unit, and will be needed for your installation.

**CAMERA(S) AND LCD MONITORS** are not included with this kit and will need to be purchased separately. Any SecurView™ cameras and monitors will be compatible with your UBB-4CQ DVR system. However, you may also use any aftermarket camera and monitor that use a standard RCA video connection. **ALWAYS BENCH TEST** all cameras and monitors before actually installing them into the vehicle.

## ***CAUTIONS & WARNINGS:***

***DAMAGE RESULTING FROM IMPROPER INSTALLATION IS NOT COVERED UNDER WARRANTY!!!***

**DO NOT ROUTE ANY WIRING THAT MAY BECOME ENTANGLED** with the brake/gas pedals, steering column, or any other moving parts in the vehicle. If you are planning on installing the DVR module under one of the seats, please make sure to leave slack on all wires and cables so that when the seat is moved back and forward, the cables are not outstretched or broken. Also, be sure to stay clear of any air bag or occupant sensors and connectors under the seats.

**WHEN INSTALLING THE CAMERAS, BE SURE** to double check behind the mounting locations to make sure that you will not be drilling into any wire harnesses or other OEM equipment. If you are installing the interior cameras on the headliner, be sure to double check for clearance underneath the headliner so you will not drill through the outer roof or through any wire harnesses, modules or air vents in the ceiling of the vehicle.

**DO NOT** route any video cables or harnesses in front of any curtain air bags or knee air bags in the vehicle. Doing so may cause the air bags to fail in case of an accident causing injury to the driver and passengers.

**DO NOT** install the LCD monitor in a location that will obstruct the driver's view.

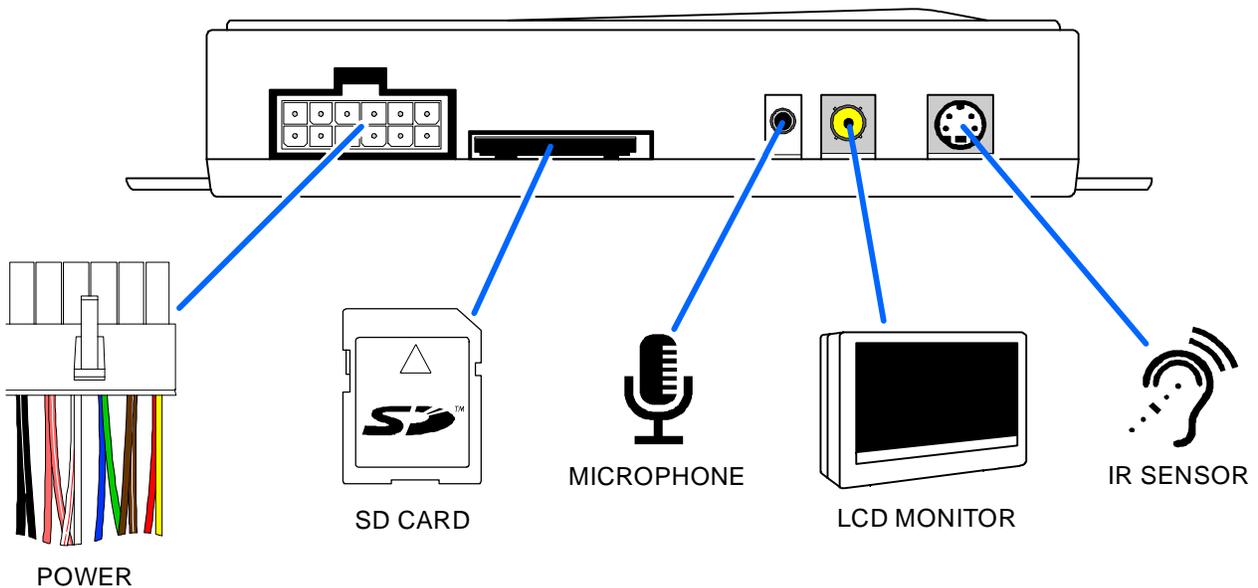
# INSTALLATION

## HARDWARE INCLUDED: (What's in the Kit)

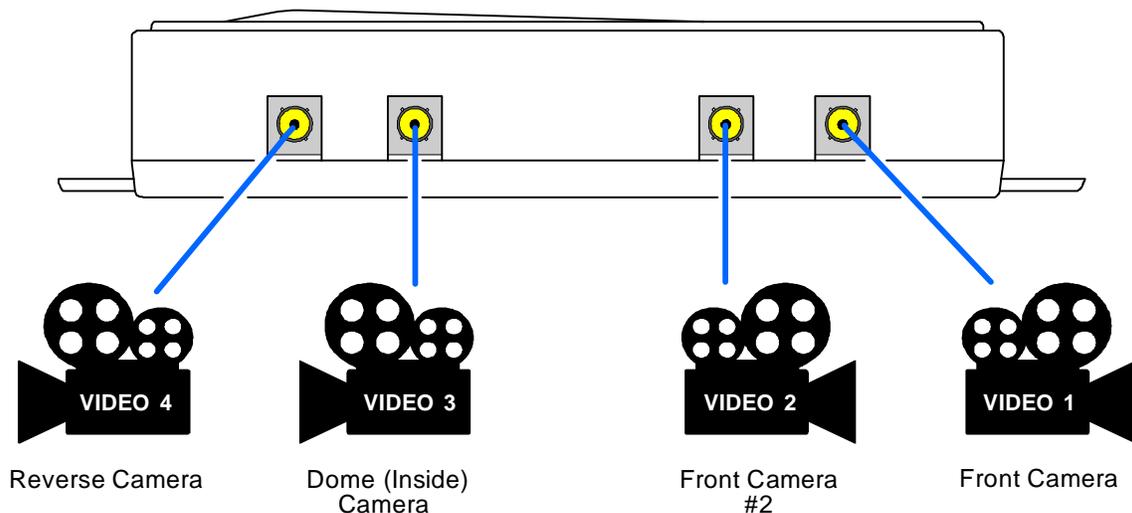
- (1) Control Module
- (1) Full functional remote with battery
- (1) 12-pin power connector
- (1) 8GB SD card
- (1) IR sensor cable
- (1) Wired microphone
- (1) Instruction manual
- (1) Warranty card

**NOTE:** Cameras and monitor are sold separately from the system. Any SecurView™ camera and monitor or any camera and monitor that use a standard RCA video output connection is compatible with this DVR system. There are special packages available which will bundle the UBB-4.CQ system with up to four cameras.

### FRONT VIEW



### BACK VIEW



# INSTALLATION

## WIRING: -12 Pin Connector-

### Yellow: (+) 12V Battery Power

Connect this wire to a constant 12V power source such as the battery or any battery source under the dash (Ignition barrel power harness or fuse box)

### Red: (+) 12V Ignition Input

This input will activate the video inputs and begin recording when the ignition is turned on. Connect this wire to an IGNITION circuit (or fuse in the fuse box) that shows +12 Volts when the key is in both "On" and "Start" (WHEN CRANKING) positions.

### Brown/White: (+) Dome Light Input

This input will activate the video inputs and begin recording when the door is opened. Connect this wire to the positive dome light circuit in the vehicle. This circuit will show 12 volts when the vehicle door is opened and rest at ground when the door is closed.

### Brown: (-) Dome Light Input

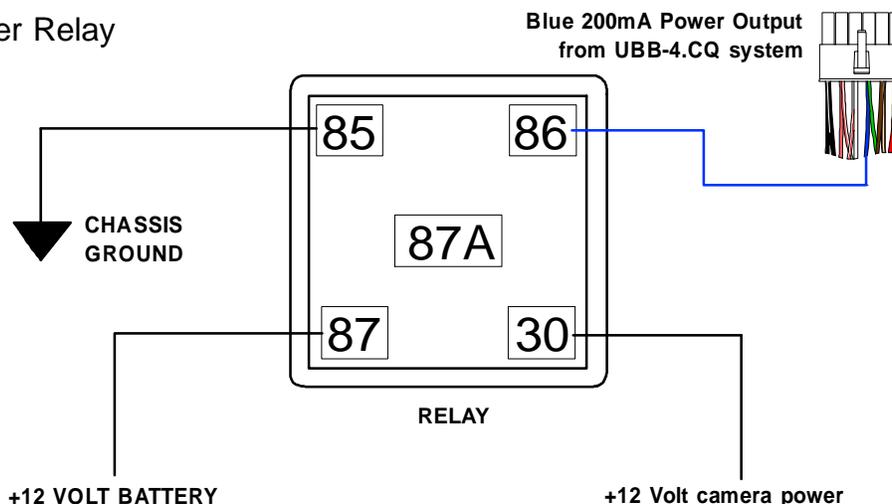
This input will activate the video inputs and begin recording when the door is opened. Connect this wire to the negative dome light circuit in the vehicle. This circuit will show ground when the vehicle door is opened and rest open when the door is closed.

### Blue: (+) Camera Power Output (200mA Max, REQUIRES RELAY)

This wire provides a 12V 200mA output to power up the camera(s) when any of the three trigger inputs of the system are activated. Since this wire is only a 200mA max, a relay is required to power the 1-3 cameras of the system. Connect blue wire to terminal #86 of relay. Connect terminal #85 to chassis ground. Connect terminal #87 to a +12V constant battery source. Connect Terminal #30 to the 1-3 camera power inputs. (See FIGURE 1)

**FIGURE 1**

Camera Power Relay



### White/Red: (+) 12V Reverse Light Input

This input will activate the VIDEO 4 input and begin recording when the vehicle is shifted into reverse. Connect this wire to the 12V reverse light circuit in the vehicle. This circuit will show 12 volts only when the vehicle is shifted into reverse.

# INSTALLATION

## WIRING: -12 Pin Connector- (Continued)

**Green:** No Connection

**White:** No Connection

**Pink:** No Connection

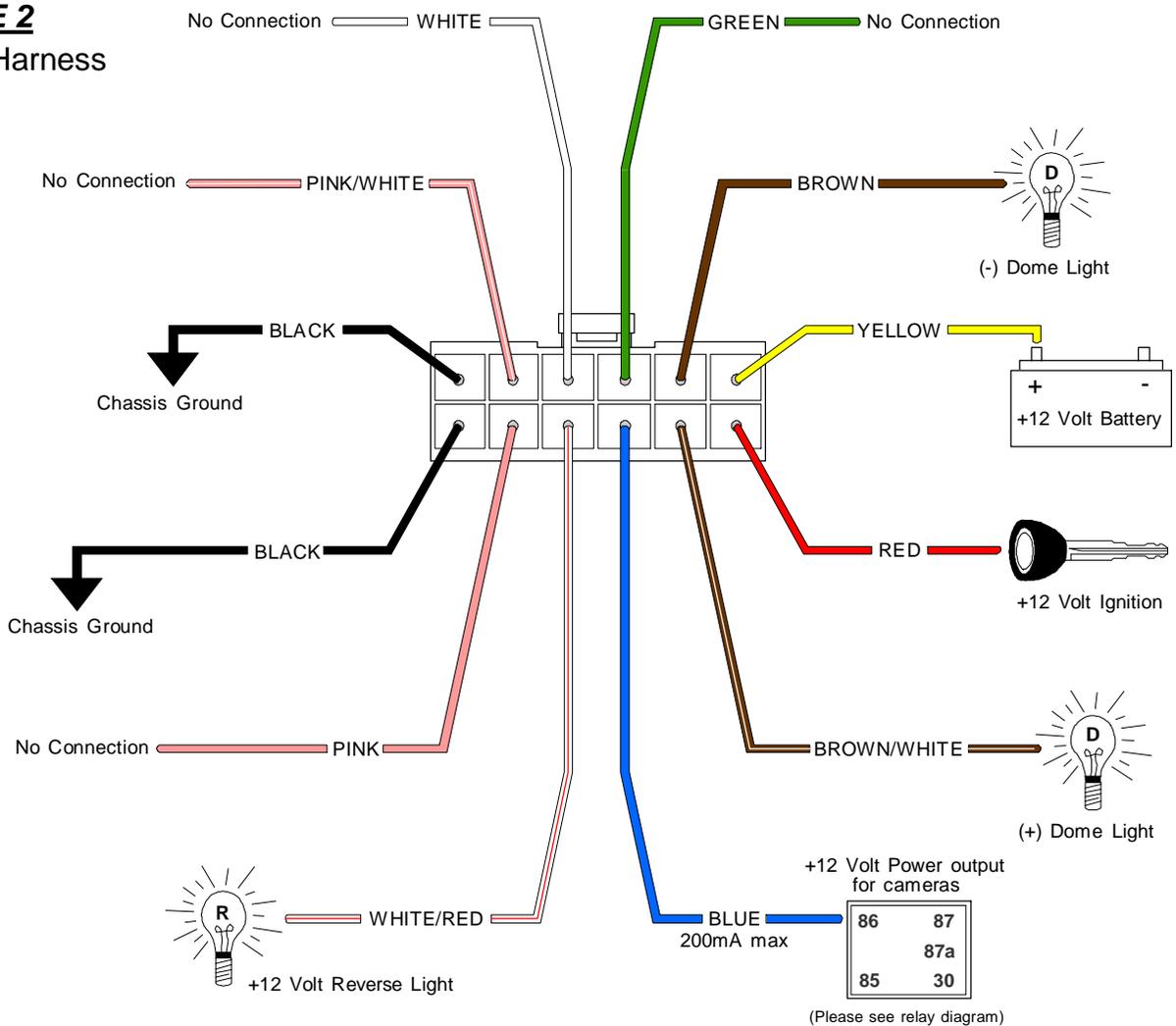
**Pink/White:** No Connection

### Black (2x): (-) Main System Ground

Connect these two wires to the CHASSIS METAL of the vehicle. Scrape away any paint or debris from the connection point and use a star washer to ensure a good connection. Keep the ground wire as short as possible.

**FIGURE 2**

12-Pin Harness



**NOTE:** Both the Brown and the Brown/White wires do not need to be hooked up at the same time. You may use one or the other depending on the type of door circuit your vehicle has.

**NOTE:** Please make sure to use a relay on the Blue wire to power the cameras. Failure to do so will result in damage to the system. (See FIGURE 1 on previous page)

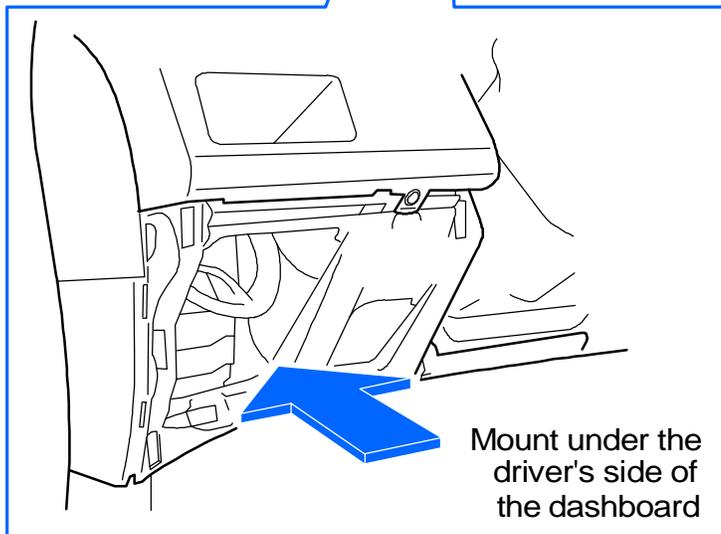
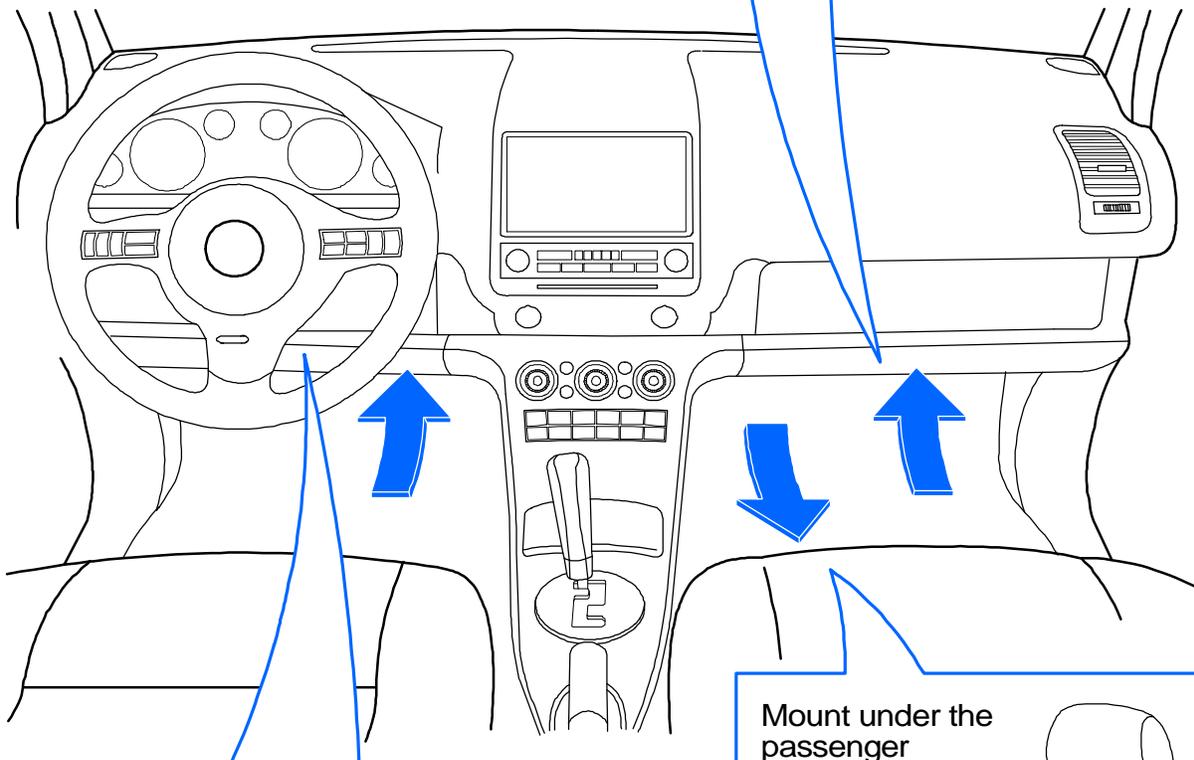
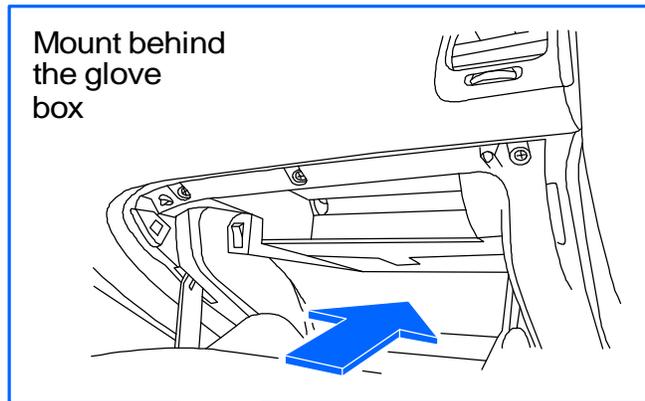
# INSTALLATION

## INSTALLING THE MODULE:

**FIGURE 3**

Make sure to install the DVR module in an easily accessible location so that you can retrieve the SD card easily

Also make sure that all video cables and wires will not be pinched or caught on any moving parts in the mounting location



# INSTALLATION

## INSTALLING THE MODULE: (Continued)

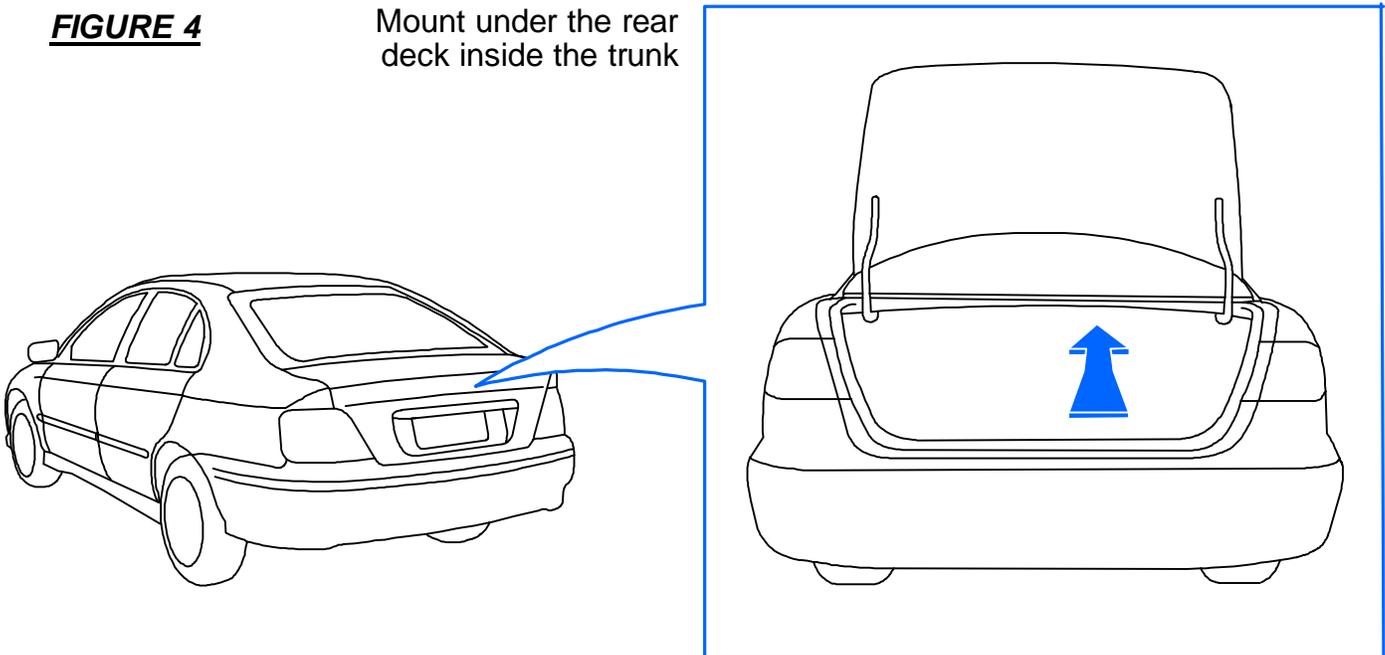
1. Carefully choose a location to mount the UBB-4.CQ main module. Keep in mind that you will not only have many different cables and harnesses connecting to this module but you will also need to be able to retrieve the SD card easily to view the recordings or change out the SD card.
2. There are many different locations to mount the module. The primary choice is of course under the dash board but you can also mount the module under the passenger seat or even behind the glove box. **(SEE FIGURE 3)**

**NOTE:** *If you are installing the module under the dash board or behind the glove box, make sure to keep all cables clear of moving parts such as the steering column, pedals or vents. If installing under the passenger seat, please make sure to leave slack on all cables to account for the seat moving back and forward. Also make sure to stay clear of any air bag and occupant sensors under the seat.*

3. If installing on a car, you can sometimes mount the module underneath the rear deck inside the trunk if there is not enough space anywhere else in the car. **(See FIGURE 4)** If you are installing in the trunk, please make sure that the microphone and IR Sensor cables have adequate length to reach up to the front of the vehicle.

**FIGURE 4**

Mount under the rear deck inside the trunk



**NOTE:** *On some older model cars, this mounting location will not be applicable because the trunk lid tension rods go across the bottom of the deck and will not leave enough space to mount. Some vehicles may also have other OEM equipment installed in this space such as a navigation system, subwoofer or factory amplifier.*

*Again, please make sure to mount the module in a location where you can easily retrieve the SD card from the system.*

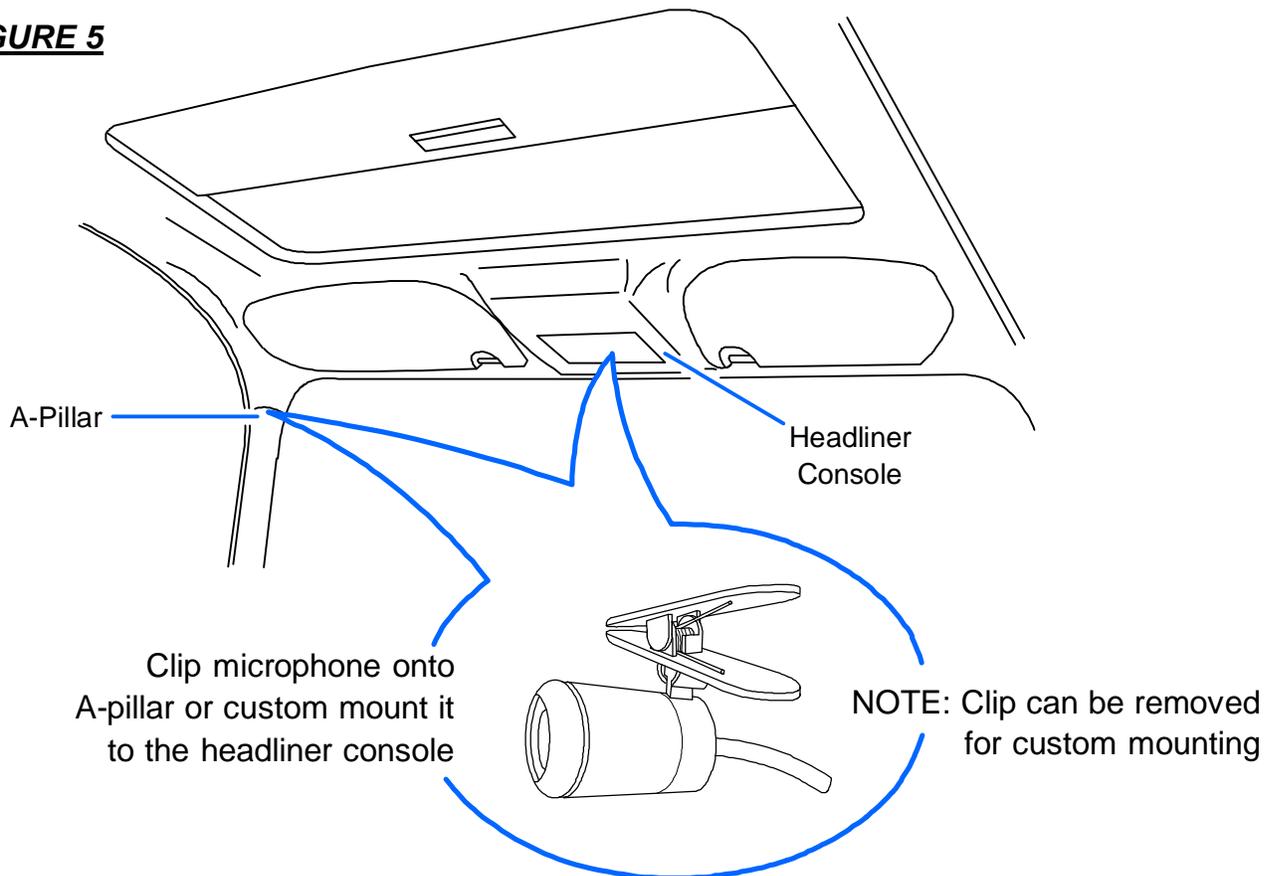
# INSTALLATION

## INSTALLING THE MICROPHONE:

1. The UBB-4.CQ system comes included with a small wired microphone that plugs into the unit and can be mounted inside the vehicle for audio recording when the unit is activated.
2. You'll want to install the microphone in a location where it will pick up any noises all around the interior of the vehicle. It does not need to necessarily be mounted in the center of the headliner but the higher up, the better. The best locations are the driver's side A-Pillar or custom mounted into the center roof console. **(See FIGURE 5)** In these locations, the microphone should be able to pick up any noises inside the vehicle when the system is recording.
3. The microphone comes with a small clip that you can use to loosely surface mount it to a panel or a wire harness. If you are going to use this method, the best place to mount it would be either on the top of the A-Pillar. If you have a rear view mirror that has map lights or any electronic functions, then you can most likely clip the microphone to the mirror's wire harness coming from the headliner.

**NOTE:** You can remove the clip by sliding it sideways off of the microphone. This will allow you to custom mount the microphone into a panel if you choose to do so.

**FIGURE 5**



**NOTE:** Try to avoid mounting the microphone next to any speakers or Bluetooth™ devices in the vehicle. This may cause the microphone to pick up feedback and will not give you proper audio recording.

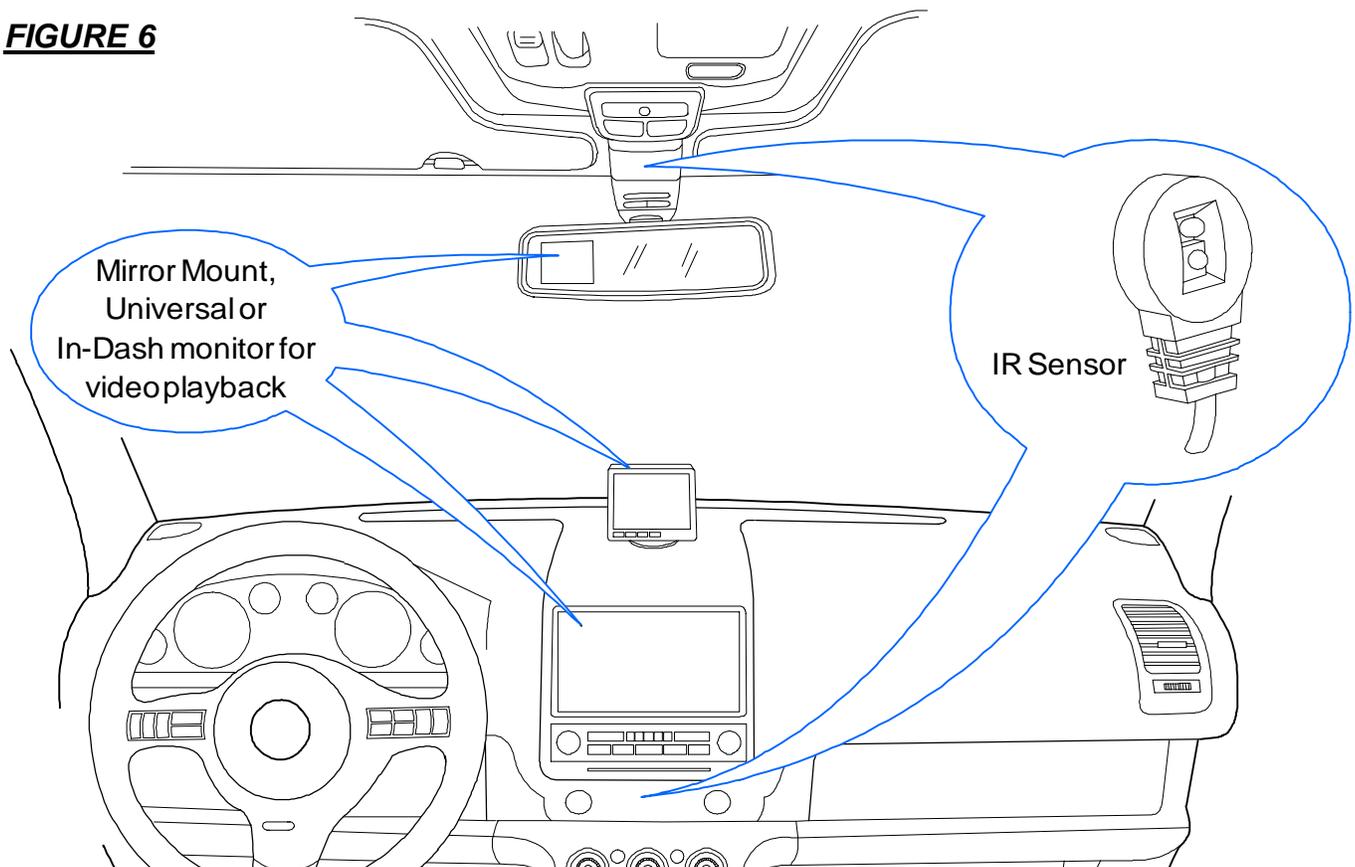
# INSTALLATION

## INSTALLING THE IR SENSOR:

1. The UBB-4.CQ includes a small wired IR sensor that plugs into the module and is mounted in a location where the system's remote control can transmit line-of-sight to it. This sensor is responsible for allowing the remote control to communicate with the module and allow you to navigate through the system's menus and settings. It is very important to place this sensor in a location that is out of the way but can easily be seen by the remote's infrared eye.
2. Mount the IR sensor either on the dash board or up by the rear view mirror so that you can easily point the remote at it to operate the system and access the menus and settings. (See **FIGURE 6**) The sensor has double-side tape to mount it to the surface.

**NOTE:** If you do not install the IR sensor, the remote will not communicate with the module and you will not be able to access the system's menus or change any settings of the DVR system. The IR Sensor also has a green LED to indicate whether the system is on or off.

**FIGURE 6**



## INSTALLING THE LCD MONITOR:

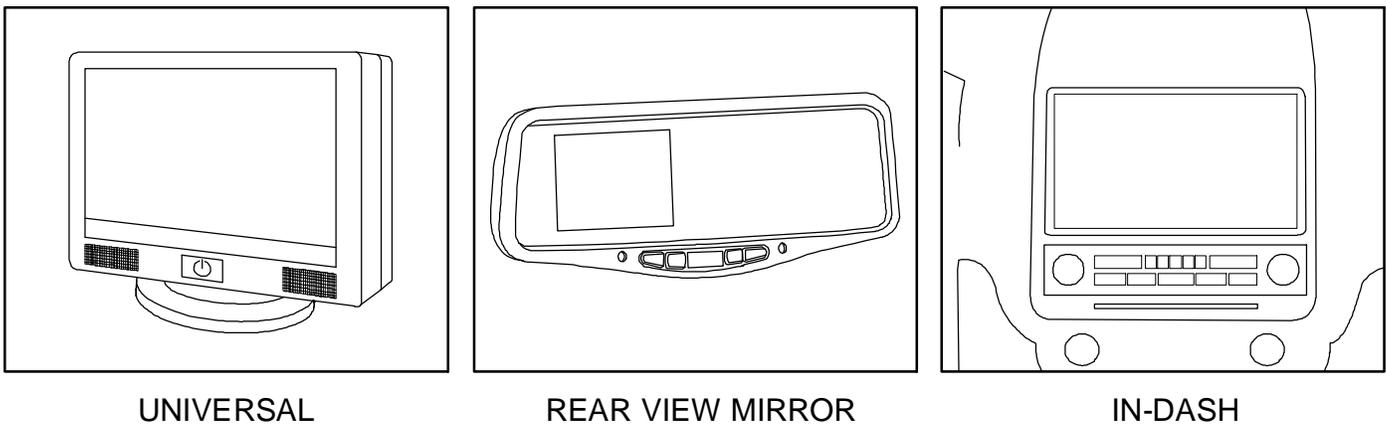
1. The UBB-4.CQ uses a standard RCA video output for connection to a monitor for on-sight playback of the recordings and to view the system menus. Any SecurView™ monitor or any aftermarket universal, rear view mirror or in-dash style monitors that use a standard RCA video input will be compatible with this DVR system. (See **FIGURE 6**)

# INSTALLATION

## INSTALLING THE LCD MONITOR: (Continued)

2. There are several different types of monitors that can be used with this system. You can use any rear view mirror, universal or in-dash style monitors as long as they have a standard RCA video input (See FIGURE 7)
3. You will need to refer to the installation instructions of the monitor to find out how to install them in the vehicle but most of the monitors are very simple to install and will require minimal installation time. Most monitors will have at least one video input to connect to the UBB-4.CQ system and will require you to connect power to a +12V ignition source so that the monitor will come on when the key is on at all times.

**FIGURE 7**



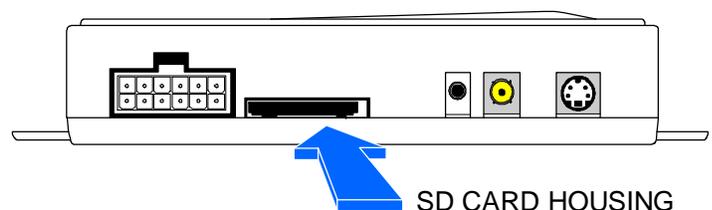
**NOTE:** The LCD monitor is **NOT INCLUDED** with the UBB-4.CQ system and will have to be purchased separately. If you are going to use the UBB-4.CQ system with an OEM in-dash monitor than some special interface parts will be required to integrate the OEM equipment with the aftermarket RCA video plugs.

If you do not install a monitor with the UBB-4.CQ system, then you will not be able to access the system menus and change any of the settings. You will also not be able to view the recordings onsite and you will have to remove the SD card and connect it into a PC or Apple computer to view the recordings. It is strongly recommended that you install and connect an LCD monitor with this DVR system.

## INSTALLING THE SD CARD:

The SD card is housed in a small opening on the front side of the main module next to the 12-pin power harness. (See FIGURE 8) Insert the SD card into the housing and press down to lock it into place. To retrieve the SD card, press down on the top side of it and it will spring release out of the housing.

**FIGURE 8**

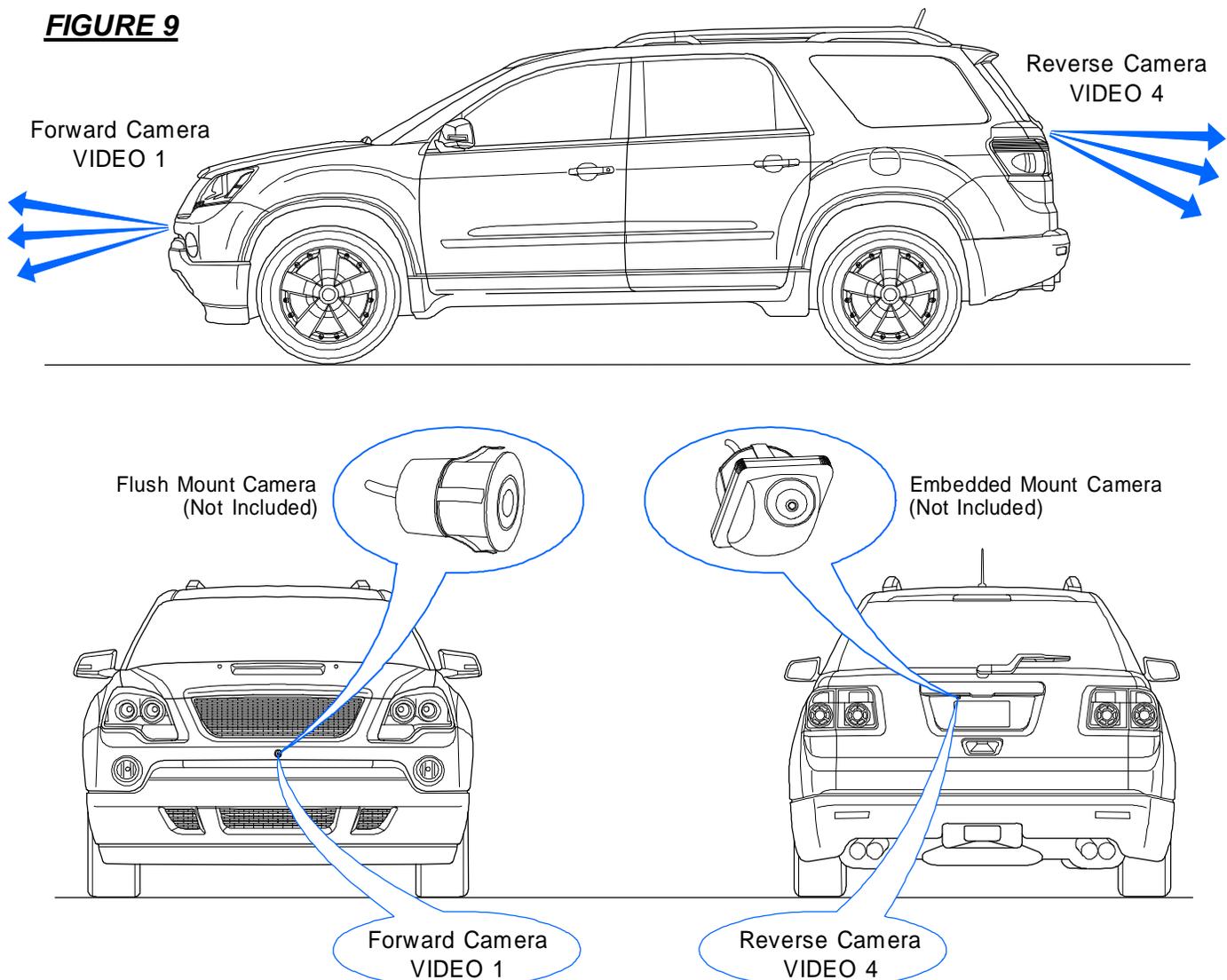


# INSTALLATION

## INSTALLING THE CAMERAS:

1. The UBB-4.CQ has four camera inputs and can simultaneously record from all four cameras when the system is activated. The system's four inputs are for a Front camera (VIDEO 1), Reverse Camera (Video 4), Security or Dome Light Camera (Video 3) and also a Video 2 input for a 4th general purpose camera. The system will automatically detect when a camera is plugged into the specified input and will start simultaneously recording on all cameras when the system is activated either by the Ignition, Reverse or Security (Dome Light) triggers.
2. The forward and reverse cameras will mount on the front and the rear of the vehicle like normal camera installations. You can use any SecurView™ camera or any aftermarket style camera that uses a standard RCA video output. (See FIGURE 9)

**FIGURE 9**



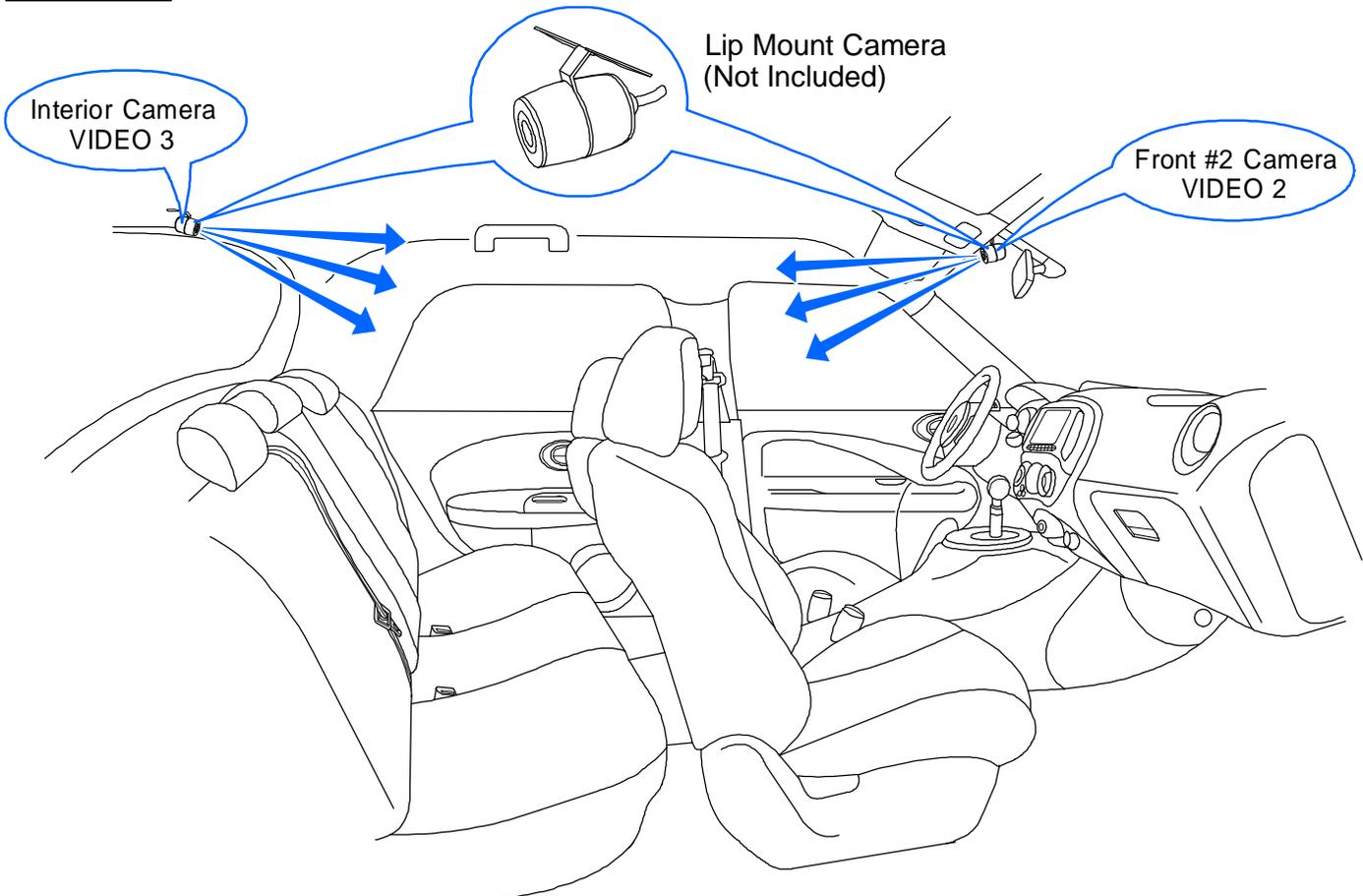
**NOTE:** Using a camera that has Normal or Reverse image selection is usually the best way to go. This way, if you have to install the cameras in different locations, you can flip the image to make sure that you are viewing it correctly on your monitor and in your recordings.

# INSTALLATION

## INSTALLING THE CAMERAS: (Continued)

3. The forward camera RCA connects to the VIDEO 1 port on the UBB-4.CQ and the Reverse camera RCA plugs connects to the VIDEO 4 port on the UBB-4.CQ.
4. For the interior camera, you will most likely want to use a camera that is smaller and less noticeable. The SecurView™ SV-007, SV-6828 or SV-6922.LM.II cameras are perfect solutions since they are all small but high-resolution cameras. However, any camera with an RCA video output connection will work just fine.
5. Mounting the interior camera higher up on the headliner is usually the best place. The interior camera connects into the VIDEO 3 port on the UBB-4.CQ system. The VIDEO 2 port can be used as an extra video source for another front camera, so you can place the camera wherever you want on the interior or exterior of the vehicle. In this case, we show it being used on the interior of the vehicle. (See FIGURE 10)

**FIGURE 10**

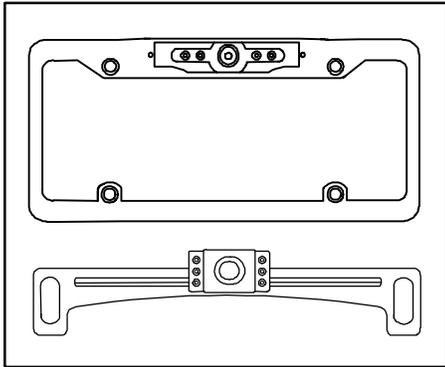


**NOTE:** When installing the interior camera(s), try to mount them in a location where the entire interior of the can be viewed by the camera. Usually the best place for this is up higher on the headliner either in the front or the rear of the interior. If you are using both the VIDEO 2 and VIDEO 3 cameras for the interior, then you should be able to view all angles of the vehicle interior (See FIGURE 10)

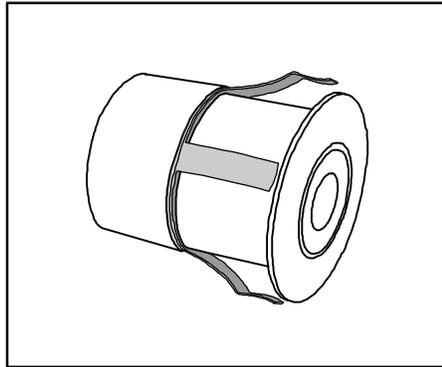
# INSTALLATION

## INSTALLING THE CAMERAS: (Continued)

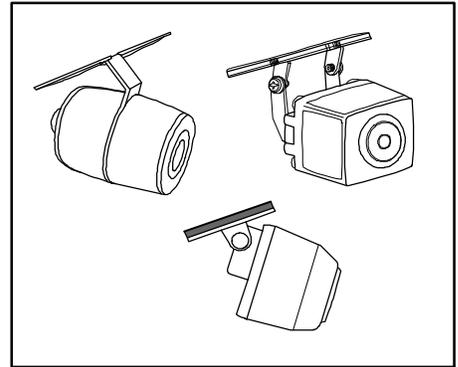
**FIGURE 11**



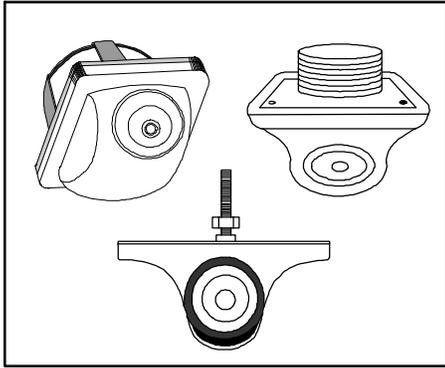
LICENSE PLATE MOUNT



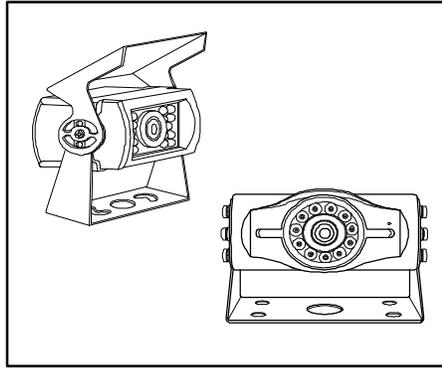
FLUSH MOUNT



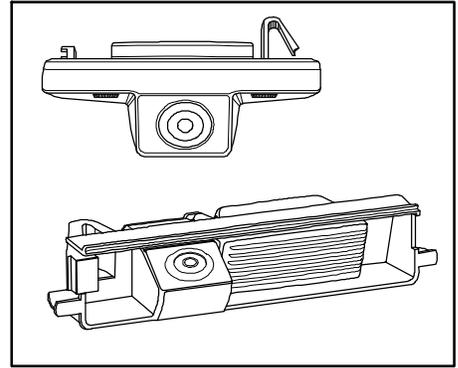
LIP MOUNT



EMBEDDED MOUNT



HANGING STYLE



CUSTOM OEM STYLE

**NOTE:** There are several different types of SecurView™ cameras available that are compatible with this DVR system. (See FIGURE 11) However any standard RCA type video output camera will be compatible. Please refer to the instructions included with the cameras for specifics on how to mount them to the vehicle.

Most SecurView™ cameras will come with a normal/reverse image selection which will allow you to flip the image from right to left depending on where the camera is to be mounted on the vehicle. This is very useful for using the same style of camera to mount on the front, back, left and right side of the vehicle.

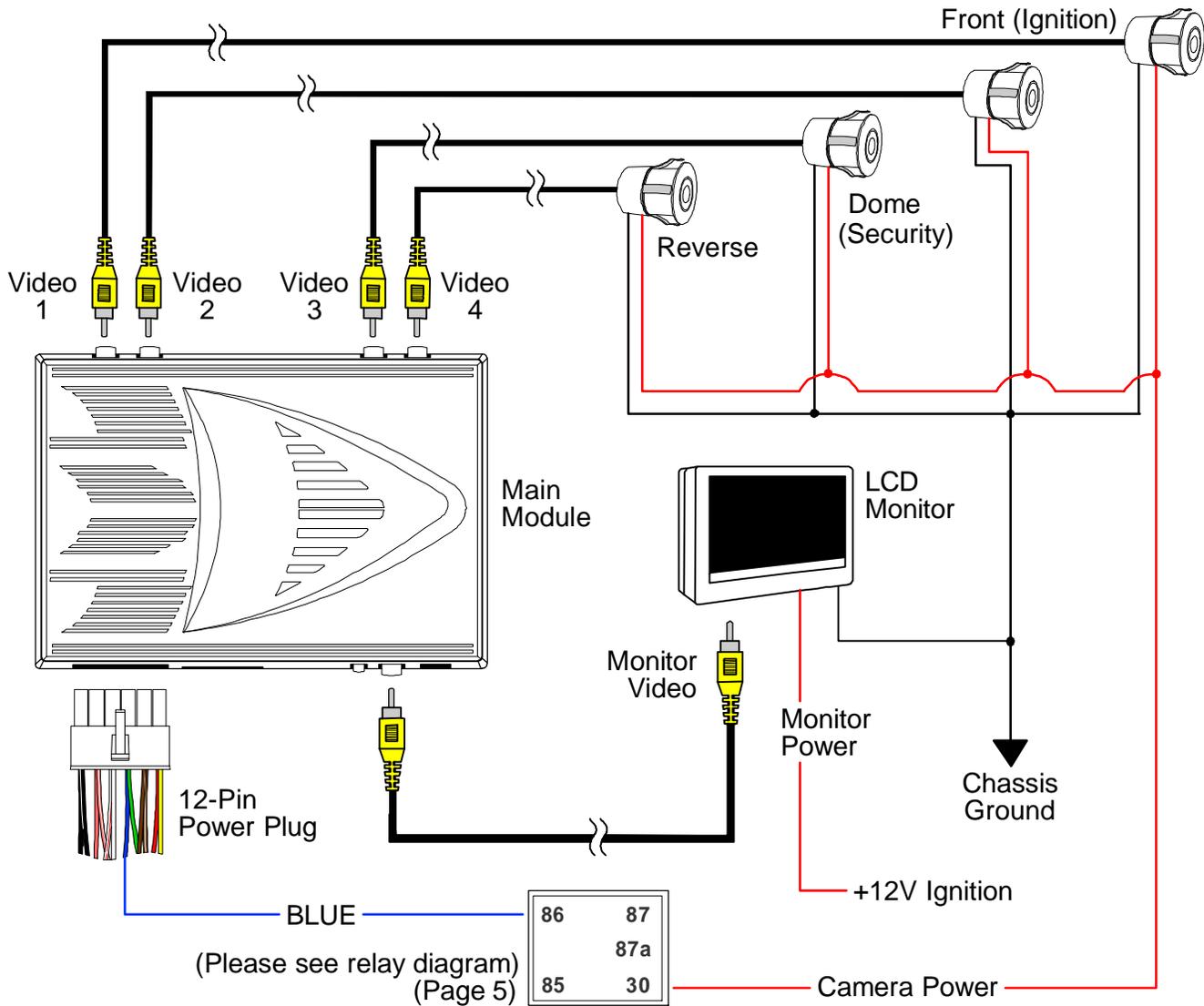
Select model SecurView™ cameras will also have a programmable parking line feature. This is very useful when using a camera in the front or rear of the vehicle. The parking lines are distance guides programmed into the camera sensor that will display when the camera is on and help the driver accurately judge the distance on the front or rear of the vehicle depending on where the camera is mounted.

Cameras are **NOT INCLUDED** with the UBB-4.CQ system and will have to be purchased separately.

# INSTALLATION

## CAMERA & MONITOR WIRING:

**FIGURE 12**



1. Connect power wires from all 4 cameras to the Blue 200mA power output wire from 12 pin power connector of the UBB-4.CQ system using a relay. **(See FIGURE 12)** This way when the system is powered on either by the Ignition (Red) wire or the Dome Light (Brown or Brown/White) wires of the system, all 4 cameras will activate and begin recording.

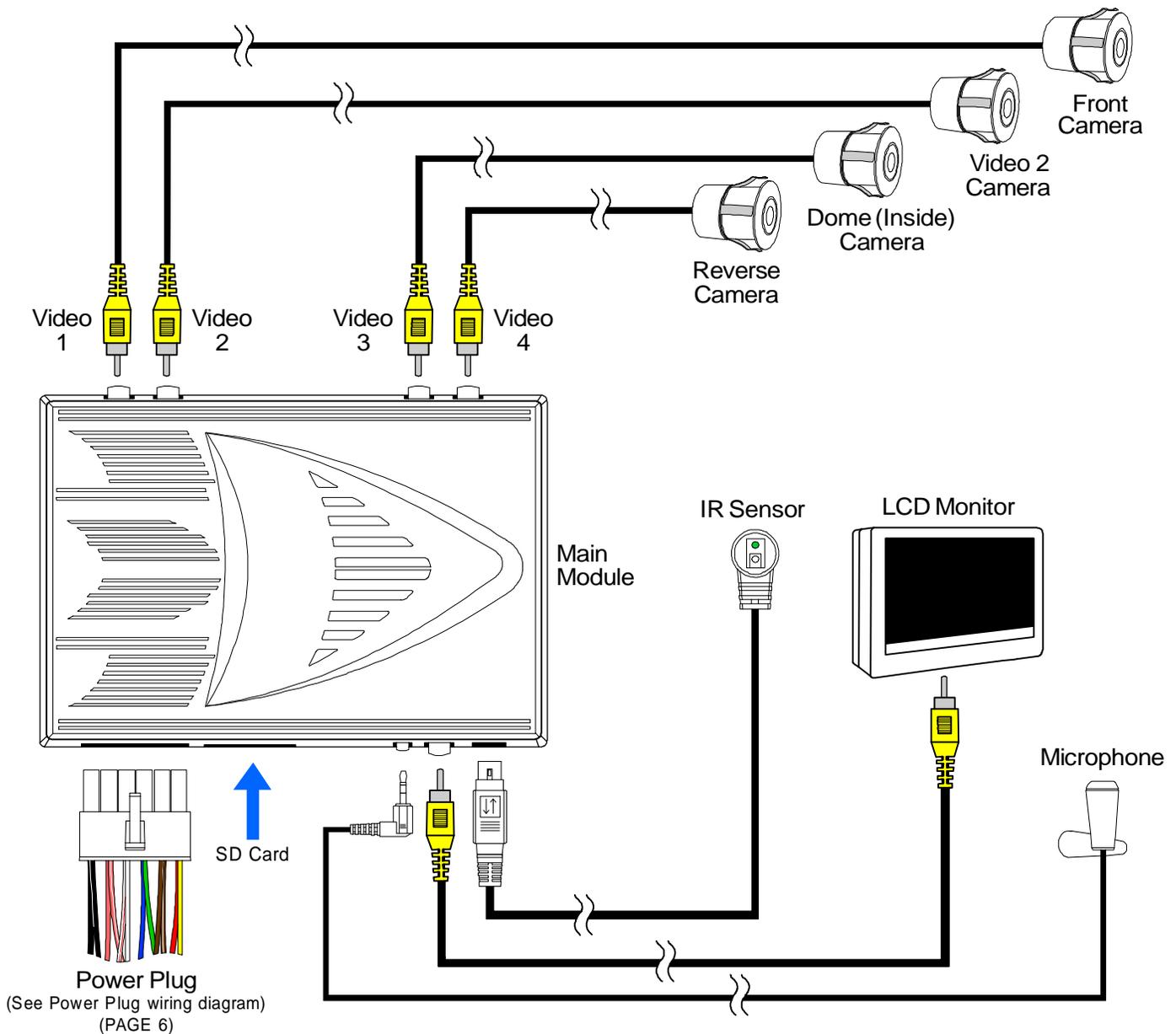
**NOTE:** Please make sure to see the specific wiring instruction for the camera power relay on page 5 of this manual. Failure to install the relay will cause damage to the DVR system

2. Connect the power wire from the LCD monitor to a +12V ignition source. This way when the ignition is turned on the monitor will power up and start viewing the camera(s) when the DVR system is activated. **(See FIGURE 12)**
3. Connect all ground wires of the camera(s) and monitor to ground. **(See FIGURE 12)**

# INSTALLATION

## SYSTEM OVERVIEW:

**FIGURE 13**



**FIGURE 13** is a general overview of how all of the hardware plugs into the system once the installation is complete. All hardware is included except for the camera(s) and LCD monitor which is sold separately. The system will automatically detect how many cameras are plugged into the system and will display them accordingly on the monitor.

This DVR system can also be integrated with any aftermarket security system for extra protection. This way if the shock sensor of the security system goes off, the unit will activate and start recording. The system will also begin recording if an on-board remote start system is activated and the ignition turns on.

# **UBB-4.CQ**

## **OPERATING INSTRUCTIONS**



**CONGRATULATIONS** on your choice of a Mobile DVR™ Vehicle Black Box quad DVR system by Crimestopper Security Products Inc. This section of the manual contains the information necessary for operating your UBB-4.CQ system. If any questions arise, contact your installation dealer or Crimestopper Security Products Inc.

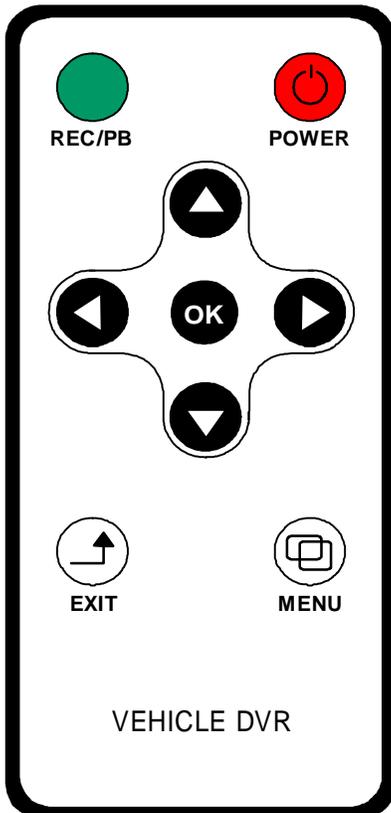
CRIMESTOPPER SECURITY PRODUCTS, INC.  
1770 S. TAPO STREET, SIMI VALLEY, CA. 93063

PHONE: 800-998-6880  
FAX: 805-581-9500  
[www.crimestopper.com](http://www.crimestopper.com)

# OPERATION

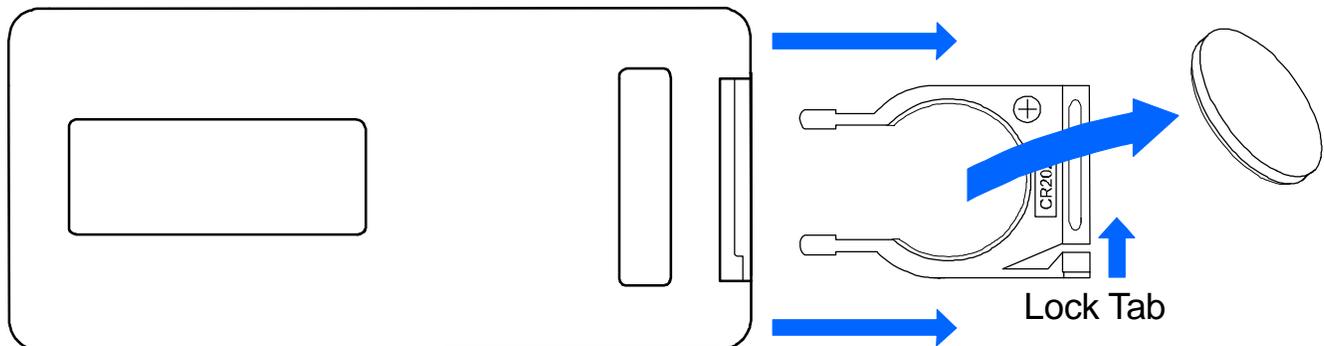
## USING THE REMOTE:

The UBB-4.CQ system can be setup by using the hand-held remote control and IR sensor that is included with the system. The remote will communicate with the system through the IR sensor. You can navigate through all of the system menus and change any of the settings using the different buttons on the remote. The remote will also allow you to easily switch the system back and forth between Recording Mode and Playback Mode.



BUTTON	FUNCTION DESCRIPTION
POWER	Toggle system power On/Off
MENU	Press to enter system settings menu
EXIT	Press to exit system settings menu
OK	In setup menu, press to confirm option selection and enter option sub-selection menu
REC/PB	Switches between record and playback mode
▲▼	In setup menu, controls up/down select operation In normal operation, controls zoom-in/zoom-out of selected video input
◀▶	In setup menu, controls left/right select operation

## REPLACING THE REMOTE BATTERY:

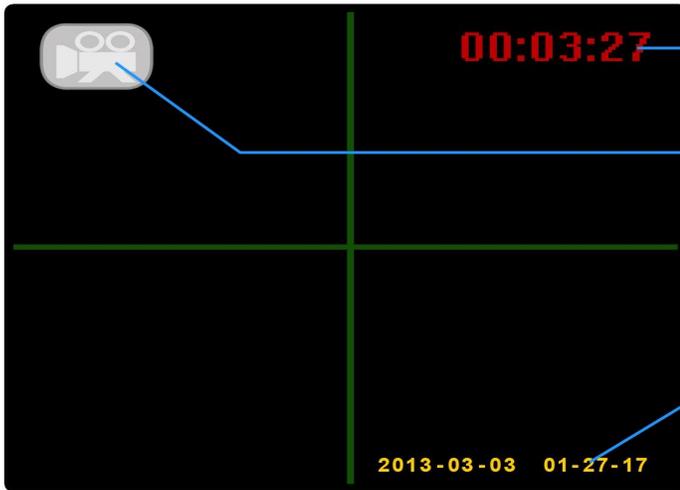


Slide the lock tab sideways and then pull outward to remove the battery tray. The remote uses a CR2025 battery to operate. Insert the battery back into place. There is a + symbol on the tray to indicate that the positive side of the battery faces that direction. Push the battery tray back into the remote until you hear it click and lock into place.

# OPERATION

## SCREEN ICONS:

### RECORDING MODE

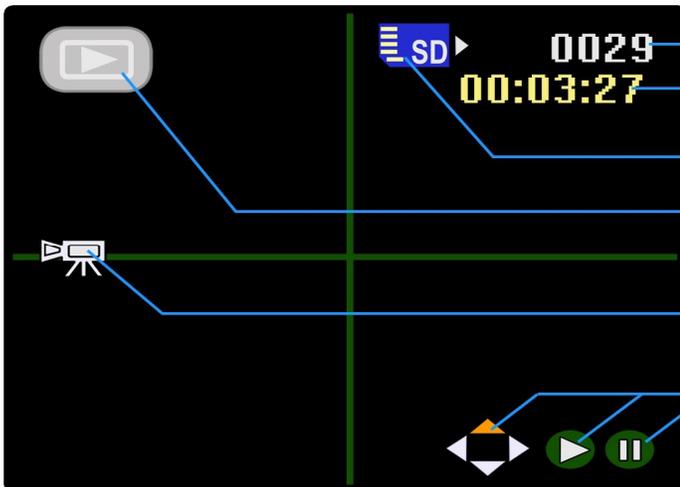


Recording Time

Record Mode icon

Time & Date Stamp

### PLAYBACK MODE



Video File Number

File Record Time

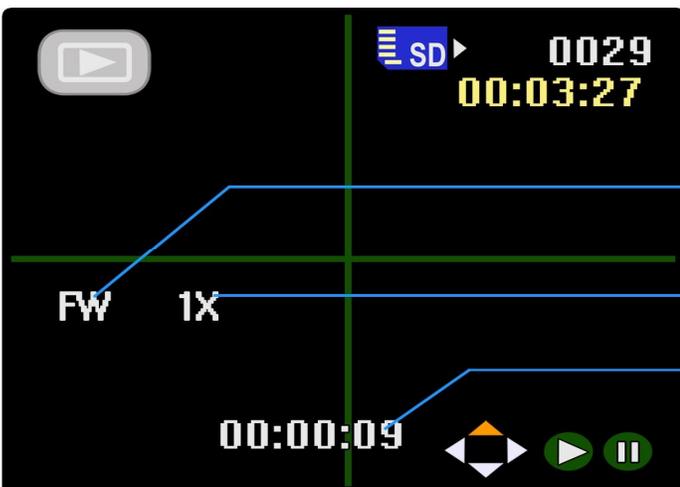
SD Card Read icon

Playback Mode icon

Preview Mode icon

Playback Control

### PLAYBACK MODE



Video Playback Direction

Video Playback Speed

Video File Playback Elapsed Time

# OPERATION

## RECORD & PLAYBACK MODES:

The UBB-4.CQ system will automatically begin recording when the ignition is turned on or the door is opened. If the ignition is on, the LCD monitor will activate and display the “Recording Mode” screen. You can stop the Recording Mode and enter “Playback Mode” at anytime by pressing the green **REC/PB** button on the remote. If you wish to exit Playback Mode and resume recording, press the **REC/PB** button again on the remote.

### RECORDING MODE:

When the system is activated, it will automatically enter Recording Mode and display all cameras on the LCD monitor. A camera icon will appear in the upper left corner of the screen to tell you the system is recording. The recording interval time will also be displayed in red in the upper right corner of the screen as it counts up. The Time and Date will be displayed in the lower right corner of the screen and will be saved on each recorded file. Recording mode will continue until the system is powered down (Ignition off or door closed) or by pressing the green **REC/PB** button on the remote.



RECORD MODE SCREEN

In Recording Mode, you can zoom in and out on the recordings by pressing the **▲▼** buttons on the remote. A small distance meter will appear on the right side of the screen and the image will begin to zoom in and out. The zooming effect will also be saved to the recording and stored on the SD card so when you are reviewing the recordings, you will be able to see the zooming effect.

**NOTE:** *The zooming effect will be reset once the system is powered down (Ignition off or door circuit opened and closed)*



ZOOMING FEATURE

When Recording Mode is activated, the system will automatically detect how many cameras are plugged in and display them accordingly on the LCD monitor. (Please see the SCREEN STRUCTURE section of this manual on page 42). All cameras will be activated by the ignition circuit or the door trigger circuit. The reverse camera (VIDEO 4) circuit is the only camera that will display by itself when the vehicle is shifted into reverse. Once the vehicle is shifted back into drive, the rest of the cameras will be displayed again on the LCD monitor. All recordings are stored on the system's SD card with the Time and Date stamp and can be viewed at anytime by pressing the **REC/PB** button on the remote.

# OPERATION

## RECORD & PLAYBACK MODES: (Continued)

### PLAYBACK MODE:

Press the green **REC/PB** button on the remote to enter Playback Mode. Once on this screen, you will see other icons appear. The first icon you will notice is the Playback icon appears in the upper left corner where the camera icon used to be. This is to let you know that you are in Playback Mode. You will also see a File Number and File Recording Time appear in the upper right corner. This represents the latest recording the system has just completed. At this point you can either stay on this recording or you can cycle through the previous recordings by using the ◀▶ buttons on the remote and you will notice the File Number and File Recording Time will change as you cycle through them. (Screen 1)



PLAYBACK SCREEN (1)

A set of Playback Controls will appear at the bottom right corner of the screen showing *PLAY* and *PAUSE*. If you press the ▲ button on the remote, the recording will begin playback. Pressing the ▲ button again will pause the recording. The blue SD Card icon in the upper right corner is to let you know that the SD card is being accessed by Playback Mode and that it is working properly. The Preview Mode Icon will only appear when cycling through the recordings. This is to let you know that you are “Previewing” the recordings and not actually playing them yet. (Screen 1)



PLAYBACK SCREEN (2)

When the recordings are being viewed in Playback mode (Screen 2), you will notice that a small counting-timer icon appears in the lower center of the screen. This displays the elapsed time of the recorded file as it is played back. You will also notice that a Video Playback Speed and Direction icon appear where the Preview Mode icon used to be. These are useful in case you have a large file and you want to fast forward or rewind to a specific part of the recording. Pressing the ◀▶ buttons on the remote will allow you to fast forward or rewind the recording and you will notice the direction icon will change between *FW* (Forward) or *BW* (Backward) and the speed icon will change between 1X, 2X, 4X and 8X depending on how fast you want to skip through the recording. (See Below)



# OPERATION

## THE MENUS:

The UBB-4.CQ system has three separate menu pages; Video (Record), Play (Playback) and Setup. All three menus have different features that can be accessed for different features and settings of the system. The “Video” menu can only be accessed while in Recording Mode. The “Play” menu can only be accessed while in Playback Mode and the “Setup” menu can be accessed from either Record or Playback modes.

**NOTE:** All Recording and Playback function will automatically stop when any of the system’s menus are accessed.

### VIDEO MENU:

This menu will allow you to access recording features such as: Video Quality, Audio Settings and Time & Date Stamp adjustments.

- While in Recording Mode, press the **MENU** button on the remote to pull up the Video Menu
- Use the **▲▼** buttons to navigate through the menu options
- Press the **OK** button to access the selected option



VIDEO MENU

### PLAY MENU:

This menu will allow you to delete or save specified video files as well as access a full library of all recordings.

- Press the **REC/PB** button on the remote to enter Playback Mode.
- Press the **MENU** button to pull up the Play Menu
- Use the **▲▼** buttons to navigate through the menu options
- Press the **OK** button to access the selected option



PLAY MENU

### SETUP MENU:

This is the main menu of the system and will allow you to access all of the system settings such as: SD Card Format, Language settings, Time & Date settings, etc.

- Press the **MENU** button on the remote in either Recording Mode or Playback Mode.
- Press the **▶** button to pull up the Setup Menu.
- Use the **▲▼** buttons to navigate through the menu options
- Press the **OK** button to access the selected option

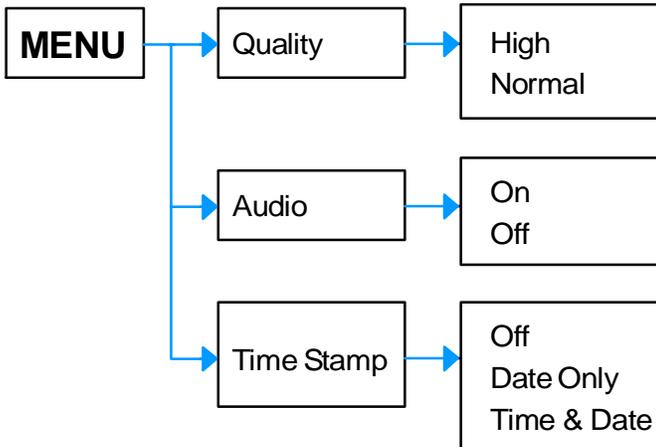


SETUP MENU

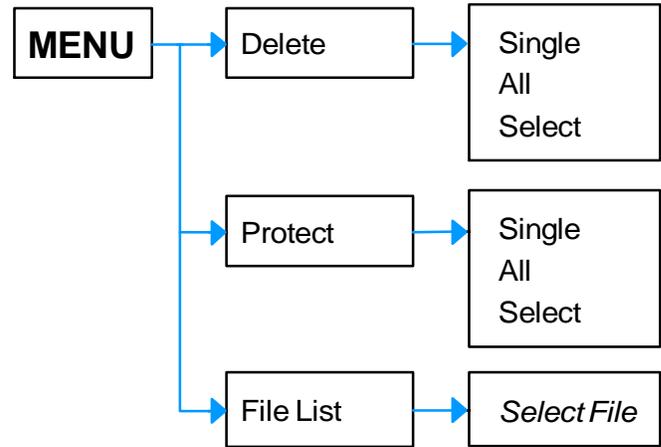
# OPERATION

## SYSTEM MENU STRUCTURE:

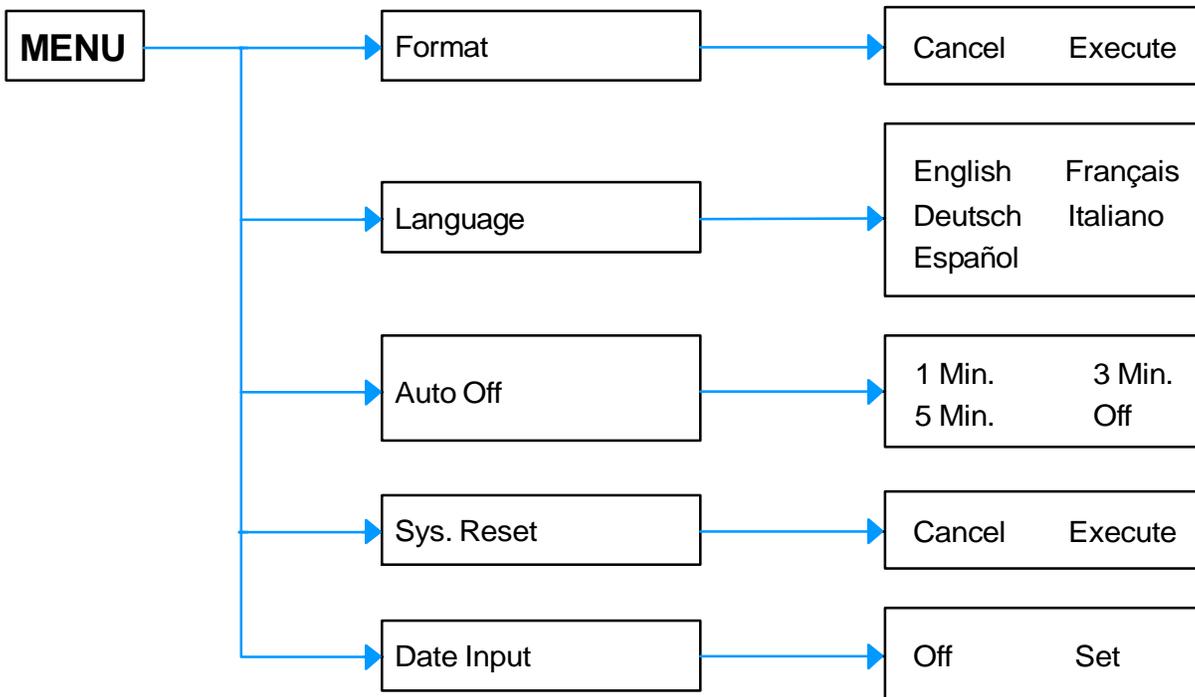
### RECORD MENU



### PLAYBACK MENU



### SETUP MENU

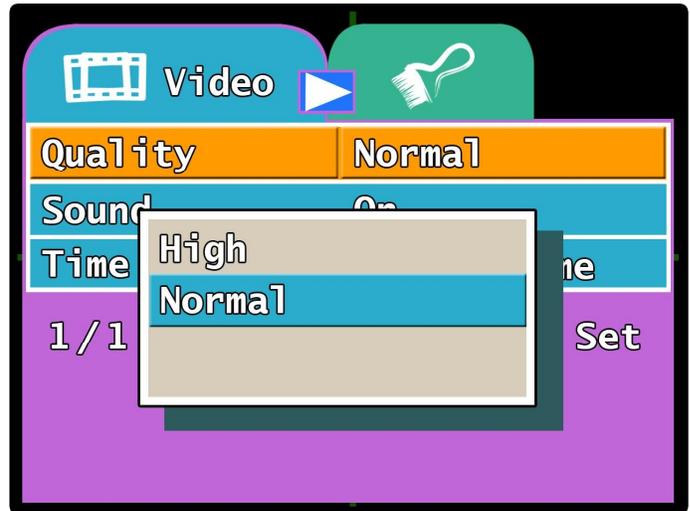
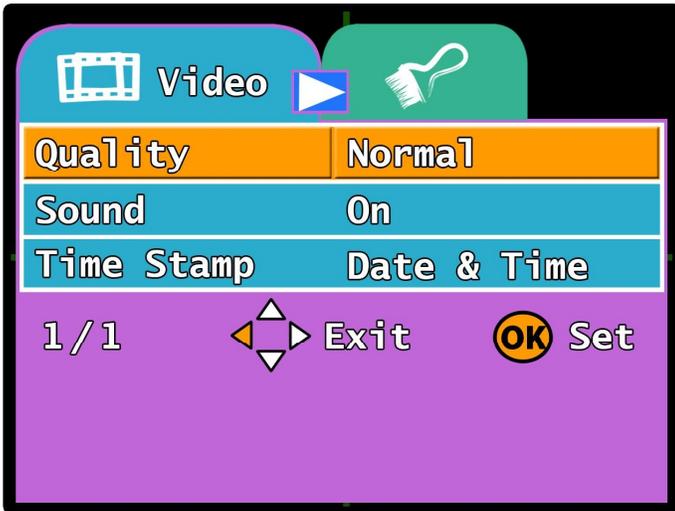


The diagram above shows the three menu structures for the UBB-4.CQ DVR system. When you enter the setup menus using the hand-held remote, this is the order of all of the system settings that you can expect to see. It has everything that you will need including time and date settings, recording time settings, SD card formatting and even the playback options for your recordings.

**WARNING:** Although you can access the menus at any time as long as the ignition is on, please be very cautious and **DO NOT** use the remote while driving. Please make sure that the vehicle is stopped and in park before accessing the DVR menus. Failure to pay attention to the road while driving may cause injury to other drivers and pedestrians.

# OPERATION

## VIDEO MENU - Quality:



This option changes the video recording quality of the UBB-4.CQ system. If the *HIGH* option is selected, the system will reduce the H.264 compression rate and make the video quality better and much higher resolution. However, doing this will cause the recording time to reduce as well making shorter video files. In the *NORMAL* option, the system can record around 6 minutes each video file. With the *HIGH* option selected, the system will record around 4 minutes each file. The default option is set to *NORMAL*

1. While in "Recording Mode", Press the **MENU** button on the remote to enter the VIDEO Menu.
2. The "Quality" option is the first option selected in the menu.
3. Press the **OK** button to enter the "Quality" feature setting. Use the **▲ ▼** buttons to select either the *NORMAL* or *HIGH* option. Press the **OK** button to select the option you wish to change to.
4. The system will automatically change the setting and return you to the VIDEO menu

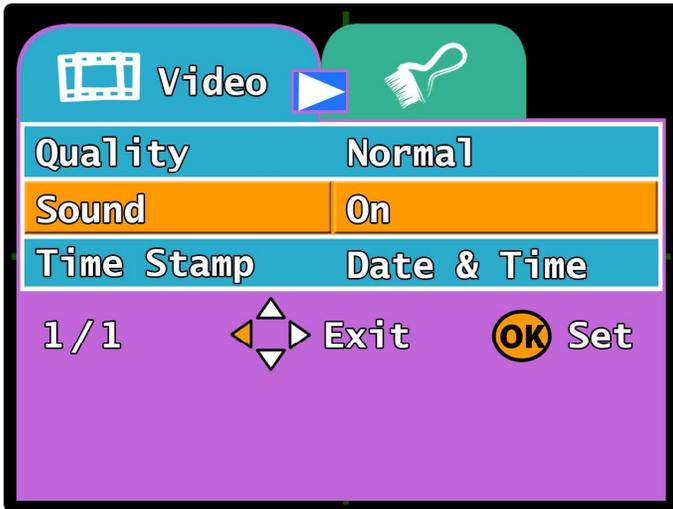
**NOTE:** You may press the **EXIT** button at anytime on the remote to exit the menu settings if you do not wish to change any of the options. Exiting the menu will not change any of the settings on the system.

**NOTE:** Recording in the Standard or "Normal" mode will allow you to store a lot more recordings onto the SD card due to the compression of the video files. However, this will also make the video quality a little lower than the High-Definition or "High" mode. In High mode, the Video quality will be much higher but you will run out of space on the SD card much faster.

**EXAMPLE:** *NORMAL MODE* - 35 minute recording = 260MB  
*HIGH-DEF MODE* - 4 minute recording = 260MB

# OPERATION

## VIDEO MENU - Sound:



This option will activate or deactivate the system's plug-in microphone to turn audio recording on or off. Audio recording is very useful in case there is a break-in on vehicle or if the vehicle is stolen, the system's microphone can record any conversations or sounds inside the vehicle. Leaving this option *ON* will allow audio recording inside the vehicle whenever the system is activated. If this option is turned *OFF*, the microphone input will be shut off and audio recording will be deactivated. The default option is *ON*.

1. While in "Recording Mode", Press the **MENU** button on the remote to enter the VIDEO Menu.
2. Press the ▼ button on the remote to select the "Sound" option.
3. Press the **OK** button to enter the "Sound" feature setting. Use the ▲ ▼ buttons to select either the *ON* or *OFF* option. Press the **OK** button to select the option you wish to change to.
4. The system will automatically change the setting and return you to the VIDEO menu

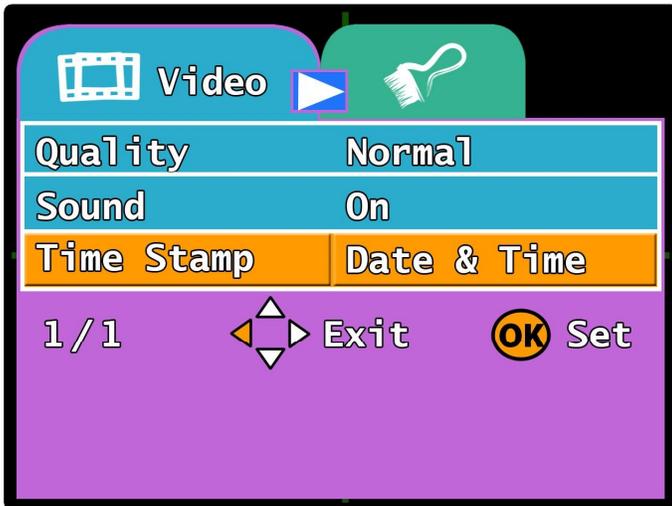
**NOTE:** You may press the **EXIT** button at anytime on the remote to exit the menu settings if you do not wish to change any of the options. Exiting the menu will not change any of the settings on the system.

*If the system's microphone is not plugged in, then there will be no audio recording at all and turning this option on or off will have no effect.*

*Audio recording will increase the overall video recording file size when they are saved to the system's SD card.*

# OPERATION

## VIDEO MENU – Time Stamp:



This option controls the Time & Date stamp that is recorded onto all of the system's video files when the recordings take place. If this option is turned *OFF*, the Time and Date will not be displayed on any of the recorded video files and will not be displayed on the LCD monitor when the system is in Record Mode. If the *DATE ONLY* option is selected, then the date (yyyy/mm/dd) will be displayed at the bottom of each video file. If the *DATE & TIME* option is selected, then both the time and date will be displayed at the bottom of each recorded video file. The default option is *DATE & TIME*.



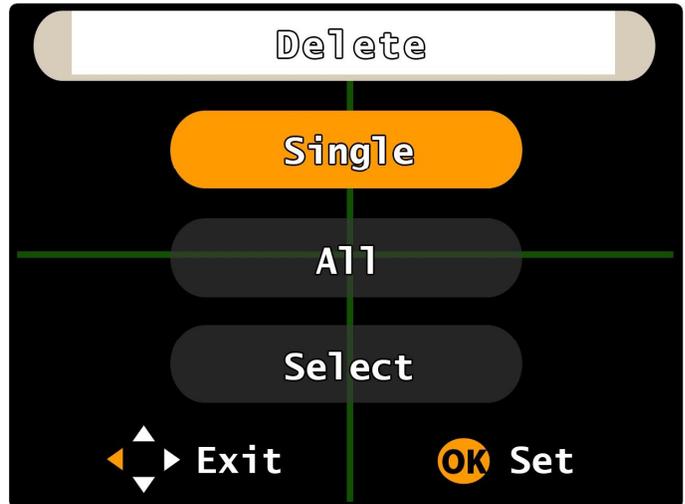
*The Time & Date stamp is recorded at the bottom right corner on every video file*

1. While in "Recording Mode", Press the **MENU** button on the remote to enter the VIDEO Menu.
2. Press the ▼ button on the remote twice to select the "Time Stamp" option.
3. Press the **OK** button to enter the "Time Stamp" feature setting. Use the ▲ ▼ buttons to select either the *OFF*, *DATE ONLY* or *TIME & DATE* option. Press the **OK** button to select the option you wish to change to.
4. The system will automatically change the setting and return you to the VIDEO menu

**NOTE:** You may press the **EXIT** button at anytime on the remote to exit the menu settings if you do not wish to change any of the options. Exiting the menu will not change any of the settings on the system.

# OPERATION

## PLAY MENU - Delete:



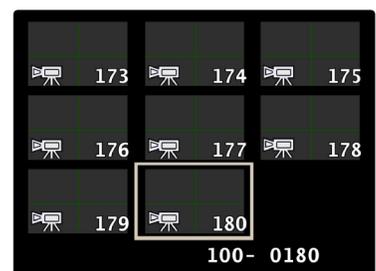
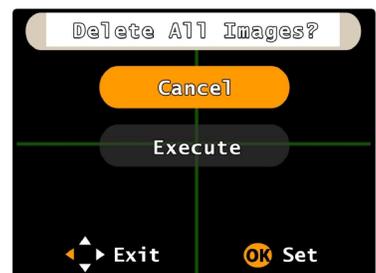
This option will allow you to delete any of all of the recorded video files. There are three options under the Delete feature: *SINGLE*, *ALL* and *SELECT*. Choosing the *SINGLE* option will allow you to delete the most current recorded video file. Choosing the *ALL* option will allow you to delete all recorded video files from the SD card. Choosing the *SELECT* option will allow you to select which video file you want to delete.

1. While in "Playback Mode", Press the **MENU** button on the remote to enter the PLAY Menu.
2. The "Delete" option is the first option selected in the menu.
3. Press the **OK** button to enter the "Delete" feature setting. Use the **▲▼** buttons to select either the *SINGLE*, *ALL* or *SELECT* option. Press the **OK** button to select the option you wish to change to. (You can also press **EXIT** to return to the Play Menu)

**NOTE:** If you choose *SINGLE*, the system will automatically delete the most current recorded video file

If you choose *ALL*, the system will prompt you to Cancel or Execute. If you choose to "Execute" the system will delete all recorded files from the SD card. Choosing "Cancel" will take you back to the previous menu. →

If you choose *SELECT*, the system will take you to a selection menu that displays a list of all of the recorded files. You can use the **▲▼◀▶** buttons to navigate through the recordings. Press the **OK** button to delete the selected file. →



4. Press **EXIT** on the remote and the system will update the setting and return you back to the PLAY menu.

# OPERATION

## PLAY MENU - Protect:



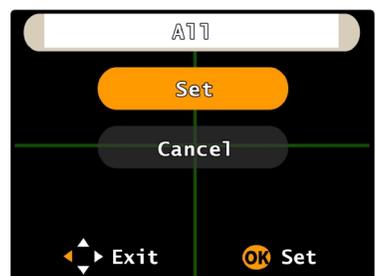
This option will allow you to Save or “Protect” any or all of the recorded video files and prevent them from being deleted even when the system is continuously recording. There are three options under the Protect feature: *SINGLE*, *ALL* and *SELECT*.

1. While in “Playback Mode”, Press the **MENU** button on the remote to enter the PLAY Menu. Press the **▼** button to select the “Protect” option and press **OK** to enter the option.
2. Use the **▲▼** buttons to select either the *SINGLE*, *ALL* or *SELECT* option. Press the **OK** button to select the option. (You can also press **EXIT** to return to the Play Menu)

**NOTE:** If you choose *SINGLE*, the system will prompt you to Set or Cancel. If you choose “Set” the system will protect the most current recorded video file. Choosing “Cancel” will take you back to the previous menu.

If you choose *ALL*, the system will prompt you to Set or Cancel. If you choose “Set” the system will protect all recorded files on the SD card. Choosing “Cancel” will take you back to the previous menu. →

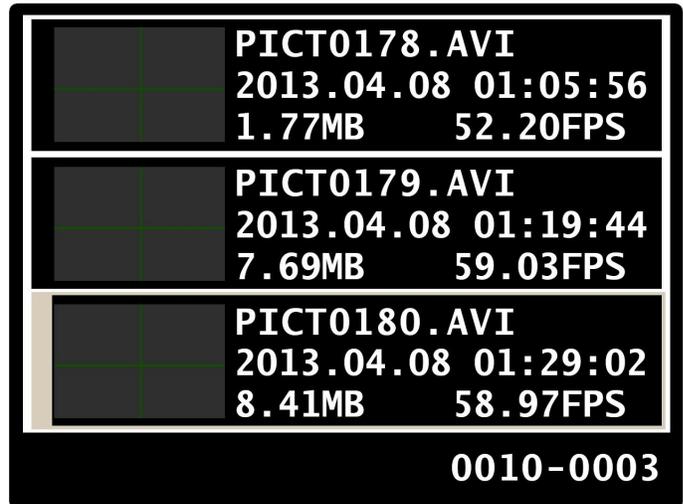
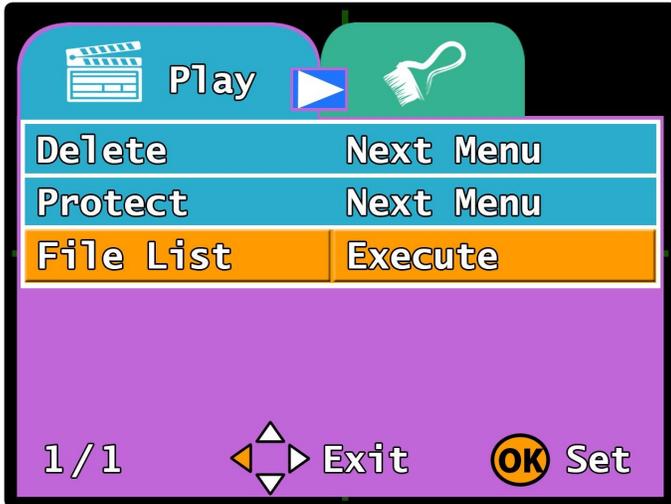
If you choose *SELECT*, the system will take you to a selection menu that displays a list of all of the recorded files. You can use the **▲▼◀▶** buttons to navigate through the recordings. Press the **OK** button to protect the selected file. (A red Padlock icon will appear on the left side of the screen to show the file is protected) →



3. Press **EXIT** on the remote and the system will update the setting and return you back to the PLAY menu.

# OPERATION

## PLAY MENU - File List:



This option will allow you to select a specified video file for playback. Once the option is selected, the system will go into a preview list and allow you to look through every individual recorded video file. Each file will have its own specified time and date stamp to help you locate which file you are looking for. Once you locate the video file you are looking for, you can select it and the file will begin playback.

1. While in “Playback Mode”, Press the **MENU** button on the remote to enter the PLAY Menu.
2. Press the ▼ button twice on the remote to select the “File List” option.
3. Press the **OK** button to enter the “File List” feature setting. Use the ▲ ▼ buttons to navigate through the file list and find the specific video file you are looking for. Once you’ve located the specific file, press the **OK** button to select the file and begin playback.

**NOTE:** Once playback has begun, you can use the ▲ ▼ ◀ ▶ buttons to operate the playback controls. (Please see the “Playback Mode” section of this manual on Page 21)

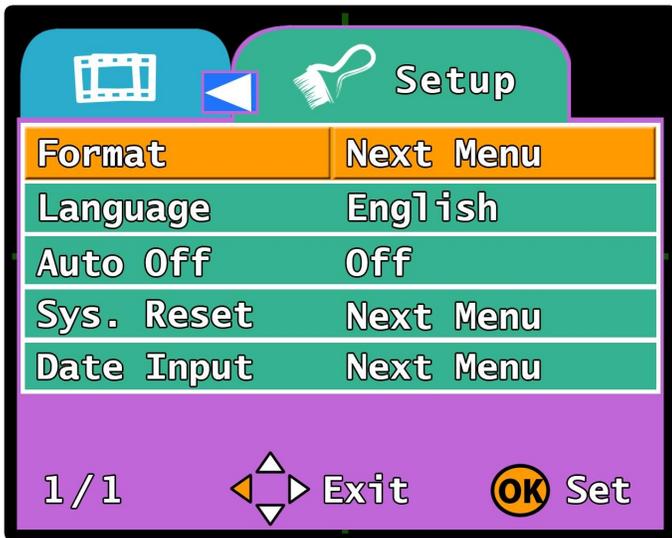
*Each recorded video file will have a Time & Date stamp and a small thumbnail image in the list to help you navigate and find the specific file you are looking for.*

*You may press the **EXIT** button at anytime on the remote to exit the menu settings if you do not wish to change any of the options. Exiting the menu will not change any of the settings on the system.*

4. Once the video playback is complete, you can the **EXIT** button and the system will take you back to the File List menu

# OPERATION

## SETUP MENU - Format:



This option allows you to Format the SD Card to FAT32 format and allow the UBB-4.CQ to store more recordings onto the SD card.

1. While in “Playback Mode” or “Record Mode”, Press the **MENU** button on the remote to enter the VIDEO or PLAY menu. Press the ► button to switch to the SETUP menu.
2. The “Format” option is the first option selected in the menu.
3. Press the **OK** button to enter the “Format” feature setting. Use the ▲ ▼ buttons to select Cancel or Execute. Press the **OK** button to set the option.

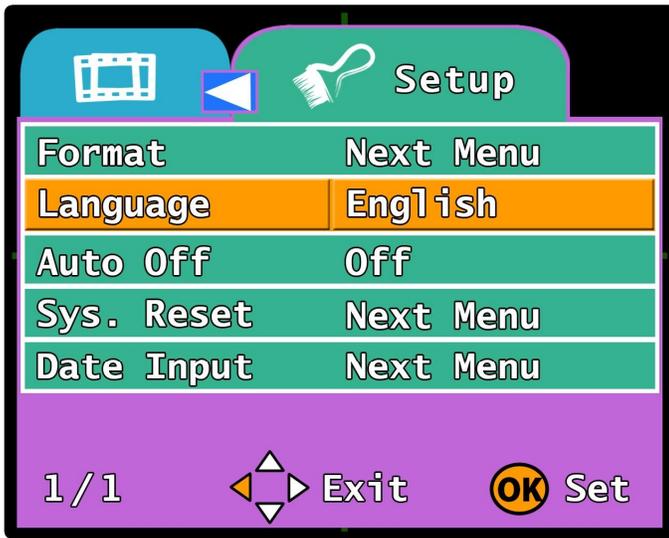
**NOTE:** *If you choose “Execute” the system will automatically erase all files on the SD card and reformat the SD card for better storage capacity. Choosing “Cancel” will take you back to the SETUP menu.*

*Once the Execute function is chosen and the system reformats the SD card, all files and information that was on the SD card will be erased and cannot be retrieved again. Please make sure to double check any files on the SD card that you wish to save before choosing this option.*

4. Once the reformatting is complete, the system will automatically take you back to the SETUP menu. You can press the **EXIT** button to exit the setup menu and go back to the Playback or Recording screens.

# OPERATION

## SETUP MENU - Language:



This option will allow you to select which language you want the UBB-4.CQ system to be displayed in. You can choose from one of nine different languages including: English, French, Dutch, Italian, Spanish, Portuguese, Chinese (Traditional), Chinese (Simplified) and Japanese.

1. While in “Playback Mode” or “Record Mode”, Press the **MENU** button on the remote to enter the VIDEO or PLAY menu. Press the ► button to switch to the SETUP menu.
2. Press the ▼ button to select the “Language” option.
3. Press the **OK** button to enter the “Language” feature setting. Use the ▲ ▼ buttons to navigate through the language options. Press the **OK** button to select the language that you wish to change to. (You can also press **EXIT** to return to the **SETUP** Menu)

**NOTE:** Once the language is selected, all system menus will be automatically changed to that specified language. Languages can be switched at anytime.



4. Once the specified language is set, the system will automatically update and return you back to the SETUP menu.

# OPERATION

## SETUP MENU - Auto Off:



This option allows you to select how long the system will record for after the door is opened and closed when the ignition is on.

When the ignition is turned on and the door is opened, the system will automatically switch to the interior camera (VIDEO 3) and begin recording. After the door is closed, the system will continue to record for the specified amount of time. There are four different settings for this time interval: 1 Minute, 3 Minutes, 5 Minutes and Off. The Default setting is Off.

1. While in "Playback Mode" or "Record Mode", Press the **MENU** button on the remote to enter the VIDEO or PLAY menu. Press the ► button to switch to the SETUP menu.
2. Press the ▼ button twice to select the "Auto Off" option.
3. Press the **OK** button to enter the "Auto Off" feature setting. Use the ▲ ▼ buttons to select between 1 Minute, 3 Minutes, 5 Minutes and Off. Press the **OK** button to set the option.

**NOTE:** *If you choose "Off" the system will record for 10 seconds after the door is closed and then power down to standby mode.*

4. Once the selection is complete, the system will automatically take you back to the SETUP menu. You can press the **EXIT** button to exit the setup menu and go back to the Playback or Recording screens.

# OPERATION

## SETUP MENU - Sys. Reset:



This option allows you to reset the UBB-4.CQ system back to all factory default settings. Once this option is selected, all options that have been changed will be reset and all recorded video files will be erased from the SD card.

1. While in "Playback Mode" or "Record Mode", Press the **MENU** button on the remote to enter the VIDEO or PLAY menu. Press the ► button to switch to the SETUP menu.
2. Press the ▼ button three times to select the "Sys. Reset" option.
3. Press the **OK** button to enter the "Sys. Reset" feature setting. Use the ▲▼ buttons to select between Execute and Cancel.

**NOTE:** *If you choose "Execute" the system automatically reset all options to their default values. Any options that have been changed will be reset and all recorded video files will be erased from the SD card. Please make sure to check all of the recordings before you reset the system to make sure that you will not erase any recordings you wish to keep. If you select "Cancel" the system will take you back to the SETUP menu.*

4. Once the reset is complete, the system will automatically take you back to "Record Mode" and begin recording immediately.

# OPERATION

## SETUP MENU - Date Input:



This option allows you to set the Time & Date stamp of the UBB-4.CQ system. You can also select the order of how you want the date to be displayed (Ex. YYYY/MM/DD, MM/DD/YYYY or DD/MM/YYYY). The Time & Date stamp serves two important functions; One, it lets you know the time and date that the recording event took place. And two, it makes it easier to cycle through the recordings in Playback Mode.

1. While in "Playback Mode" or "Record Mode", Press the **MENU** button on the remote to enter the VIDEO or PLAY menu. Press the ► button to switch to the SETUP menu.
2. Press the ▼ button four times to select the "Date Input" option.
3. Press the OK button to enter the "Date Input" option and then use the ▲▼ buttons to select Set or Off. Choosing "Set" will take you into the Date/Time setting screen to change the Time & Date stamp. Choosing "Off" will turn the Time & Date stamp completely off.

**NOTE:** There are three lines under the Date Input setting screen. The first line is the date display type (YYYY / MM / DD), the second line is the date setting and the third line is the time setting.

Press the ▲▼ buttons to change the settings of the current line and then press the ◀▶ buttons to move to cursor the previous or next line.



4. Once the Time & Date is set, Press the **OK** button and the system will automatically save the settings take you back the SETUP menu..

# OPERATION

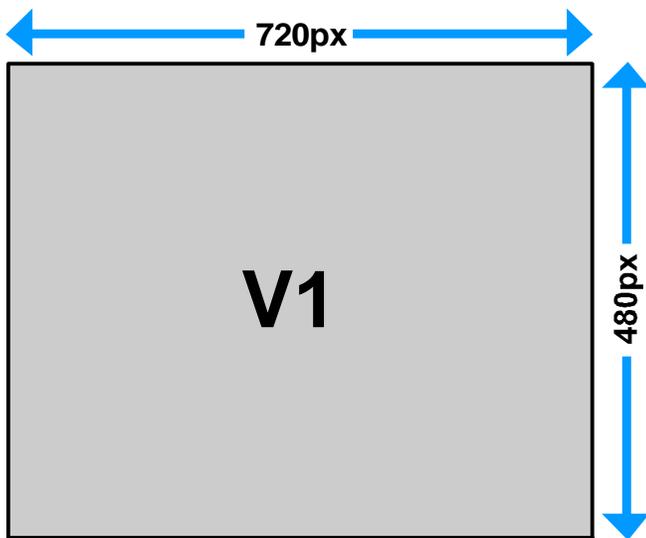
## SCREEN STRUCTURE:

The main display of the UBB-4.CQ system is a standard quad screen. However the system will auto-detect how many cameras are plugged in and adjust the screen accordingly to how many cameras it sees.

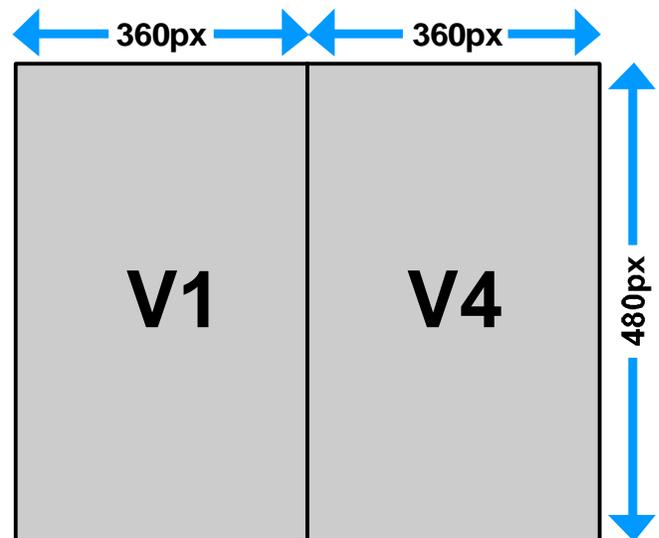
The primary camera (Usually the front camera VIDEO 1) is always the top left screen in 4-camera "quad screen" view, and the left side screen in 3-camera and 2-camera screen views.

If there is only one camera plugged in, whether it is the front, inside or reverse camera, the screen will only display the one camera that the system detects. Once it sees mores cameras plugged in, it will re-adjust the window layout to account for the other cameras.

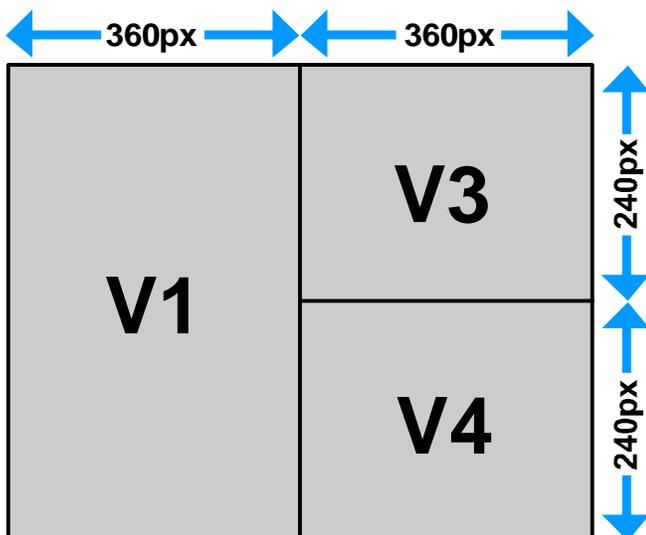
### SCREEN STRUCTURE



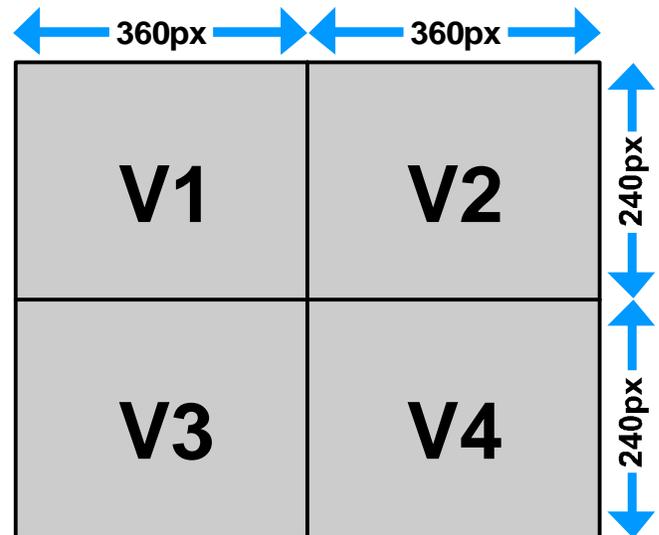
1 VIDEO INPUT



2 VIDEO INPUT



3 VIDEO INPUT



4 VIDEO INPUT

# OPERATION

## SCREEN STRUCTURE: (Continued)

### Door Open without Ignition On:

If the door is opened without the ignition on (Simulating a break-in or normal vehicle entry scenario) the system will automatically switch the security camera (VIDEO 3) to the left or the upper-left primary camera position on the monitor. The screen structure will remain this way depending on how long you have the "Auto Off" time set for (*Between 10 seconds to 5 minutes*). If the ignition is not switched on before the set time interval runs out, then the system will power down. If the ignition is turned on before the time runs out, then the system will switch the front camera (VIDEO 1) back to the primary position.

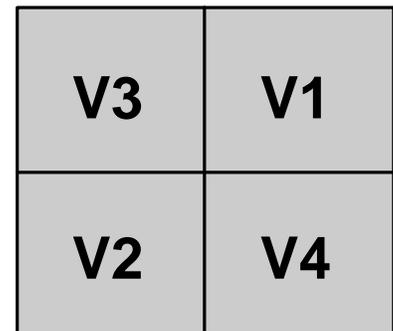
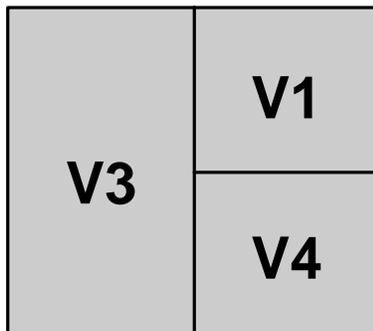
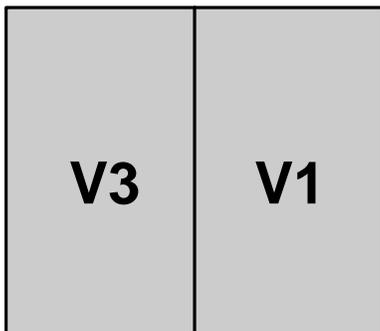
### Ignition On Before Opening Door:

If the door is opened when the ignition is already on (Simulating a passenger pick-up or a remote start scenario) the system will automatically switch the security camera (VIDEO 3) to the left or the upper-left primary camera position on the monitor. The screen structure will remain this way depending on how long you have the "Auto Off" option time set for (*Between 10 seconds to 5 minutes*).

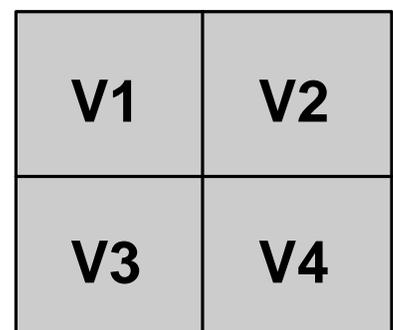
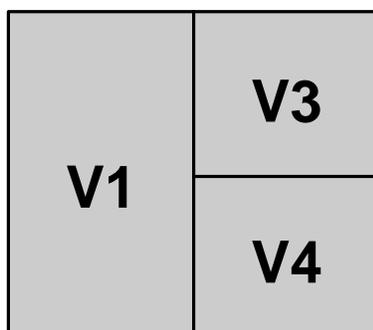
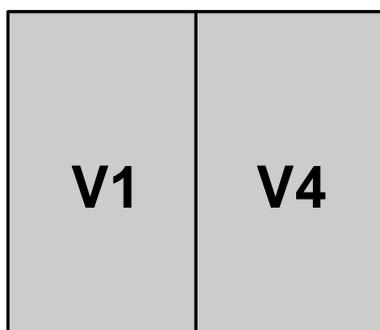
### Ignition Recording:

After the boot up recording is complete, the system will switch the front camera (VIDEO 1) back to the left or upper left primary camera position on the screen and begin recording immediately as long as the ignition is on. A new recorded file will be generated every 5 minutes and stored on the SD card with a time and date stamp.

### DOOR OPEN RECORDING (Ignition On/Off)



### IGNITION RECORDING



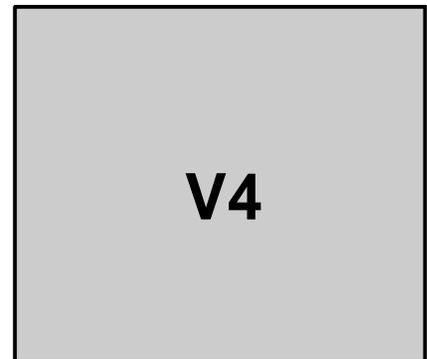
# OPERATION

## SCREEN STRUCTURE: (Continued)

### EVENT RECORDING:

1. Door Open: This event will switch the security camera (VIDEO 3) to the left or the upper-left primary camera screen and begin recording. The system will continuously generate a new recording file every 5 minutes and store it in the on the SD card with its own time and date stamp.
2. Door Closed: This event will allow the system to record for an additional 10 seconds to 5 minutes (Programmable) after the door is closed and then switch the front camera (VIDEO 1) back to the left or upper-left primary camera position. The system will store the additional recordings on the SD card
3. Reverse Recording: This event will switch the reverse camera (VIDEO 4) to the primary camera screen and begin recording immediately. Every 5 minutes the system will generate a new recording file and store it on the SD card with its own time and date stamp.
4. Reverse Off: This event will allow the system to switch back to the front camera (VIDEO 1) and begin recording immediately

### REVERSE RECORDING



### AUDIO RECORDING:

For audio recording inside the vehicle, the microphone will switch on automatically when the system is activated either by the Ignition, Dome Light or Reverse triggers. The audio data is stored on the same \*.asf file as the video and they are integrated together into one recording so there is no need to activate the audio recording separately from the video recording, the system will activate them both automatically and store it all on the SD card.

### SD CARD MEMORY MANAGEMENT:

The UBB-4.CQ comes included with an 8GB SD card to store the recordings. You can use up to a 32GB SD card if you wish. The system automatically formats the SD card to store the recordings. All recordings are stored in a continuous list format with their own Time & Date Stamp and file size. All recordings are in order from newest to oldest and can be deleted from the SD card either in playback mode from the system itself or from you computer.

**NOTE:** *If the system is activated without the SD card in place, a "CARD ERROR" message will appear on the monitor to let you know*



CARD ERROR SCREEN

## **TROUBLESHOOTING:**

Please read the following helpful tips if you run into any trouble installing this system into the vehicle. These tips may also be useful if the operation of the system is not functioning properly. Please make sure that the system is powered up and working properly before reading through these tips. For normal operation, the unit should activate as soon as the vehicle ignition is turned on. The LCD monitor should power on and any cameras that are plugged into the system should be displayed.

### **SYSTEM DOES NOT TURN ON -or- NO DISPLAY ON MONITOR:**

1. Check the systems main power (Yellow) and ground (Black x2) connections are good. Scrape away any paint or rust on the ground location to make sure it has a good connection. Also, check to make sure the ignition wire (Red) is hooked up properly to an ignition source.
2. Check the power and ground connection of the monitor and each camera. The power for the cameras will be connected to the camera output (Blue) wire on the system's power harness. Make sure this connection is good. The power connection for the monitor should be going to 12 volt ignition.
3. Check the RCA video cables for each camera and make sure they are not spliced or pinched anywhere along the line. Make sure that they are properly connected to the UBB-4.CQ module. Double check the RCA cable from the monitor as well and make sure it is not pinched or spliced either.

### **NOT ALL CAMERAS DISPLAY ON MONITOR:**

1. Check power and ground connections of all cameras and make sure they are connected properly and turning on. If need be, plug the problem camera's RCA into another monitor just to test and make sure the video output of the camera is working properly. This will allow you to find out if there is a problem with the camera itself or the UBB-4.CQ system.
2. Check all RCA connections for the cameras and make sure they are not spliced or pinched and double check to make sure they are plugged in securely to the UBB-4.CQ system.

### **CANNOT ACCESS THE SYSTEM MENU:**

1. The remote does not require any programming to the system and should work right out of the box as long as the IR sensor is plugged into the main module. Make sure the IR sensor has a good connection to the UBB-4.CQ main module and that the cable is not spliced or pinched.
2. The IR sensor may be mounted in a location where it cannot see the IR eye of the remote. Check to make sure the remote can be pointed line-of-sight and the IR sensor and that nothing is blocking it.
3. Check the battery and make sure it is a fresh battery and is installed properly into the remote.

## **TROUBLESHOOTING: (Continued)**

### **NO SOUND ON RECORDINGS:**

1. Double check to make sure that the 3.5mm microphone jack is plugged into the unit correctly and that the cable itself is not pinched or spliced open. Make sure the microphone is in a good mounting location where all sound can be recorded.
2. In the VIDEO menu, check to make sure that the SOUND option is turned on. If this option is off, the microphone out is turned off by the system and there will be no audio recording. (Audio recording is optional and will not inhibit the system from working if this option is off or if the microphone is not plugged in)

## **TECHNICAL SPECIFICATIONS:**

### **SPECIFICATIONS:**

Supply Voltage:	DC 12 Volt
Operational Voltage:	9V ~ 36V
Current Consumption:	Working Mode: 400mA - Standby Mode: 10mA
TV System	NTSC / PAL
Resolution:	QVGA 320 x 240, 30 fps
Video Inputs:	4 RCA (1.0V ± 20m Vp-p, 75 Ohm)
Video Outputs:	1 RCA (1.0V ± 20m Vp-p, 75 Ohm)
Video Encode Method:	MPEG4
Video File Format:	Advanced Systems Format (.asf)
Audio Input:	Microphone (3.5mm headphone jack) stereo line-in
Audio Output:	Stereo line-out
Audio Encode Method:	ADPCM
Audio Sampling:	44100 bps
Storage Temperature:	-4°F - 185°F (-20°C - 85°C)
Operating Temperature:	32°F - 158°F (0°C - 70°C)
Control Module Dimensions (MM):	142 (L) x 101 (W) x 33 (D)

### **DISCLAIMER:**

Under no circumstances shall the manufacturer or distributor of the UBB-4.CQ system be held liable for consequential or incidental damages sustained in connection with the use of the UBB-4.CQ Mobile DVR system. The UBB-4.CQ is designed as a safety enhancement device and is in no way intended as a replacement for rear-view mirrors, side-view mirrors or physically checking the surroundings when backing up, parking or driving the vehicle. Always check surroundings for safety when operating the vehicle! Objects on the monitor are closer than they appear. For the installation, modification of certain parts of the vehicle may be required. It is the sole responsibility of the vehicle owner to check and verify any and all State or Federal Motor vehicle codes with regards to modifications of vehicle bumper or any systems in the vehicle. The manufacturer of the UBB-4.CQ assumes no liability or responsibility whatsoever with regards modifications of the vehicle bumpers or any other equipment in the vehicle.

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**TECHNICAL SUPPORT: (800) 998-6880**

Monday - Friday 8:00am - 4:30pm Pacific Std. Time

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