FLASHBACK**HD**

In-Car Digital Video Recorder

Installation Guide

version 3.3.x

SAFE **SF** FLEET
Law Enforcement

Table of Contents

Installation (cont'd)

Important Safeguards

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates important operating and maintenance instructions.

This symbol indicates un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.

Caution: This system is designed to operate in 12 volt DC negative ground vehicles only. All system components must be operated only when properly connected to the DVR.

Attention: To reduce the risk of electric shock, do not perform any servicing other than that contained in this Installation Guide unless you are qualified to do so. Refer all servicing to qualified personnel.

DO NOT block ventilation openings.

DO NOT allow liquids to enter the DVR or any other component of the FlashbackHD. This could cause electrical shorts, fire, or other damage.

The FlashbackHD should be installed by a qualified technician and must conform to SAE Requirements. Ground wires (black) must be connected to the vehicle's chassis. Never connect ground wires to the vehicle's battery. If your vehicle also has a mobile data computer, make sure that both devices are grounded at the exact same point.

Warning: Airbag Deployment—Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury.

Warning: Seat Removal Precaution—If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment. Failure to heed this warning could result in death or serious injury.

Notice: Drilling Precautions—When drilling holes, check the area in which you are drilling to be sure you do not damage vehicle components. All drilled holes should be deburred and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing.

Introduction

The FlashbackHD is an in-car digital video recorder that is installed inside a patrol car or other police vehicle. The Flashback recorder collects video evidence and stores it temporarily on an SD card until the video can be transmitted to a storage server or PC back at your precinct. The FlashbackHD is part of Mobile-Vision's *Digital Evidence Collection System*. This system is comprised of multiple in-car and back-office components, as described below.

Flashback's **in-car components** include the DVR, DVR monitor, HD camera, Back-seat camera (optional), Bullet cameras (optional), and VoiceLink eXtended wireless microphone (VLX). You may also purchase an optional vehicle crash sensor as well as several other add-ons described in "Optional Equipment" on page 8.

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

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

This installation manual describes how to install the Flashback in a vehicle. For more information on the Flashback's functions, features, and menu options, refer to the *Flashback3 & FlashbackHD User's Guide*. For information on the back office components, refer to the software documentation that came with your digital evidence collection system. For example, if you are using Digital Evidence PRO, see the *DEP User's Guide* and/or *DEP Administrator's Guide*.

Basic Components

Monitor

HD Optical Zoom camera

DVR

Bullet camera (optional)

Backseat camera (optional)

VoiceLink eXtended wireless microphone

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[*]   A hardware component that facilitates data transmission from vehicle to storage server.

Packing List

This list may vary slightly depending on the options your agency has purchased.

- ❒ FlashbackHD digital video recorder with media door keys
- ❒ SD memory card
- ❒ HD Digital zoom camera or 10x HD Optical Zoom camera with mounting arm
- ❒ Monitor console
- ❒ Panavise mounts (2)
- ❒ Standard WiFi/GPS antenna *or* Dual WiFi/GPS antenna
- ❒ Voice eXtended (VLX) wireless microphones with docking stations (2)
- ❒ VLX lapel microphones with docking stations (2)
- ❒ VLX 6-pin modular cable with matching transformer
- ❒ VLX charging station with AC adapter
- ❒ Siren interface module
- ❒ IGN input fuse cable
- ❒ LTS input fuse cable
- ❒ BAT input fuse cable
- ❒ Backseat microphone
- ❒ PDF files: *FlashbackHD Installation Manual* and *Flashback3 & FlashbackHD User's Guide*
- ❒ Mounting components:
  - ▪ (2) mounting blocks
  - ▪ (2) mounting brackets ears–905
  - ▪ (2) mounting brackets ears–820
  - ▪ (2) mounting brackets ears–750
  - ▪ (1) U-mount DVR bracket
  - ▪ (2) L-brackets
  - ▪ (2) 10-32 knobs with washer
  - ▪ (8) M3 x 12 flat head Phillips screws
  - ▪ (4) 6-32 x 3/8 flat head Phillips screws
  - ▪ (4) M3 x 5 flat head Phillips screws
  - ▪ (2) Self drilling ¼ x 1 – ½" hex head screws
  - ▪ Mirror adhesive

NOTE: The Cable Kit that you receive will depend on your mounting configuration. Only use cables supplied by Mobile-Vision. The use of third-party cables is not supported and may adversely affect the operation of your in-car video system.

DVR/Monitor Console Mounting Options

Cable Kit 1 – DVR-Center Console or Glove Box/Monitor–Non-Overhead

❒ Cable, Monitor Console /DVR Adapter—4 FT
❒ Cable, Camera Extension—14 FT
❒ DVR Power & Input Cable—8 FT
❒ Cable, VLX Matching Transformer—10 FT

Cable Kit 2 – DVR-Center Console/Monitor–Overhead

❒ Cable, Monitor Console/DVR Adapter—13 FT
❒ Cable, Camera Extension—14 FT
❒ DVR Power & Input Cable—8 FT
❒ Cable, VLX Matching Transformer—10 FT
❒ Screw, 10-32 3/8", Phillips Pan Head, 4 each
❒ Nut, Hex, 10-32, Nylon Locking, 4 each
❒ Overhead Wing (for designated vehicle)

Cable Kit 3 – DVR-Glove Box/Monitor–Overhead

❒ Cable, Monitor Console/DVR Adapter—8 FT
❒ Cable, Camera Extension—14 FT
❒ DVR Power & Input Cable—8 FT
❒ Cable, VLX Matching Transformer—10 FT
❒ Screw, 10-32 3/8", Phillips Pan Head, 4 each
❒ Nut, Hex, 10-32, Nylon Locking, 4 each
❒ Overhead Wing (for designated vehicle)

Cable Kit 4 – DVR-Trunk Mount/Monitor–Non-Overhead

❒ Cable, Monitor Console/DVR Adapter—22 FT
❒ Cable, Extension, Monitor Console Cable (D)—10 FT
❒ Cable, Monitor Console Monitor Extension (Red Lemo)—10 FT
❒ Cable, Camera Extension—22 FT
❒ DVR Power & Input Cable—18 FT
❒ Cable, VLX Matching Transformer—22 FT

Cable Kit 5 – DVR-Trunk Mount/Monitor–Overhead

❒ Cable, Monitor Console/DVR Adapter—22 FT
❒ Cable, Extension, Monitor Console Cable (D)—10 FT
❒ Cable, Monitor Console Monitor Extension (Red Lemo)—10 FT
❒ Cable, Camera Extension—22 FT
❒ DVR Power & Input Cable—18 FT
❒ Cable, VLX Matching Transformer—22 FT
❒ Screw, 10-32 3/8", Phillips Pan Head, 4 each
❒ Nut, Hex, 10-32, Nylon Locking, 4 each
❒ Overhead Wing (for designated vehicle)

Optional Equipment

Cables

❒ 3-part Breakout Cable (for use with Bullet camera)
❒ Camera Extension Cable—2 FT or 14 FT

Bullet Camera

❒ Camera, Flashback Bullet
❒ Micro Camera Mounting Kit
❒ Mounting Plate
❒ Cable, Flashback Extension—2 FT or 14 FT

Flashback Backseat Camera

❒ Camera, Flashback IR (Backseat)
❒ Cable, Flashback IR Camera Extension—14 FT

Dual VLX2

❒ VLX Charging Station with AC Adapter
❒ Cable, VLX Matching Transformer—10 FT or 22 FT
❒ Panavise Mount
❒ VoiceLink eXtended Wireless Mic Assembly with Microphone, 2 VLX Lapel
   Microphones and Docking Station

Dual VLX, DVR – Trunk Mount

❒ VLX Charging Station with AC Adapter
❒ Cable, VLX Matching Transformer—22 FT
❒ Panavise Mount
❒ VoiceLink eXtended Wireless Mic Assembly with Microphone, VLX Lapel
   Microphones (2) and Docking Station

Overhead Monitor Console Mount

❒ OHC Mount Assembly
❒ Self-drilling Sheet Metal Screws

VLX U-Mount

❒ U-Mounting Plate
❒ Self-drilling Sheet Metal Screws

Universal Front Camera/Monitor Console Ceiling Mount

❐ Universal Mount Assembly
❐ Self-drilling Sheet Metal Screws

Caprice Front Camera/Monitor Console Ceiling Mount

❐ Caprice Mount Assembly
❐ Self-drilling Sheet Metal Screws

Charger Front Camera/Monitor Console Ceiling Mount

❐ Charger Mount Assembly
❐ Self-drilling Sheet Metal Screws

Ford Interceptor Camera/Monitor Console Ceiling Mount

❐ Taurus Interceptor Mount Assembly
❐ Self-drilling Sheet Metal Screws

Explorer Interceptor Front Camera/Monitor Console Ceiling Mount

❐ Explorer Interceptor Mount Assembly
❐ Self-drilling Sheet Metal Screws

Record Indicator Light with Grill Light Assembly

The *Record Indicator Light* is designed to turn on whenever a Flashback recording is in progress. The included *Grill Light Assembly* is used to attach this light on the front grill of a Ford Crown Victoria. If you do not have a Ford Crown Victoria, you would typically install the Record Indicator Light on the *interior* of the vehicle, in a location where the light can easily be seen from outside the vehicle.

❐ Grill LED Assembly
❐ LED Mount Housing
❐ Grill Light Plate
❐ #8 Self-drilling Black Screw
❐ Two #12 Self Drilling Screws
❐ Double-sided Tape

Other Optional Equipment

❐ Body/Lip Mount GPS/WLAN Antenna
❐ Crash Sensor/Battery Backup
❐ Interrogation Room Microphone
❐ Radar Interface
❐ Vehicle Viewer
❐ Vehicle Viewer Live (required for use with PatrolScout)

❏ IR Dome Fixed 3.8mm Lens Camera (for use with Prisoner Transport system)
❏ IR Dome Vari-Focal Lens Camera (for use with Prisoner Transport system)

FlashbackHD SD Memory Card

16B, 32GB, 64GB, or 128GB sizes

USB Key

Optional Bullet Camera with Panavise Mount; You can use up to three Bullet cameras with your FlashbackHD

Two mounts are available for use with the VLX wireless mic—the U-Mount (pictured), and the Panavise mount

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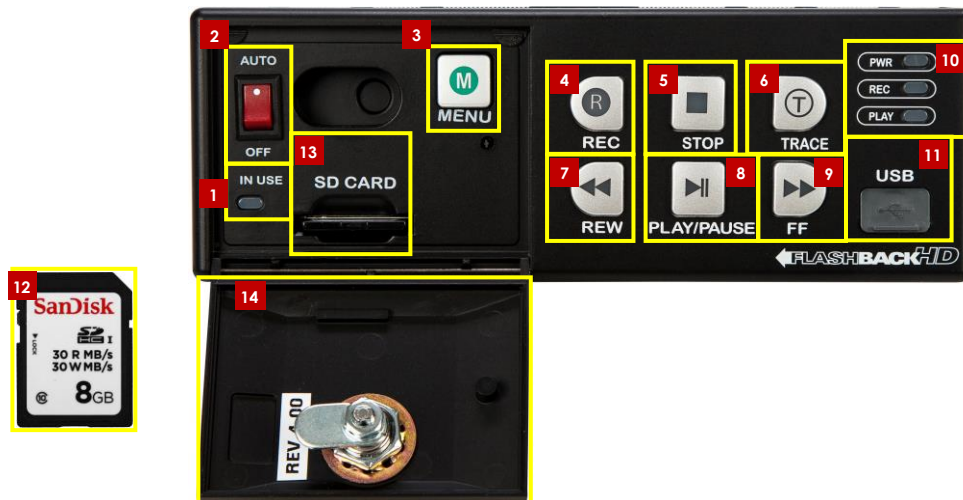
1   IN USE display. An LED light that denotes DVR activity. When this light is on, **do not** remove the SD card or your files may be lost!

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

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

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

5   STOP. The *Stop* button. If you are in *Record* mode, this button is used to stop a recording. If you are in *Play* mode, this button is used to stop a video playback session. If you are in *Menu* mode, this button is used to move the cursor *up.* You can also perform these tasks by pressing the ⬭ button on your Flashback monitor.

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

7   REW. The *Fast Rewind* button. If you are in *Idle* mode, this button is used to toggle the monitor display between Channel 1 (HD Digital Zoom or 10x HD Optical Zoom camera) Channel 2 (Backseat and Bullet cameras). If you are in *Play* mode, this

button is used to rewind slowly (press *once*) or quickly (press *twice*). If you are in *Pause* mode, this button is used to rewind one frame at a time. If you are in *Menu* mode on a field value, this button is used to display the previous field value. You can also perform these functions by pressing the ◀️ button on your Flashback monitor.

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

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

10   **PWR**, **REC**, and **PLAY** indicators. LED lights used to indicate if there is currently power to the unit (PWR), a recording session in progress (REC), or a playback session in progress (PLAY).

11   **USB**. The input port for the *USB login key*—a memory stick that contains the user's name. For instructions on logging into the DVR, see "Logging into a DVR Using Your USB Login Key" in chapter 1 of the *DEP User's Guide*.

12   The Secure Digital (SD) card, used to temporarily store your Flashback videos until they can be transmitted to your agency's application server or PC.

13   **SD CARD**. The input slot for the SD storage card.

14   **DVR DOOR**. The access door for the DVR's manual power switch, SD card, and Flashback menu. This door can only be opened with a key. Depending on your agency's policies, only a limited number of supervisors and/or IT personnel may have access to this key. To access the DVR menu options, this door must be *open*. To record or play back a video, this door must be *closed* and *locked*.

Rear Panel of DVR

WFB3S-CAM-BRKT Flashback3
Camera 3-5 Breakout Cable

MVD-IN-CAR-CAM
Bullet Camera Option

Dual WiFi/GPS Antenna
MVD-SMW3C3C2C Thru-Hole
MVD-MGDW3C3C2B(W) Magnetic

Antenna
MVD-MGD-W153C2C (15')

Antenna (Thru hole)
MVD-DM2-24/55BK(WH)18'

Ethernet Connection

Front Radar Unit

Grill Light Lead

W-FB-MC-DVR-xx
(8', 13 ', 22')

W-FB-IO-C Axx
(8', 18')

VIDEO IN

VIDEO OUT

W-LAN ANT2 W-LAN ANT1 CAMERA 3-5

CAMERA 1 CAMERA 2 MONITOR

GPS ANT

REMOTE

AUDIO IN

LAN/USB RADAR POWER & INPUTS
(12VDC,max. 5A) VLP 1 VLP 2 IN-CAR MIC

W-MVD-VLP-C Axx
(10 ', 22 ')

WFBHD501574 1(2), 14', 22'

W-FB-IRCAM3-C14

Backseat
Microphone
MV-IC V-EMIC

Nite-Watch HD Camera assembly

Lapel mic

VLX wireless
microphone
with docking
station

Zip wires to
speaker leads

Black To Chassis
Ground

Blue

Siren Interface
MV-SIREN

Backseat
Camera
MVD-IR-CAM3-1

40" Mic cord: M VD-VLP2-LPH
Transmitter: M VD-VLX-TR
Docking Station: MVD-VLX-DS

Monitor
MVD-MC

PIN	COLOR	DESTI NATIO N
1	Red	Power (Batte ry 5A Fuse Cable)
2	Black	G round
3	Green	Lights Input (LTS 2A Fuse Cable)
4	Blue	Si ren Inte rface
5	Orange	Brake Input
6	White	Ignition Input (IGN 5A Fuse Cable)
7	Black	Chassis G round
8	Gray	Aux. 2 Input
9	B rown	Aux. 1 Input

Installation

1

Obtain Mount Locations from Agency Representative

Before you begin installing any Flashback equipment, it's very important that you speak with an Agency representative to determine exactly where they want each system component installed. Do **not** drill any holes in the vehicle or make any assumptions regarding equipment placement until you've spoken with the supervisor in charge.

Specifically, you need to obtain the desired mount location and other relevant install options for the following components, where applicable:

- ❐ Flashback DVR
- ❐ Flashback Monitor
- ❐ Charging Station for the VLX wireless microphone
- ❐ WiFi/GPS antenna. If the customer is using a *Magnet* mount antenna, do they want to route the wires through a *door* or through the *trunk jam*?
- ❐ Backseat camera. Should you install the camera so that it is *backward* facing (i.e., facing the backseat of vehicle) or *forward* facing?
- ❐ Backseat Microphone
- ❐ Bullet camera(s). What direction should each camera face?
- ❐ Radar Interface
- ❐ Resettable Crash Sensor

Finally, ask the Agency representative if they have any preference as to where the Power/Input Cable Harness wiring and other wiring should be routed.

Flashback monitor (left) mounted close to agency's radar device (right)

This document consists of general capabilities information that is not defined as controlled technical data under ITAR part 120.10 or EAR

2 Install the Power/Input Cable Harness

1 Locate the vehicle's factory wiring power harness. If no factory harness is available, go directly to the vehicle battery.

NOTE: Do not leave excess cable above the headliner, as this may result in the video system being vulnerable to RF interference.

2 Connect the green Power/Input Cable Harness Lights Input Wire (green) to the Lights Input 2 Amp Fuse Cable pictured below (W-LTS-FUSE-CA1) on the DVR Power/Input Cable lead side (terminated with a butt-splice connector). Connect the other un-terminated lead side to a Lights +12 volt (hot) source that is active when the emergency lights are activated.

3 Connect the Snubber Diode Lead, terminated with Ring Lug, to chassis ground using the supplied Hex Washer Head Self-Drilling ½" long 10-16 thread Zinc-Plated Steel Screw (HDW-90064A430).

DVR Input/ Power Cable Lights Lead (Green Wire)

Chassis Ground

Vehicle Lights Input Signal

Snubber Diode Ground Lead
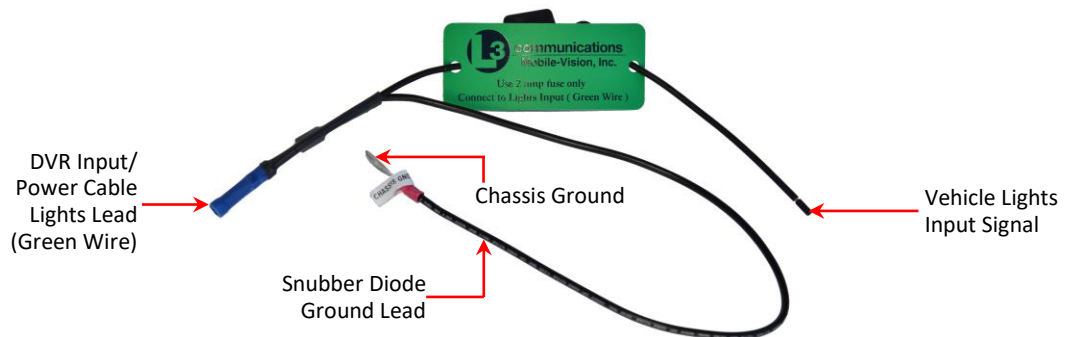
Lights Input 2 Amp Fuse Cable (W-LTS-FUSE-CA1)

4 Connect the Power/Input Cable Harness Siren Input Wire (blue) to the blue wire of the supplied Siren Interface Unit (cube). Locate the two siren speaker wires. T-tap each of the siren speaker wires to each of the zip wires (brown) on the siren interface unit. It does not matter which zip wire goes to which speaker wire. Connect the siren interface unit's ground wire (black) and the cable harness system ground wire (black) to the vehicle chassis (ground).

5 Follow the vehicle manufacturer's recommendations for connecting components to brake wires. When making connections, never cut any wires in the brake circuit.

6 Connect the Power/Input Cable Harness Battery Input Wire (red) to the Battery 5 Amp Cable Red Butt Connector. Next, directly connect the other side to the vehicle Battery (+) Positive Lead.

WARNING: The Battery 5 Amp Fuse Cable must be connected directly to the vehicle battery and not switched.

Vehicle Battery
Positive (+) Lead

DVR Input/Power
Cable Battery
Lead (red wire)
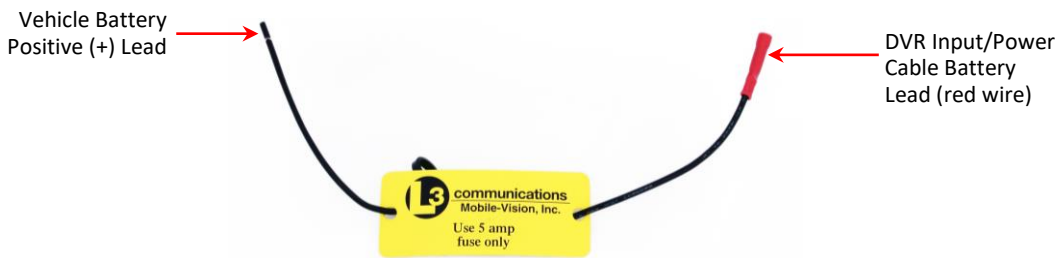
Battery 5 Amp Fuse Cable (W-BAT-FUSE-CA1)

7 Connect the Power/Input Cable Harness Ignition Input Wire (white) to the Ignition Input 5 Amp Fuse Cable lead that is terminated with a butt-splice connector. Connect the other un-terminated lead side to a +12 volt (hot) source that is active when the vehicle's ignition is activated.

8 Connect the Snubber Diode Lead, terminated with Ring Lug, to chassis ground using the supplied Hex Washer Head Self-Drilling ½" long 10-16 thread Zinc-Plated Steel Screw (HDW-90064A430).

Connect to
Chassis Ground

Vehicle ignition
input signal

DVR Input/Power
Cable Ignition
Lead (White wire)

Snubber Diode
Ground Lead
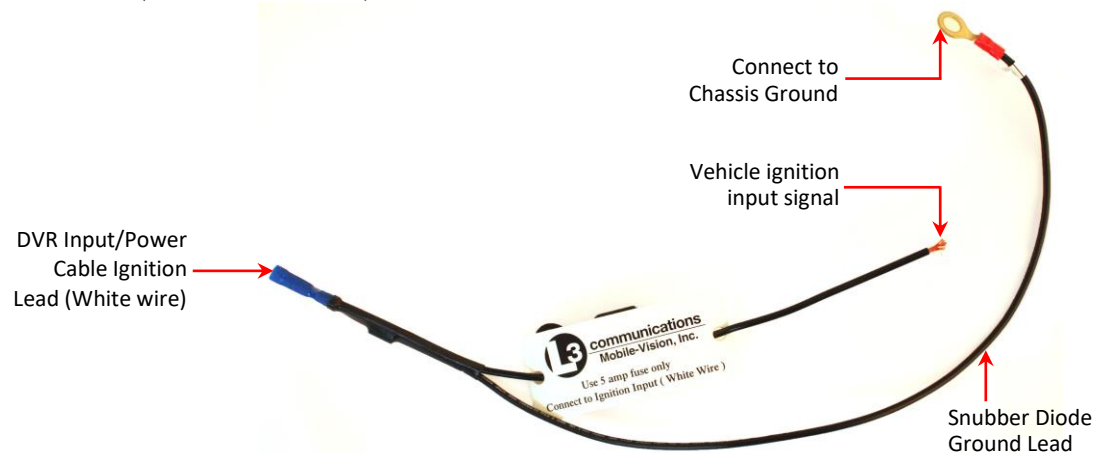
Ignition Input 5 Amp Fuse Cable (W-IGN-FUSE-CA1)

NOTE: To avoid side-to-side cable stress on the connector pins, allow for a minimum of 1.5" of straight cable run from the connector, as pictured below.

1.5" Minimum

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2   Install the Resettable Crash Sensor (optional)

1   Disconnect the vehicle's battery.

2   Locate a suitable location to install the resettable crash sensor—either in the passenger compartment (preferred) or trunk. Keep in mind that:

❒ The crash sensor has to be mounted **vertically** on a **rigid** steel body panel, with the red cap facing **up**. Preferably, mount the crash sensor near the joining of two panels. (Do **not** mount the sensor in the middle of a large panel.) If the mount surface is not rigid, the sensor might be inadvertently triggered by high vibration levels transmitted through the panel.

❒ The crash sensor needs to be safe from loose objects (e.g., luggage, tools, etc.).

❒ The crash sensor needs to be in a location that is easily accessible for future servicing.

❒ The crash sensor needs to be kept dry. Avoid any location where liquids may spill or water may spray/collect.

3   Using the crash sensor as a template, drill two pilot holes using a 4.2mm (1/8") diameter drill bit in the chosen location (see diagram below). *Do not assemble the sensor yet!*

⚠️ **WARNING**: Be careful not to drill into anything behind the body panel.

4   Wire the supplied harness to the Flashback system, as illustrated below.

5   Connect the crash sensor to the wiring cable: hold the sensor in one hand and push the connector firmly into the cable's socket (see **WARNING** on the next page).

⚠️ **WARNING**: The connector is designed to fit in only one way and should not be subjected to undue force.

6   Push the red button on the top of the crash sensor to reset the device.

7   Reconnect the vehicle's battery and turn the ignition on. Wait for the Flashback system to finish booting, then proceed to the next step.

8   If you have not done so already, configure the Flashback system to trigger using the AUX 1 trigger. This procedure will differ slightly depending on whether or not your agency is using the Fleet Management feature.

   ❒ If your agency is using the Fleet Management feature, select the *Aux 1 Trigger* in your Back Office software. For instructions, see "Changing the Triggers for a Flashback DVR that is Not Assigned to a DVR Group" or "Changing the Triggers for a Flashback DVR that is Assigned to a DVR Group" in the DVRs chapter of your DES Administrator's Guide.

   ❒ If your agency is *not* using the Fleet Management function, select the *AUX1* trigger from the Flashback DVR menu. For instructions, see "Turning the AUX1 Trigger On/Off" in the Flashback3/FlashbackHD User's Guide.

9   Test the crash sensor: Hold the sensor upright in one hand and strike it sharply with the other hand. The Flashback should start recording. (If the Flashback system does *not* start recording, disconnect the vehicle's battery and check to make sure you followed the installation procedures correctly.)

10   Push the red button on the top of the crash sensor to reset the device.

11   Turn off the engine and disconnect the vehicle's battery. Using the screws provided, install the sensor in your chosen location. Tighten the screws to a torque of 26 in/lbs.

12   Mount the Backup Battery: Using the supplied self-drilling sheet metal screws, attach the Battery Backup box to a solid area of the vehicle frame. The unit can be oriented in any direction or at any angle.

13   Reconnect the vehicle's battery and turn the ignition back on. Wait for the Flashback system to finish booting, then proceed to the next step.

14   Test the installation and positioning of the crash sensor by slamming the vehicle's car doors and trunk hood.

   ❒ If the sensor does not trigger recording during these tests (desired result), proceed to the next step.

   ❒ If the sensor *does* trigger recording during these tests, you will have to reinstall it in a more rigid location.

15   Write the mounting location of the crash sensor on the supplied label. Place the label in a visible location in the glove box.

4   Install the Monitor, Camera, and VLX cables

Run the monitor, camera, and VLX cables through the appropriate channels.

5   Install the GPS/WLAN Antenna

If you are using a *Magnet* mount, mount the antenna on the trunk lid and route the wires through a door or trunk jam.

If you are using a *Thru-Hole* mount, follow these instructions:

1. Select a location on a horizontal metal surface. Possibilities include:

   ❐ 8" in front of the light bar (recommended). This location is ideal because it provides the antenna with the best "line-of-sight" view to the access point antenna. *See photo at bottom of page*.
   ❐ 8" in back of the light bar
   ❐ On the trunk lid

2. Punch or drill a 5/8" – 3/4" drill-hole through the selected surface.

3. Remove the attached nut and feed the cables through the hole.

4. Seat the antenna on the surface and reattach the nut. Tighten the nut with a wrench to properly seal the gasket.

5. Feed the cable(s) to the receiver and attach it directly or through additional jumpers.

Dual WiFi/GPS Antenna with Magnet Mount
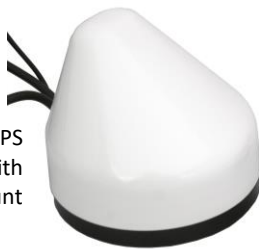
WiFi/GPS Antenna with Magnet Mount

WiFi/GPS Antenna with Thru-Hole

WiFi/GPS Antenna with thru-hole, shown mounted on vehicle roof

6   **Install the In-Car Microphone (optional)**

This section describes how to install the *in-car* mic, also referred to as the *stand-alone* mic. This microphone captures audio inside the vehicle.

1   Place the stand-alone microphone in a location where it will be able to pick up both voice and radio speech throughout the cabin.

2   Route the connector end of the In-Car Microphone cable to the DVR, running the cable through a safe and concealed pathway.

3   Connect the microphone cable to the IN-CAR MIC port on the back of the DVR.

7   **Install the Backseat Camera (optional)**

1   Using the supplied U-bracket, install the Backseat camera in the desired location.

2   Set the Mirror Switch on the back of the camera to either ON or OFF:

- ❐ If the camera is *rear-facing*, set the Mirror Switch to **ON**.
- ❐ If the camera is *forward-facing*, set the Mirror Switch to **OFF**.

Front view   Rear view

8

Install the IR Dome Cameras (Prisoner Transport Option only)

The Prisoner Transport System offers many different component options and is highly customizable. This section provides a general overview of a typical installation. Please work with your Mobile-Vision Sales Representation and System Implementation Specialist to design and install the system that best serves your agency's needs.

The Prisoner Transport System includes two IR Dome cameras. These cameras are typically attached to the interior of your transport van:

❑ IR Dome Fixed 3.8MM Lens Camera
❑ IR Dome Vari-focal Lens Camera

IR Dome Fixed 3.8mm Lens Camera   IR Dome Vari-Focal Lens Camera

1 Using the hardware provided, attach the first IR Dome camera to your van's prisoner cage or other surface.

2 Attach the camera's connector to the Mobile-Vision extension cord you ordered. This cord should be long enough to reach the DVR.

3 Attach the extension cord to either the 3-part breakout cable *or* the CAMERA 2 port on the back of the DVR. *See diagram on the next page*.

4 If you purchased a second IR Dome camera, repeat steps 1 – 3.
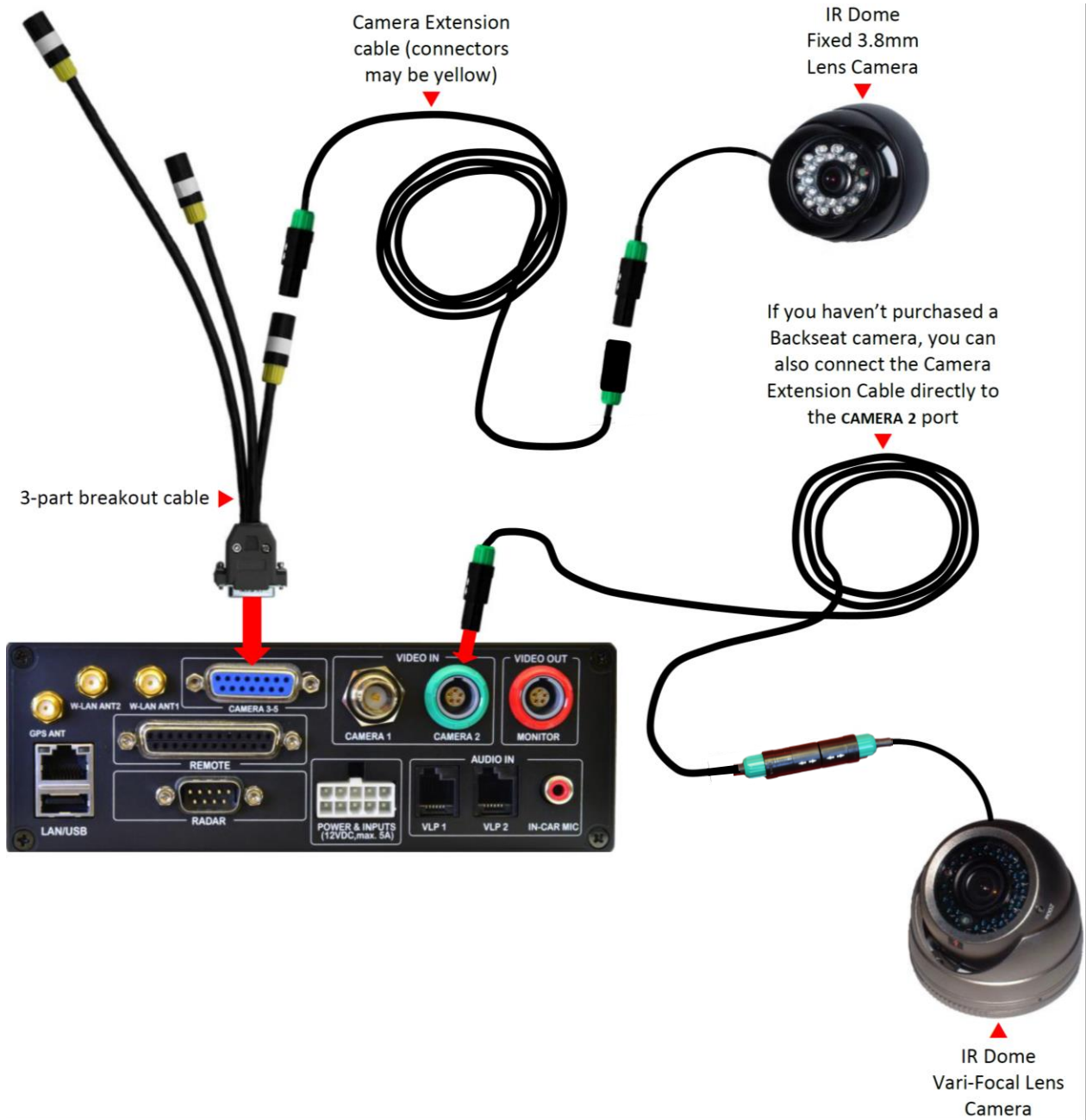
Camera Extension cable (connectors may be yellow)

IR Dome Fixed 3.8mm Lens Camera

If you haven't purchased a Backseat camera, you can also connect the Camera Extension Cable directly to the CAMERA 2 port

3-part breakout cable ▶

VIDEO IN | VIDEO OUT
W-LAN ANT2 | W-LAN ANT1
CAMERA 3-5
GPS ANT
CAMERA 1 | CAMERA 2 | MONITOR
REMOTE
LAN/USB
RADAR
POWER & INPUTS (12VDC,max. 5A)
AUDIO IN
VLP 1 | VLP 2 | IN-CAR MIC

IR Dome Vari-Focal Lens Camera

9 Mount the DVR
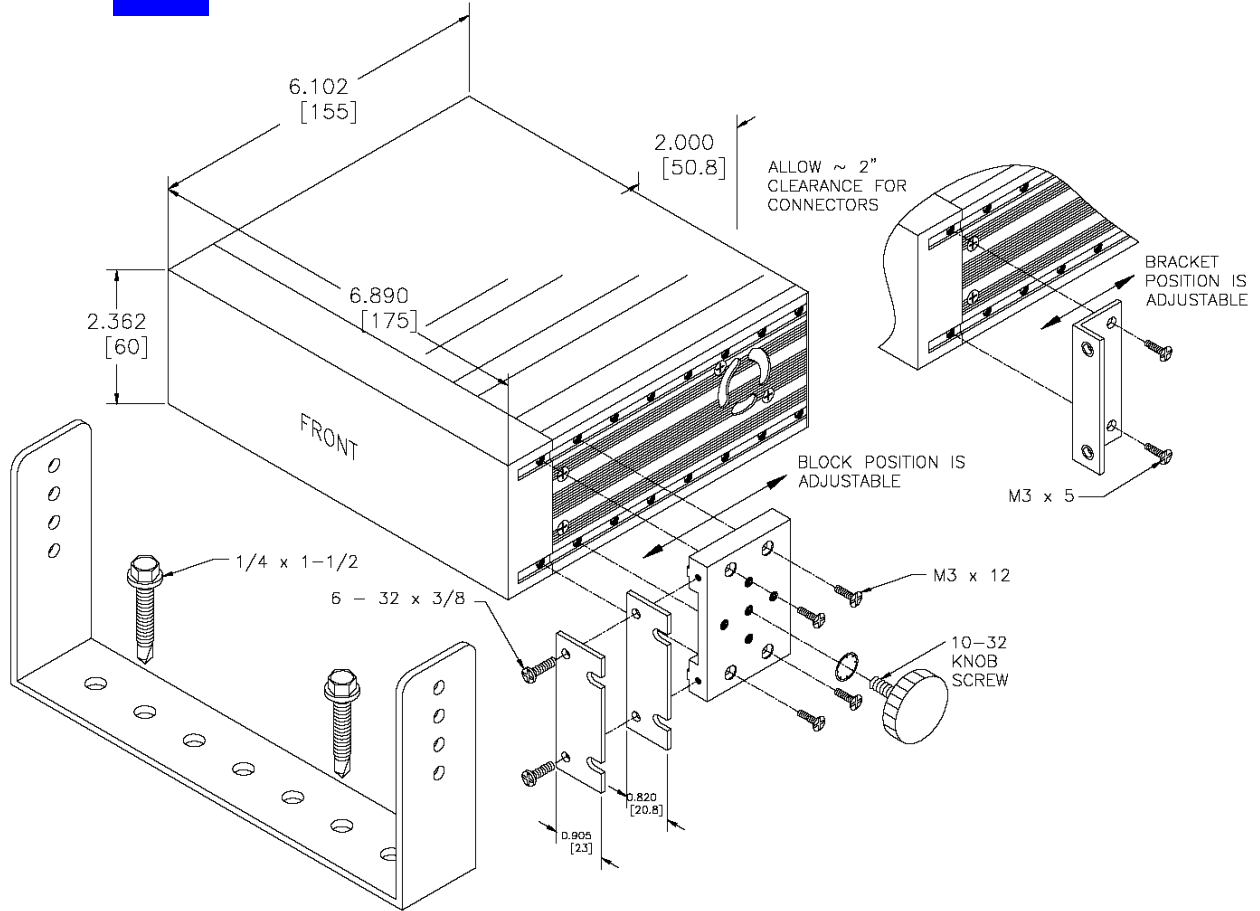
WARNING: To avoid damage to the unit, use screws exactly as indicated in this diagram. Some screws may appear similar to others, but they are *not* interchangeable.

Mounting Components

A	B	C	D	E	F	G	H	I	J
BLOCK	EAR 230mm	EAR 208mm	6–32 x 3/8	M3 x 12	10–32 KNOB W/ WASHER	U–BRACKET	M3 x 5	L–BRACKET	1/4x1–1/2 SELF DRILLING
2 pcs	2 pcs	2 pcs	4 pcs	8 pcs	2 pcs	1 pc	4 pcs	2 pcs	2 pcs
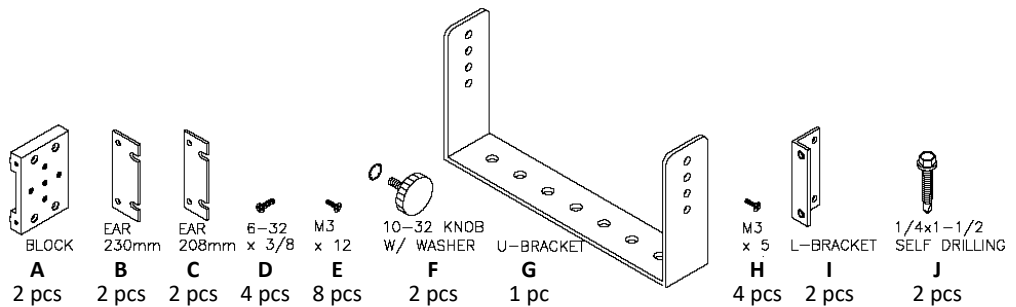
Center Console Mount Configurations

Center Console Mount 1
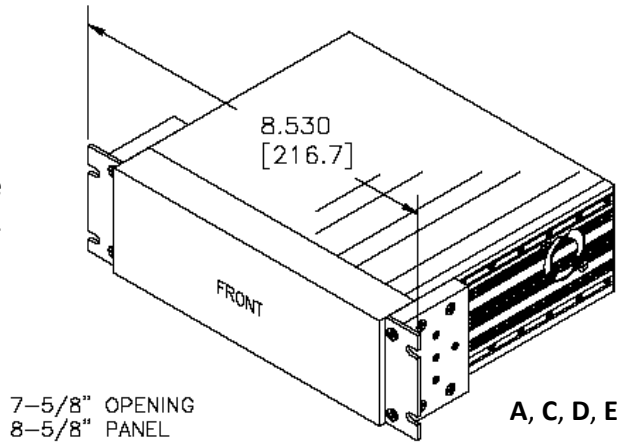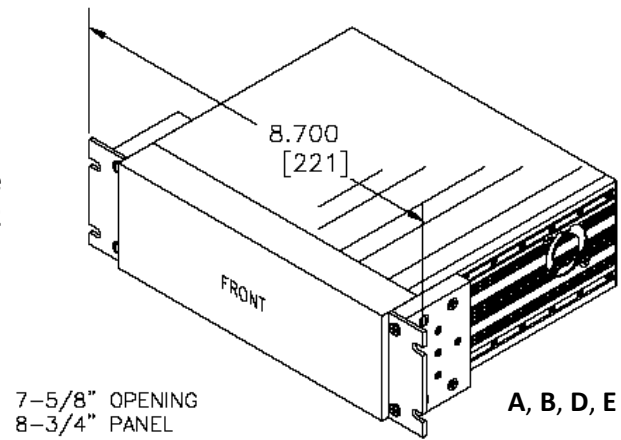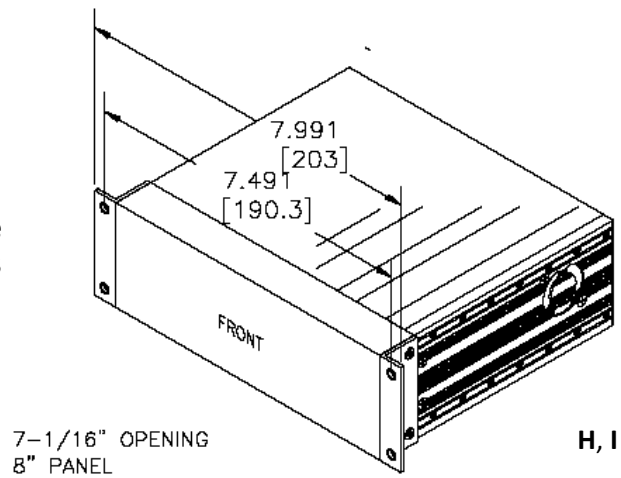
8.530
[216.7]

FRONT

7-5/8" OPENING
8-5/8" PANEL

A, C, D, E

Center Console Mount 2

8.700
[221]

FRONT

7-5/8" OPENING
8-3/4" PANEL

A, B, D, E

Center Console Mount 3

7.991
[203]
7.491
[190.3]

FRONT

7-1/16" OPENING
8" PANEL

H, I

Mounting
Components

BLOCK	EAR 230mm	EAR 208mm	6-32 x 3/8	M3 x 12	10-32 KNOB W/ WASHER	U-BRACKET	M3 x 5	L-BRACKET	1/4x1-1/2 SELF DRILLING
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
2 pcs	2 pcs	2 pcs	4 pcs	8 pcs	2 pcs	1 pc	4 pcs	2 pcs	2 pcs
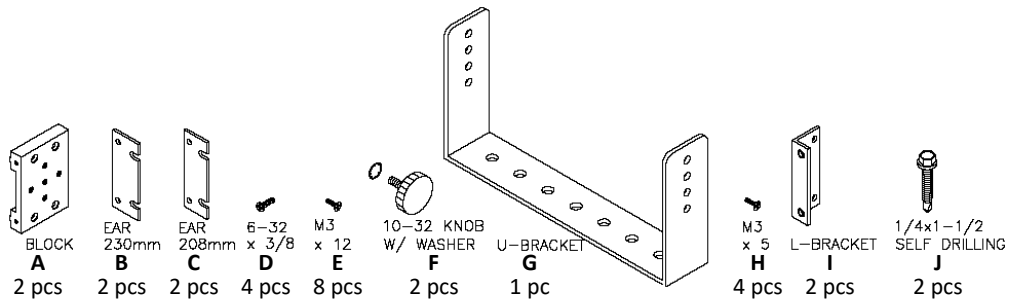
U-Bracket Mount Configuration

~7.625

FRONT

A, E, F, G, J
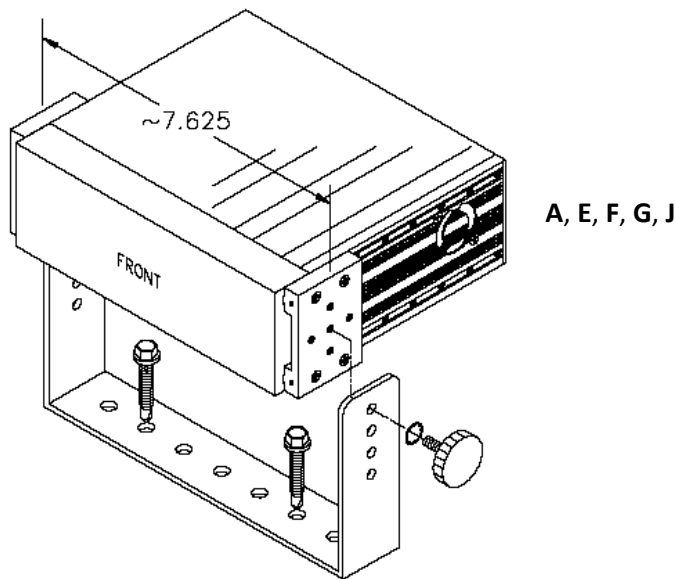
Open Frame Radio Rack Mount Configuration

~7.625

FRONT

A, E, F
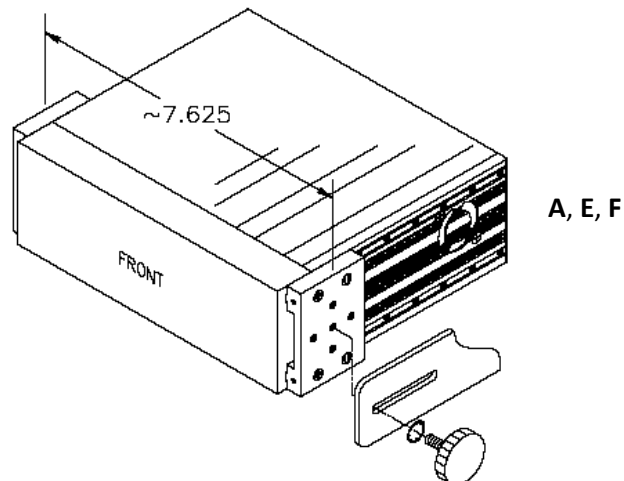
10 Install the Forward Facing Zoom Camera

1 Swivel the camera mounting arm ball joints so that the flat side of the mount faces *forward*, as pictured below.

HD Digital Zoom Camera   10x HD Optical Zoom Camera

2 Hold the camera close to the right-hand side of the rearview mirror, point it out over the center of the hood of the vehicle, and select an appropriate spot to attach the camera's mounting button. While the mounting button is in position, swivel the camera from left to right on its ball-joint to make sure that the camera will not be obstructed when the sun visor is lowered or when the rear view mirror is adjusted.

Mount Position for Forward-Facing Zoom Camera
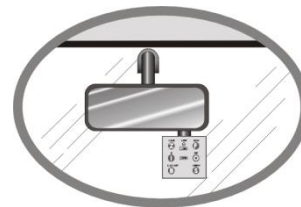
3 Mark your selected spot on the windshield with a piece of tape.

4 Loosen the thumbscrew at the end of the mounting arm, and slide the mounting button out of its slot, as pictured below.

This Side Up

Camera side of mounting button

5 Review the instructions titled "Attaching Mounting Button to the Windshield," on page 43. While gluing the mounting button to the selected spot on your windshield, make sure that the rounded end of the mounting button is pointing *downward*, and the smooth side of the button
is glued to the windshield.

⚠️ **IMPORTANT**: Apply glue to the **windshield side** of mounting button!

windshield side

SAFE FLEET
Law Enforcement

6 Allow the adhesive to harden for at least one hour. In cold weather, it's recommended that you blow warm air from the vehicle's heating system onto the windshield to speed the glue hardening process.

7 If you purchased the optional HD-SDI camera cord (pictured right), proceed to the next step. Otherwise skip to step 9.

8 Twist the cable around the back of the mount, starting from the right (see photo). This will create a loop that will help prevent undue stress on the cable when you reposition the camera.

9 Attach the camera to the camera mount.

Optional HD-SDI camera cord with BNC connector (WFBHD5015911CA)

---

11   **Install the Monitor Console**

1 Attach the Monitor Console to the Panavise mounting arm, allowing room for the user to adjust the monitor's position for convenient access and optimal viewing.

Monitor with mounting arm ▶

2 Select a mounting spot on the vehicle's dash-board or near the instrument panel where the mounted Panavise Monitor Console assembly will not obstruct other stationary or movable equipment, such as airbags.

3 Using the larger of the mounting arm's two endplates as a template, mark the position of the four screw holes on your selected mounting spot.

4 Secure the mounting arm to your selected mount spot using the supplied self-drilling screws.

5 *Attach the monitor to the mounting arm*: slide the monitor's back slot onto the mounting arm's endplate and then secure it with the supplied screw.

Sheet Metal Screw (1)

#8 Self-Tapping Screws (4)
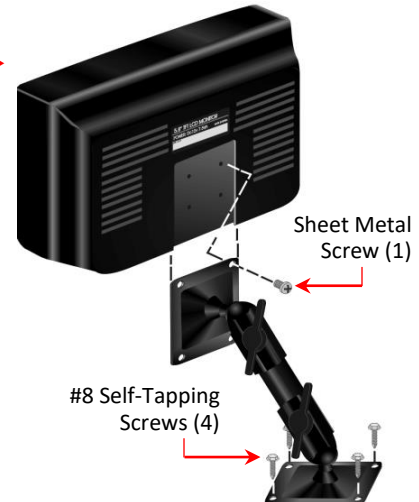
Monitor Overhead Mount: Vehicle Side View

Vehicle Windshield

Liner

Visor

Panavise Ball

Visor Clip

Secure with two supplied
#2 HEX Head Self-drilling
8-18 x 1" L Screws
(Note Ceiling View)

Mount (MV-727-06) comes
with Flashback system Monitor
Console Assembly (MV-727-06)

Small plate slides into Monitor Console rear mounting slot
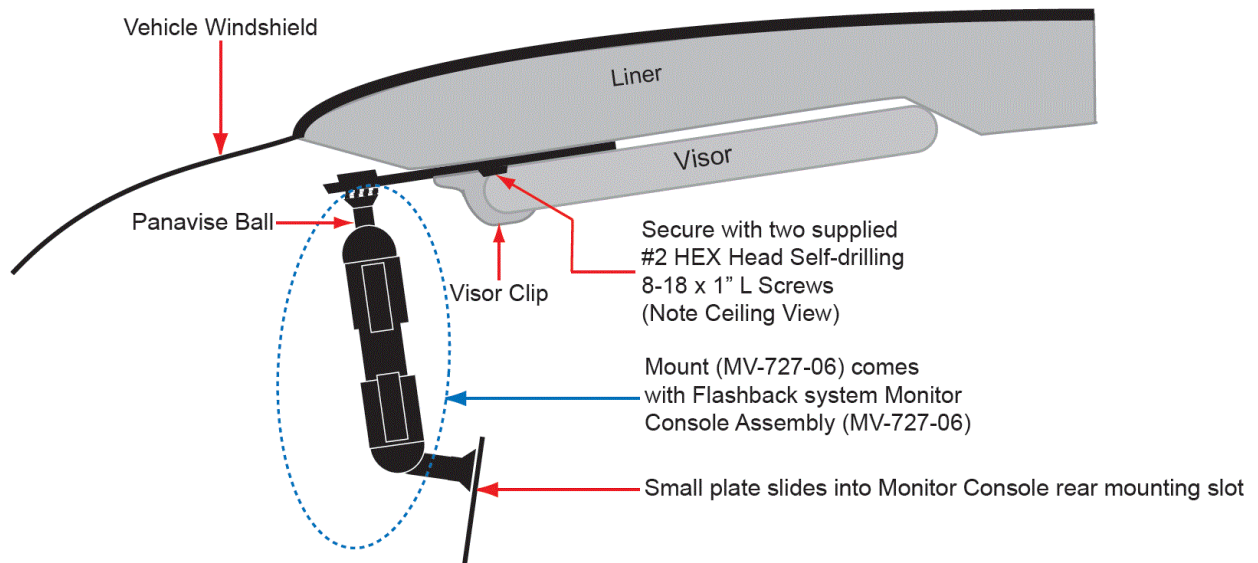
Monitor Overhead Mount: Headliner View
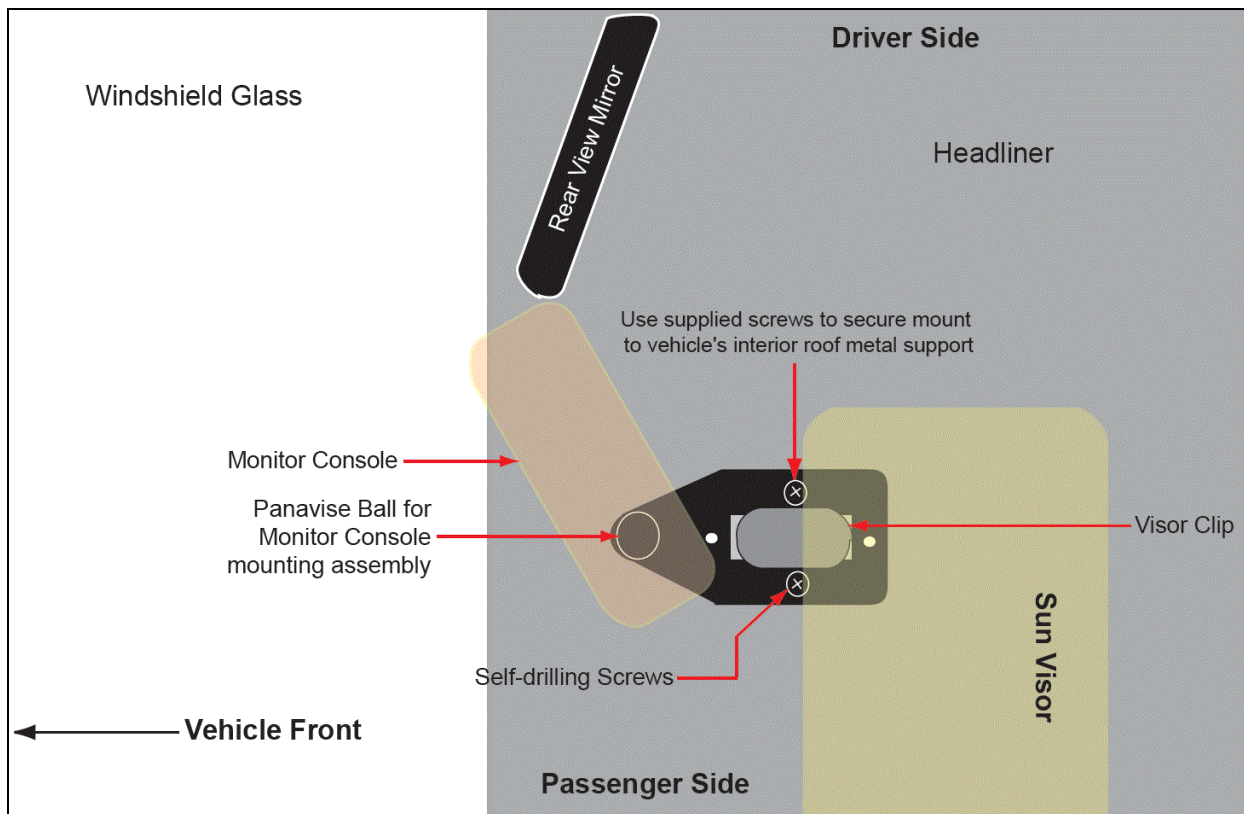
Driver Side

Windshield Glass

Rear View Mirror

Headliner

Use supplied screws to secure mount
to vehicle's interior roof metal support

Monitor Console

Panavise Ball for
Monitor Console
mounting assembly

Visor Clip

Self-drilling Screws

Sun Visor

Vehicle Front

Passenger Side

12 Install the VLX Docking Station

The docking station for the VLX wireless microphone is attached to your vehicle's dashboard or instrument panel using a Panavise mounting arm or U-Mount device.

Panavise Mount

Slide this plate onto the back of the Docking Station

#8 Self-Tapping Screws (4)
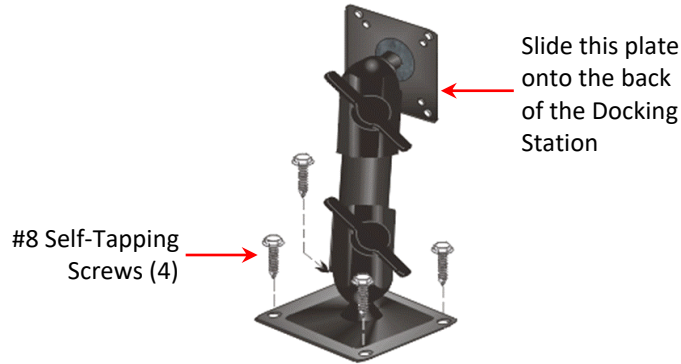
1 Select a mounting position on the vehicle's console or instrument panel where the Docking Station mount will be free from obstructions.

2 Using the mount's larger endplate as a template, mark the position of the four screw holes on the selected mounting surface.

3 Affix the mount to the selected location the using four #8 self-tapping screws.

4 *Attach the Docking Station to the mount*: Slide the slot on the back of the Docking Station onto the endplate of the mount. When the endplate is fully seated into the slot, it will lock into place. (To *remove* the Docking Station, depress the locking tab in the slot and slide the endplate out.)

5 Connect the Docking Station to the DVR using the VLX cable. The cable end that's closest to the transformer box plugs into the VLP1 or VLP2 port on the DVR, and the other end plugs into the communications port on the Docking Station.

Transformer box

U-Mount

Vehicle Interior Surface

Supplied Hex Washer Head
Self-drilling hex 8-18 x 1" screws (2)

Bend this end to the desired
mounting angle as needed

Slides in and locks to
the Docking Station
rear mounting slot

Locking tap
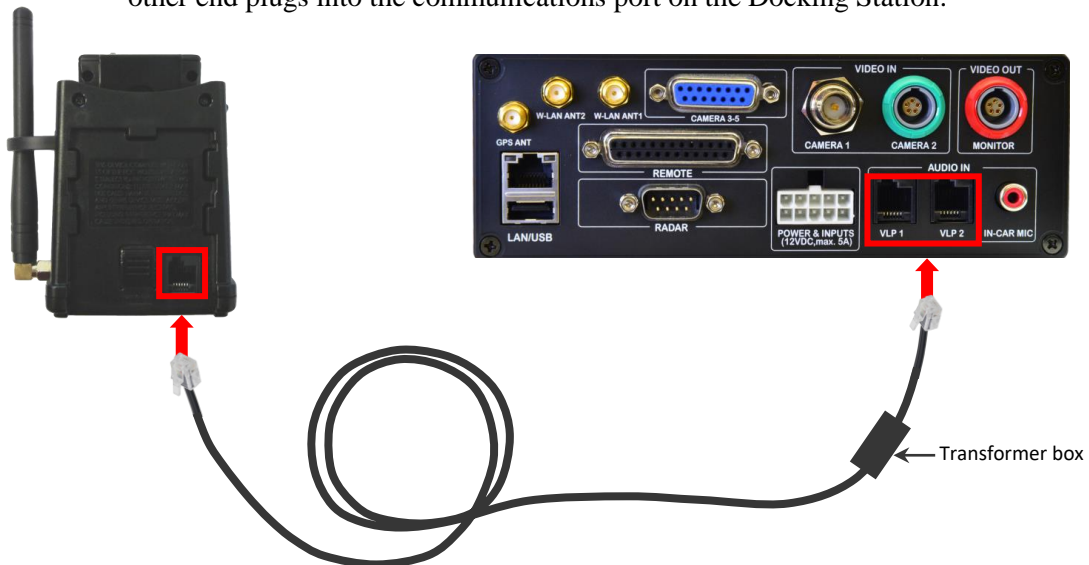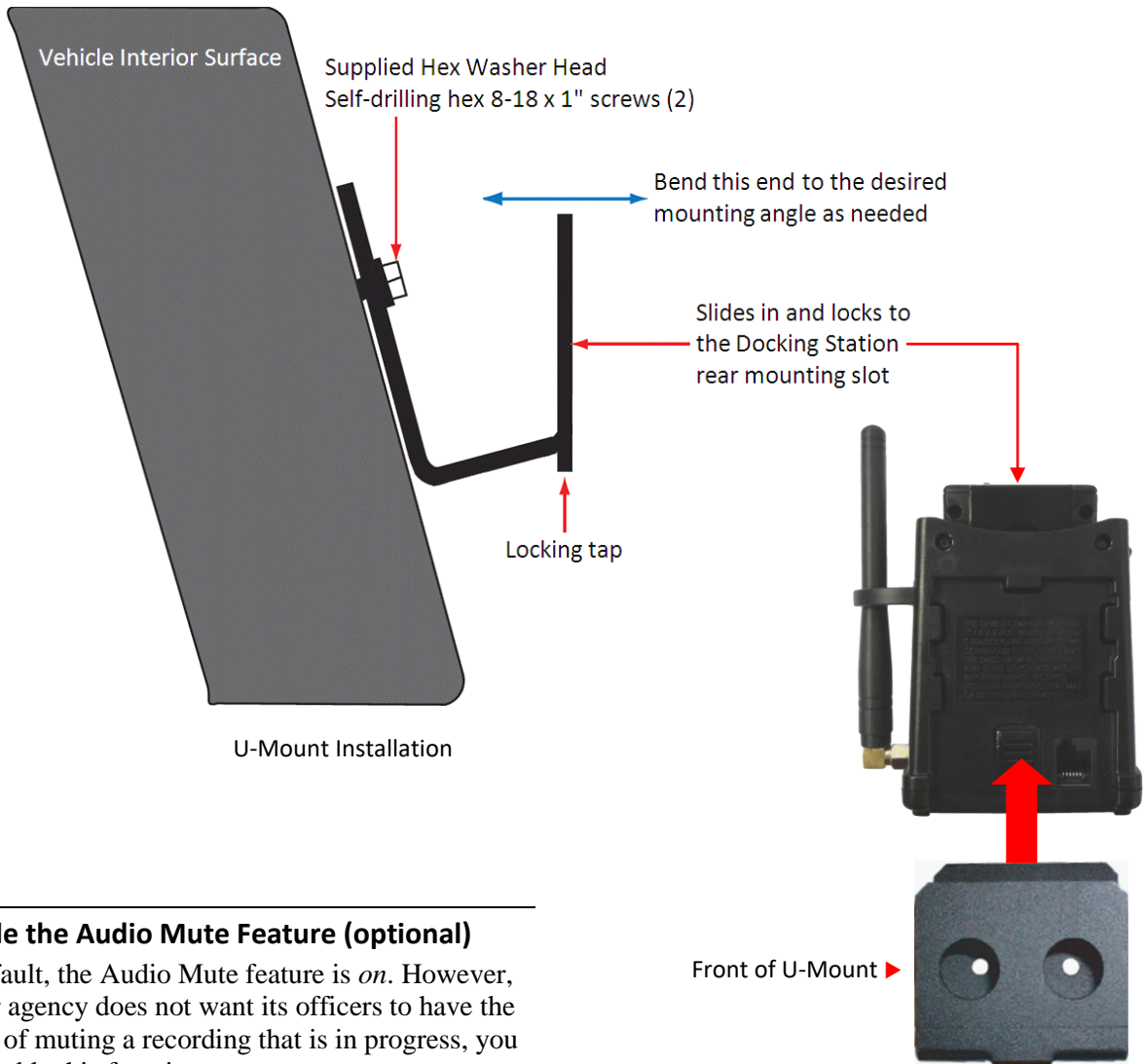
U-Mount Installation

Front of U-Mount ▶

Disable the Audio Mute Feature (optional)

By default, the Audio Mute feature is *on*. However, if your agency does not want its officers to have the option of muting a recording that is in progress, you can disable this function.

1   Remove the back cover of the VLX.

2   Move the battery to the side.

3   Place the tip of a pen or stylus in the indentation beneath the ON switch, then gently slide the switch *down* into the OFF position.

4   Reinstall the back cover.
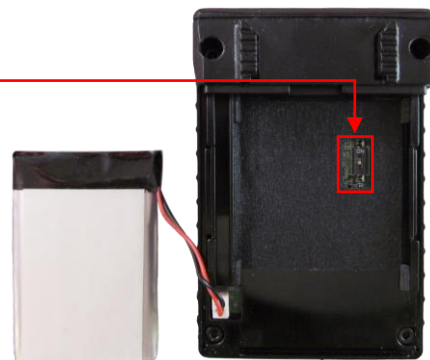
13 Install Bullet Camera (optional)

1 Select a location for your Bullet Camera, then using the hardware provided, install the Panavise mount.

2 Connect the Bullet camera to the Camera Extension Cable (W-FB-CAMEXT-CXX). This cable comes in three lengths: 2 ft, 14 FT, or 22 FT. The size you select depends on the distance between the Bullet camera and the DVR.

Mounting
Components for
Bullet Camera

3 Connect the Camera Extension
Cable to the DVR using a 3-Part Breakout cable (WFB3-CAM-BRKT).

Camera Extension cable
(connectors may be yellow)

Bullet
camera

If you haven't purchased a
Backseat camera, you can
also connect the Camera
Extension Cable directly to
the CAMERA **2** port

3-part breakout cable

190 Degress

85 Degree Minimum

Camera Tilt & Turn Mount

Mount 2" Extension Shaft (as needed)

External Tooth Locking Washer (as needed)

Flat Washer as needed (1")

Vehicle Sheet Metal

Interior Fabric

Flat Washer (adds stiffness if needed)

External Tooth Locking Washer

HEX Bolt 1/4"-20 x 0.5"

Bullet Camera Mounting Option 1—Rear Access Mount

190 Degress

40 Degree Minimum

In-Car Camera Mounting Bracket

Self Drilling Screws

190 Degress

40 Degree Minimum
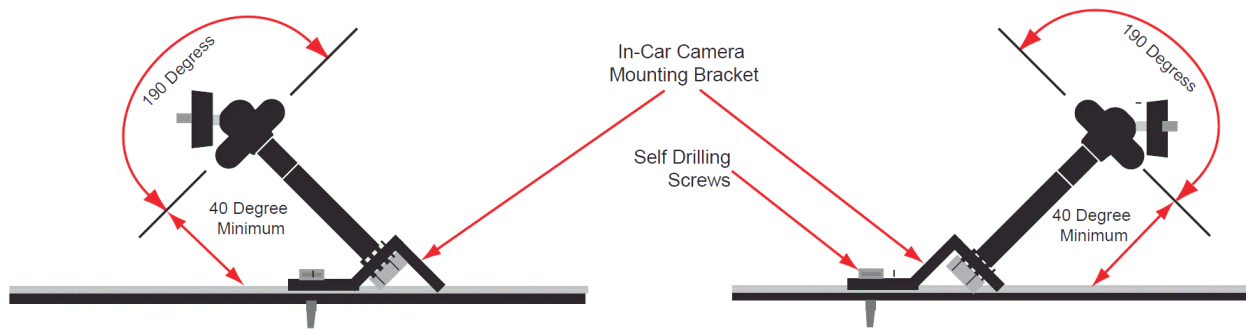
Bullet Camera Mounting Option 2—Surface Mount

14 Install the Radar Interface (optional)

If your agency has purchased the optional Radar Interface, you'll need to connect it to both the DVR and your radar unit.

1 Make sure switch **1** is in the **OFF** position (default).

2 If you are using a Decatur radar device, set switch **8** to the **ON** position.

– OR –

If you are using a Stalker, Kustom, or MPH radar device, set switch **8** to the **OFF** position.
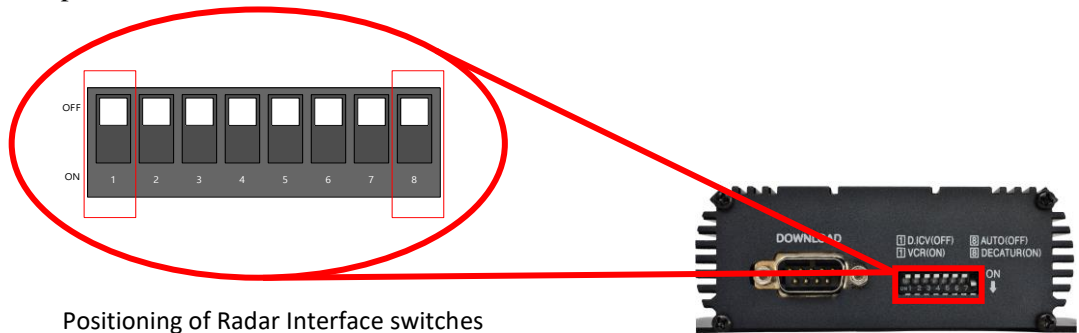
Positioning of Radar Interface switches

3 Using the four mounting screws provided, secure the Radar Interface to a flat surface in your vehicle within five feet of the DVR.

4 Using the Radar Interface Cable, connect the **RADAR** port on the Radar Interface unit to the appropriate port on your radar device.

Connects to your agency's radar unit

5 Using the 5 FT DVR Cable (W-FB-RDRDVR-CA5), connect the **D.ICV/VCR** port on the Radar Interface unit to the **RADAR** port on the DVR.

6 Program the DVR to Work with the Radar Interface. To do so, first go into the Radar menu and set the *Radar* field to the **ON** position. Next, select your radar display options in the *Radar Info* field.

Main Menu•Recording•Radar

| Radar | ON |
| Radar Info | T/L/P |

Make sure this field is set to **ON**

Select your radar display options
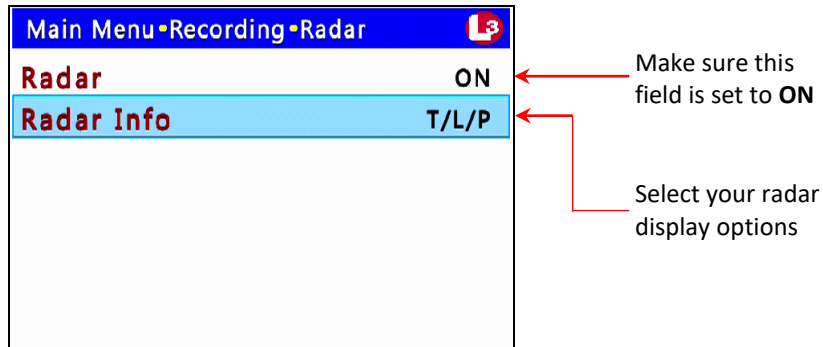
For specific instructions, see "Turning the Radar Display On" in the *Flashback3 & FlashbackHD User's Guide*.

15 Connect Ethernet Cable for Vehicle Viewer or Vehicle Viewer Live (optional)

Vehicle Viewer is an optional software application that allows you to view videos and access the Flashback controls from your in-car mobile data computer. This provides you with a much larger display view than that of the Flashback monitor. Vehicle Viewer Live is a similar application that is designed to work in conjunction with our PatrolScout video streaming application.

To use Vehicle Viewer or Vehicle Viewer Live with Flashback, simply connect the yellow Ethernet cable (MVD-CAT5XVR-25) from your mobile data computer to the DVR, as pictured below. This cable comes in 2 lengths: 7 feet (MVD-CAT5E-Y) and 25 feet (MVD-CAT5XVR-25). Select the length needed to reach the DVR from your mobile data computer.
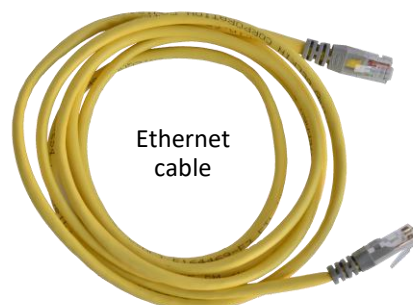
Ethernet cable

NOTE: the Ethernet connection between the DVR and PC must be direct. Mobile-Vision does not support any third party products (i.e., switches or routers), placed between the two devices.

If your agency's mobile data computer does not have an available Ethernet port, you will need to use a USB-to-Ethernet adapter.

To install the appropriate software on your mobile data computer or laptop, refer to the installation instructions in the *Vehicle Viewer User's Guide* or *Vehicle Viewer Live User's Guide*.

16 Install the Record Indicator Light (optional)

Using the provided mount, install the Record Indicator Light inside your vehicle. Select a location that is easily viewable from outside the vehicle.

Record Indicator Light installed on interior column of vehicle

17 Enter the Number of Cameras on Channel 2

FlashbackHD supports up to five cameras: one camera on Channel 1—typically the HD Digital Zoom or 10x HD Optical Zoom camera—and up to four cameras on Channel 2. The Channel 2 cameras may include any combination of the following:

- ❒ Backseat camera
- ❒ Bullet camera
- ❒ IR Dome Fixed 3.8MM Lens Camera[*]
- ❒ IR Dome Vari-focal Lens Camera[*]

1 Determine the number of cameras you have installed on Channel 2. To derive this number, add up the total number of cameras that are connected to the DVR via the 3-part breakout cable and/or **CAMERA 2** port.

---

[*] Included with the Prisoner Transport option.

2 If your agency is using the Fleet Management option, proceed to the next step. Otherwise skip to step 4.

3 Login to the server application and enter the number of Channel 2 cameras in the *Active Cameras* field, which is located on the **Video** tab of the Edit Group screen. For detailed instructions, see "Changing the Video Settings for a DVR Group" in chapter 5 of the *DEP Administrator's Guide*. **End of procedure**.
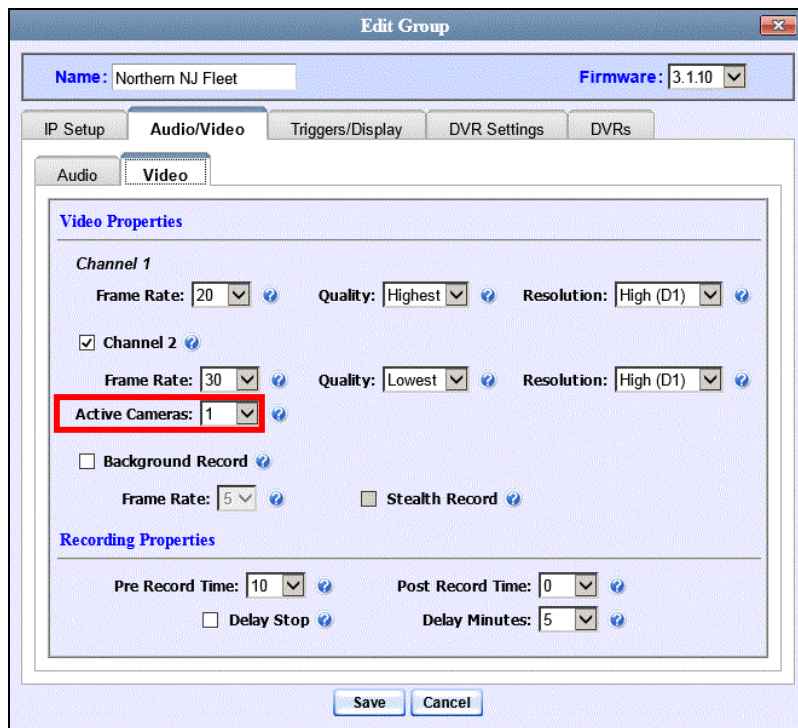
4 Advance to the DVR menu and enter the number of Channel 2 cameras in the *CH2 Camera field*, which is located on the **Video** screen. For detailed instructions, see "Selecting the Camera(s) for Channel 2" in the *Flashback3 & FlashbackHD User's Guide*.

Sample Mounts

Universal Installation

Vehicle Side View

Windshield Bracket is placed against glass inside surface

Location C Apply pressure

Vehicle windshield

Liner

External Tooth Lock Washer

Panavise Ball

B

Visor

Panavise

Location A -Secure with supplied #2 HEX Head Self-drilling 8-18 x 1" L Screw (Note Ceiling View)

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly

Visor Clip

Optional Panavise Ball Installation Location

Small plate slides into Monitor Console rear mounting slot.

IMPORTANT: Preload must be applied to Bracket B in order to reduce unwanted mount movements.

Installation Steps:
1. Install Visor Clip and align mount assembly. Secure in place (Location A) using supplied #2 Hex Head Self-drilling screws.
2. Loosen two side screws that lock the Windshield Bracket to the mount plate.
3. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.

Headliner View

Driver Side

Windshield Glass

Rear View Mirror

Headliner

Front Facing Camera

Sun Visor Clip

Monitor Console mounted on Panavise

Windshield foot locking screw

Location of Front Facing Camera Mount

Opional Location for camera mount

Windshield foot locking screw

Optional Location for Monitor Console Mount Panavise Ball

Use #2 HEX Head Self-drilling screws to secure mount to vehicle's interior roof metal support. Remaining plate holes can be used to secure cables as needed.

Preferred location for Panavise Ball for Monitor Console Mount

Sun Visor

Vehicle Front

Passenger Side

SAFE FLEET
Law Enforcement

Caprice Installation

Vehicle Side View

Vehicle windshield

Windshield Bracket is placed against glass inside surface

Location C Apply pressure

Liner

Visor

B

Panavise

L3 Mobile-Vision, Inc

Replace Camera Mounting Block with supplied Block (HDW-NW-SCW-BLCK) and secure using existing screws (4)

Visor Clip

Location A - Secure with two supplied #2 HEX Head Self-drilling 8-18 x 1" L Screws (Note Ceiling View)

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly (MV-727-06)

Small plate slides into the Monitor Console rear mounting slot

IMPORTANT: Preload must be applied to Bracket B in order to reduce unwanted mount movements.

Installation Steps:
1. Install Visor Clip and align mount assembly. Secure in place (Location A) using supplied #2 Hex Head Self-drilling screws.
2. Loosen two side screws that lock the Windshield Bracket to the mount plate.
3. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.

Headliner View

Windshield Glass

Driver Side

Rearview Mirror

Front Facing Camera

Windshield foot locking screw

Location of Front Facing Camera Mount

Windshield foot locking screw

Panavise Ball for Monitor Console mounting assembly

Monitor Console mounted on Panavise

Use #2 HEX Head Self-drilling screws to secure mount to vehicle's interior roof metal support. Remaining plate holes can be used to secure cables as needed.

Headliner

Sun Visor Clip Slot

Sun Visor

Vehicle Front

Passenger Side

This document consists of general capabilities information that is not defined as controlled technical data under ITAR part 120.10 or EAR

Charger Installation

Vehicle Side View

Vehicle windshield

Liner

Windshield Bracket is placed against glass inside surface

Location C Apply pressure

B

Panavise Mount

Visor

Visor Clip

Location A -Secure with two supplied #2 HEX Head Self-drilling 8-18 x 1" L Screws (Note Ceiling View)

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly (MV-727-06)

Installation Steps:
1. Install Visor Clip and align mount assembly. Secure in place (Location A) using supplied #2 Hex Head Self-drilling screws.
2. Loosen two side screws that lock the Windshield Bracket to the mount plate.
3. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.

Small plate slides into the Monitor Console rear mounting slot.

IMPORTANT: Preload must be applied to Bracket B in order to reduce unwanted mount movements.

Headliner View

Driver Side

Windshield Glass

Front Facing Camera

Windshield foot locking screw

Location of Front Facing Camera Mount

Rearview Mirror

Monitor Console mounted on Panavise

Use #2 HEX Head Self-drilling screws to secure mount to vehicle's interior roof metal support. Remaining plate holes can be used to secure cables as needed.

Headliner

Windshield foot locking screw

Panavise Ball for Monitor Console mounting assembly

Sun Visor Clip Slot

Sun Visor

Vehicle Front

Self drilling screws

Passenger Side

Explorer Installation

Vehicle Side View

Fabric and Foam Liner

Inner Metal Roof Support

Visor

Vehicle windshield

Windshield Bracket is placed against glass inside surface

Location A - Secures mount to the vehicle inner roof liner using the supplied #2 HEX Head Self-drilling 8-18 x 1" L Screws

Location C Apply pressure

B

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly (MV-727-06)

Small plate slides into the Monitor Console rear mounting slot

Panavise

Rear View Mirror

D3 Mobile-Vision, Inc

IMPORTANT: Preload must be applied to Bracket B in order to reduce unwanted mount movements.

Headliner View

Windshield Glass

Front Facing Camera

Camera

Windshield bracket locking screw

Location of Front Facing Camera Mount

Windshield bracket locking screw

Rearview Mirror

Panavise Ball for Monitor Console mounting assembly

Vehicle Front

Driver Side

Monitor Console mounted on Panavise

Headliner

Install Self-drilling screws as needed

Install Self-drilling screws as needed

Sun Visor Clip Slot

Sun Visor

Passenger Side

Installation Steps:
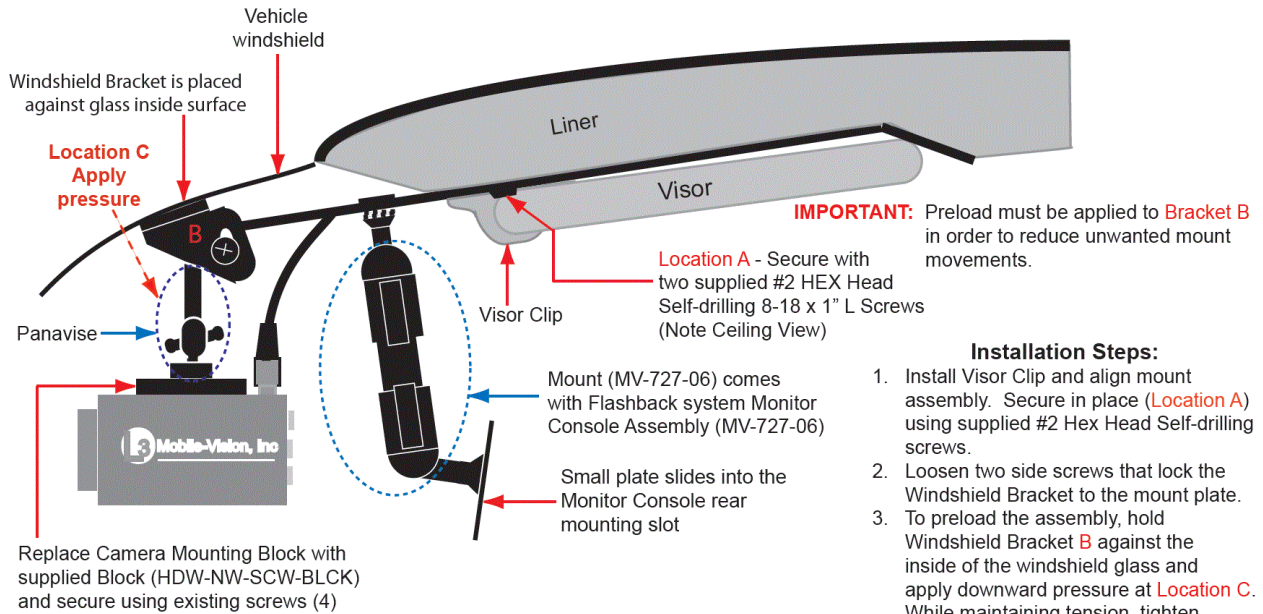1. Install Visor Clip and align mount assembly. Secure in place (Location A) using supplied #2 Hex Head Self-drilling screws.
2. Loosen two side screws that lock the Windshield Bracket to the mount plate.
3. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.
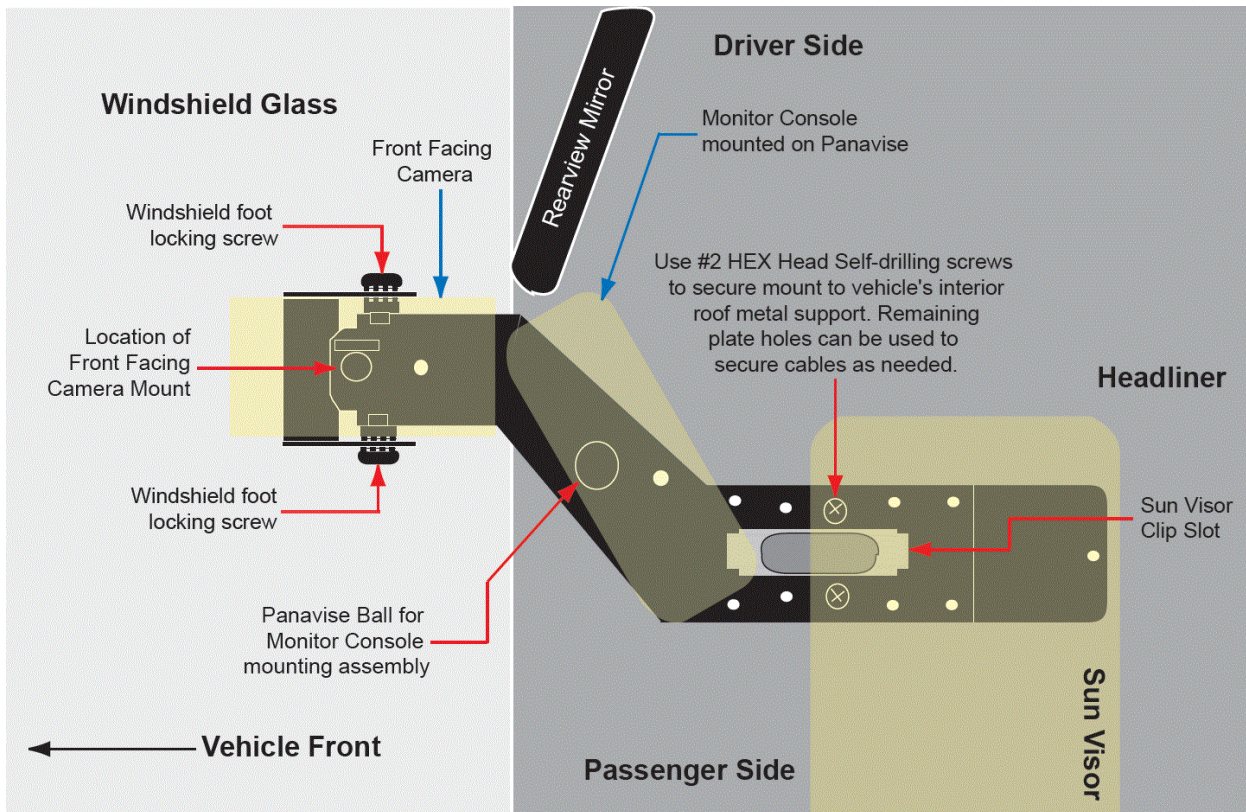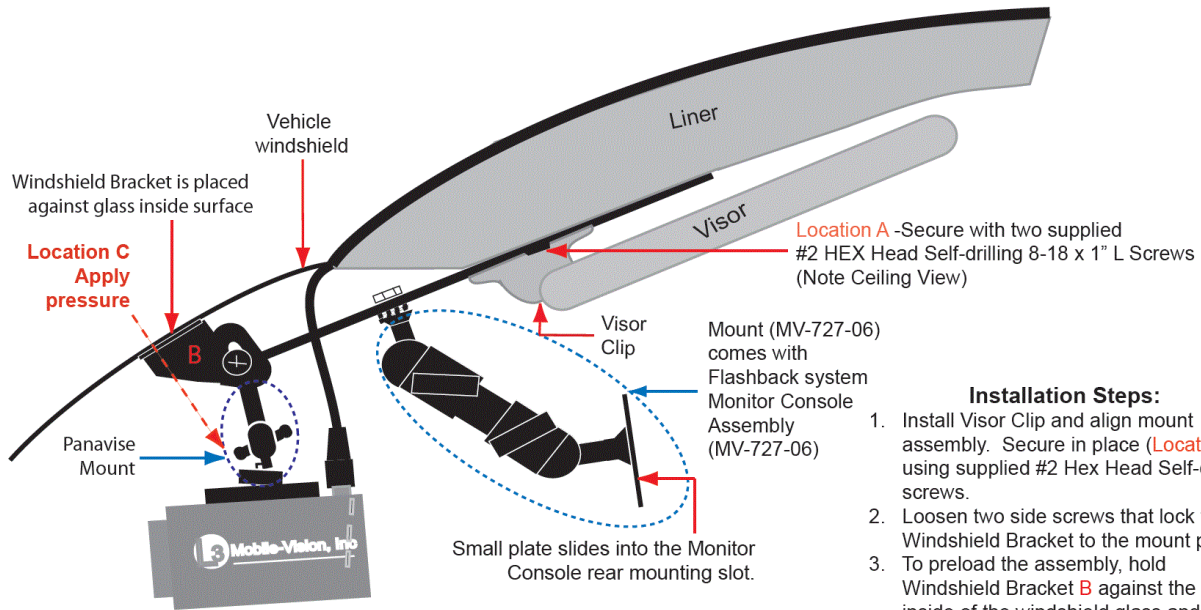
Interceptor Sedan Installation

Vehicle Side View

Vehicle windshield

Windshield Bracket is placed against glass inside surface

Location C Apply pressure

B

Panavise

Rear View Mirror

Small plate slides into Monitor Console rear mounting slot

Inner Metal Roof Support

Fabric and Foam Liner

Visor

"A" Locations
Secure with up to 5 supplied #2 HEX Head Self-drilling 8-18 x 1" L Screws
Note: Screws A2(2ea) and A3(2ea) are covered when Visor Clip is installed

A1 A2 A3

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly (MV-727-06)

IMPORTANT: Preload must be applied to **Bracket B** in order to reduce unwanted mount movements.

Installation Steps:
1. Temporally secure mount to roof using the vehicle's Visor Clip.
2. Location A1 - Align mount assembly and then secure in place with two supplied #2 HEX Head Self-drilling screws.
3. Remove previously installed Visor Clip.
4. Location A2, A3 & A4 - Using three supplied #2 HEX Self-drilling screws, fully secure the mount to the vehicle.
5. Verify that all mounting screws are fully seated.
6. Re-install Visor Clip.
7. Loosen two side screws that lock the Windshield Bracket to the mount plate.
8. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.
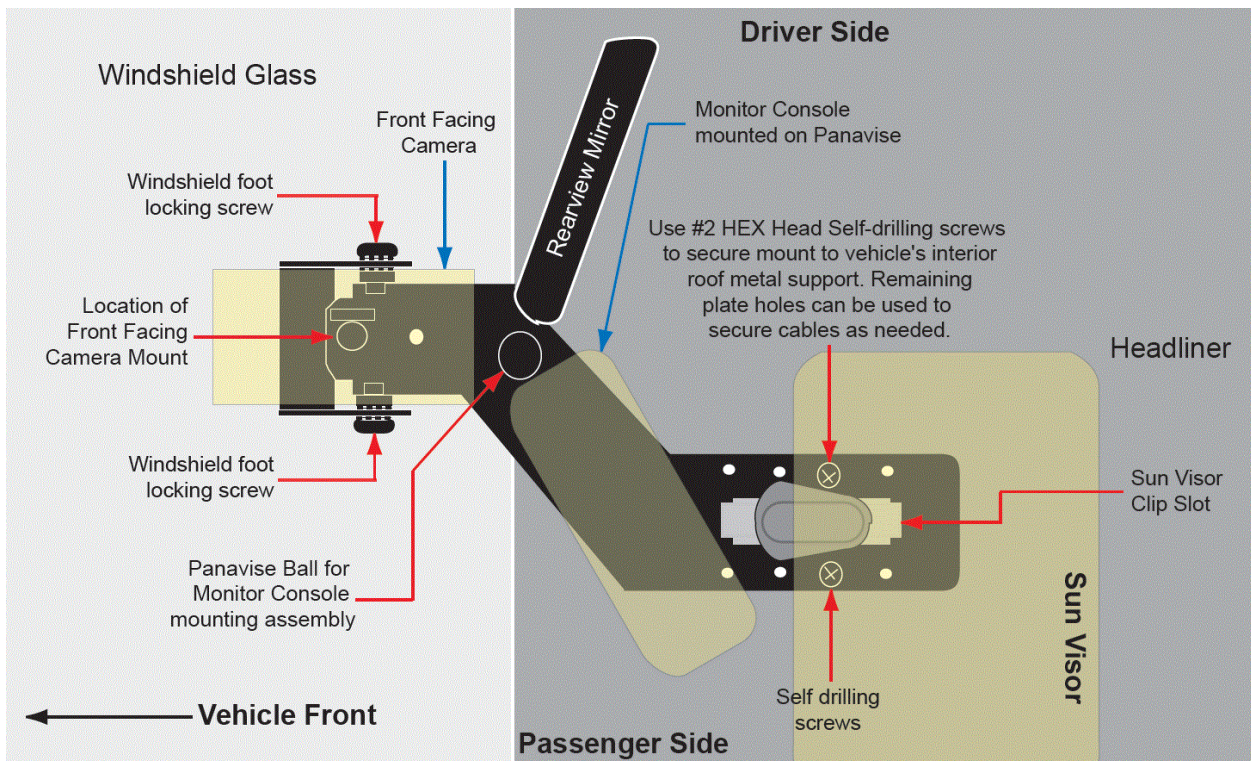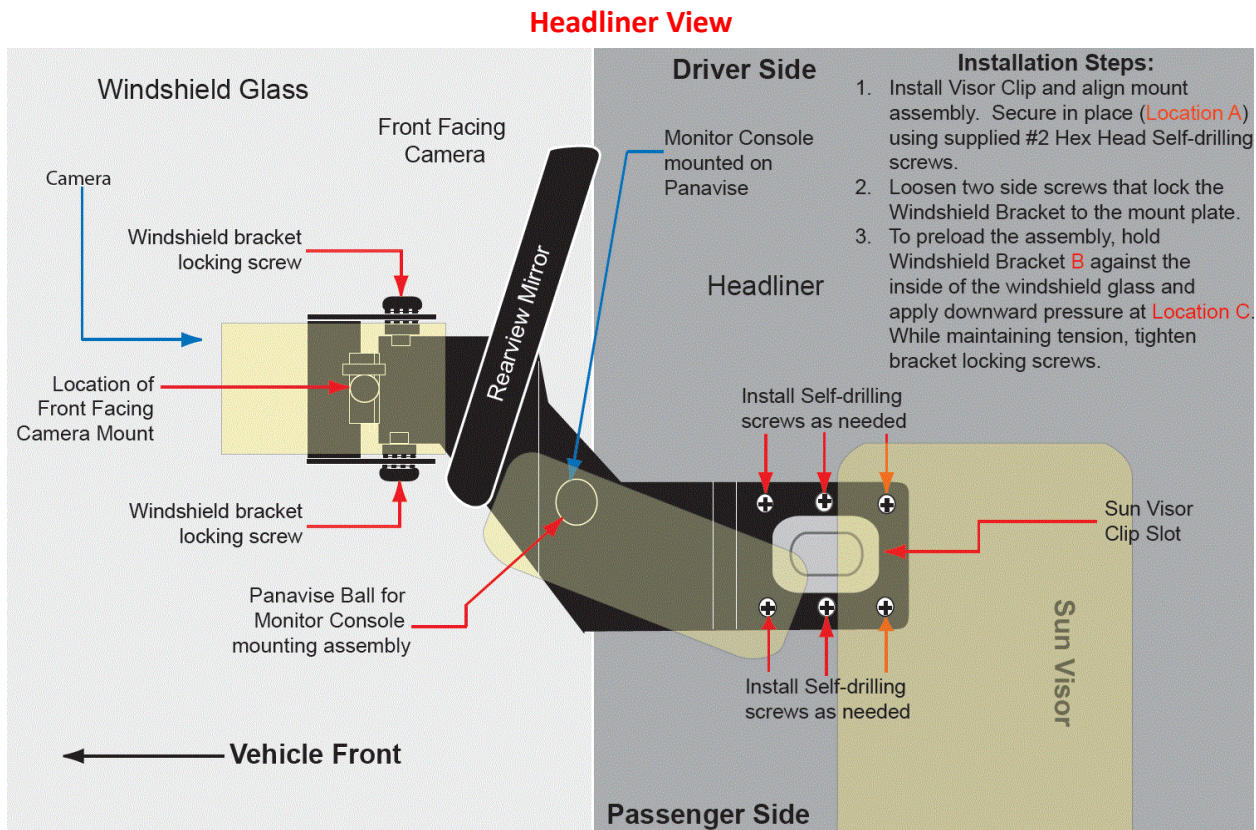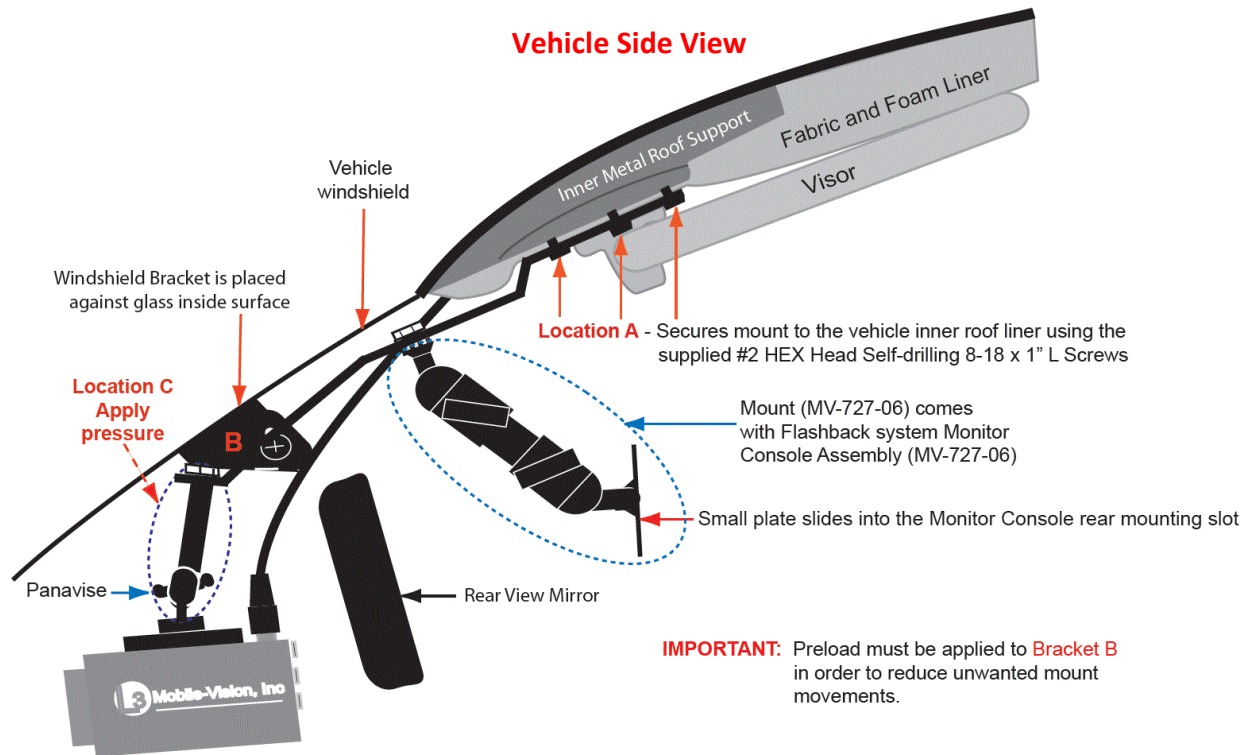
Headliner View

Windshield Glass

Driver Side

Front Facing Camera

Camera

Windshield foot locking screw

Location of Front Facing Camera Mount

Windshield foot locking screw

Optional Panavise Ball Location for Monitor Console mounting assembly

Panavise Ball for Monitor Console mounting assembly

Monitor Console mounted on Panavise

Headliner

A2 & A3 Self drilling screws

A1 Self drilling screws

Sun Visor Clip Slot

Plate Cutout

A4 Self drilling screws

A1 Self drilling screws

Sun Visor

Vehicle Front

Passenger Side

Tahoe Installation

Vehicle Side View

Vehicle windshield

Windshield Bracket is placed against glass inside surface

Location C Apply pressure

Liner

Visor

B

Panavise

Visor Clip

Location A -Secure with two supplied #2 HEX Head Self-drilling 8-18 x 1" L Screws (Note Ceiling View)

Mount (MV-727-06) comes with Flashback system Monitor Console Assembly (MV-727-06)

Small plate slides into Monitor Console rear mounting slot.

Replace Camera Mounting Block with supplied Block (HDW-NW-SCW-BLCK) and secure using existing screws (4)

IMPORTANT: Preload must be applied to Bracket B in order to reduce unwanted mount movements.

Installation Steps:
1. Install Visor Clip and align mount assembly. Secure in place (Location A) using supplied #2 Hex Head Self-drilling screws.
2. Loosen two side screws that lock the Windshield Bracket to the mount plate.
3. To preload the assembly, hold Windshield Bracket B against the inside of the windshield glass and apply downward pressure at Location C. While maintaining tension, tighten bracket locking screws.
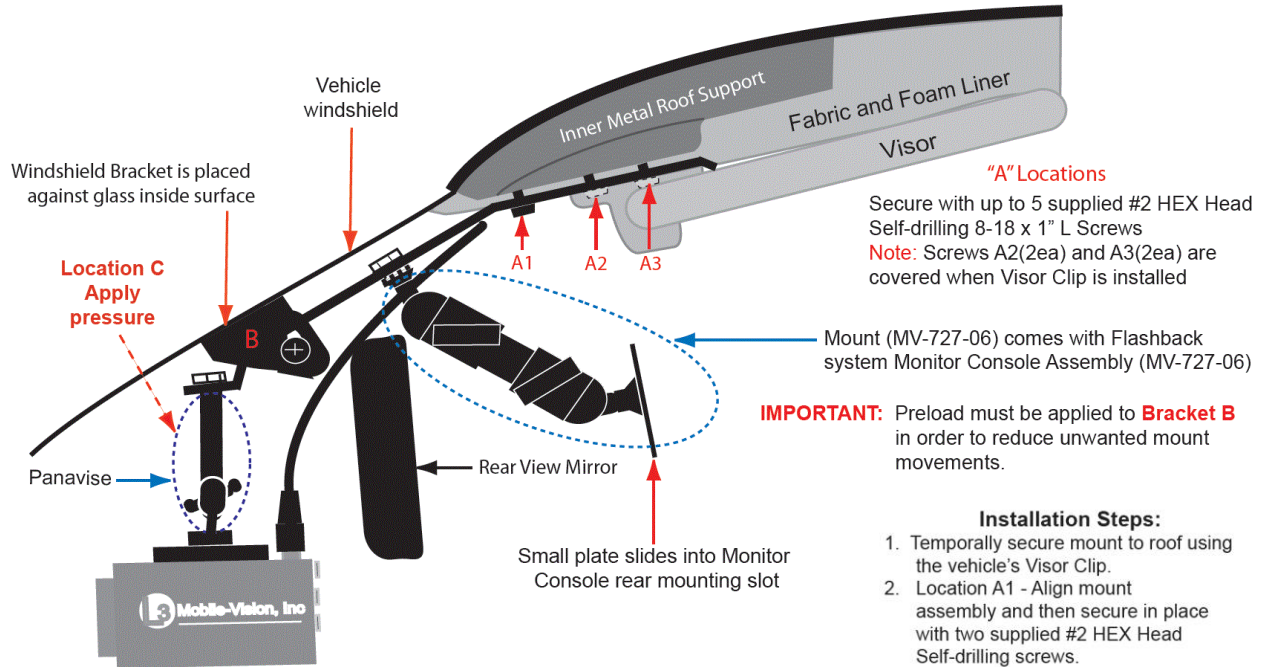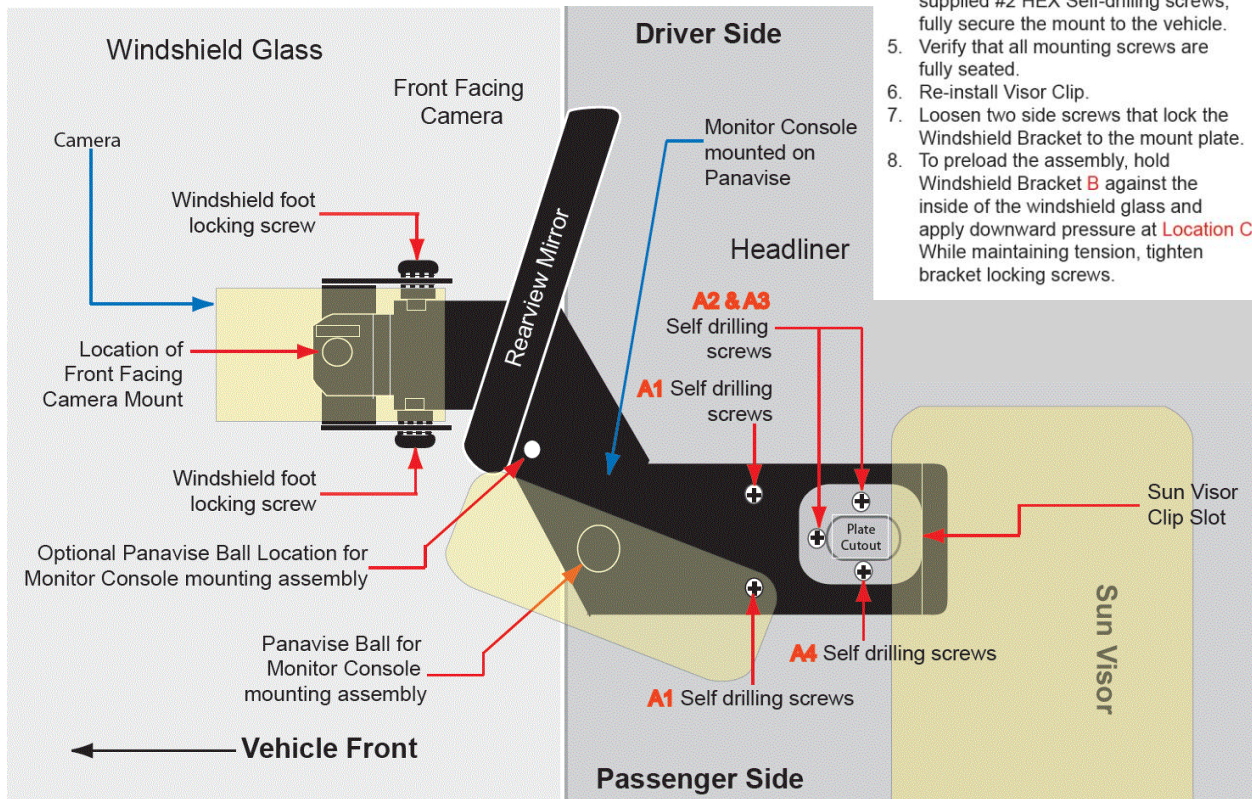
Headliner View

Driver Side

Windshield Glass

Rear View Mirror

Monitor Console mounted on Panavise

Headliner

Front Facing Camera

Windshield foot locking screw

Location of Front Facing Camera Mount

Use #2 HEX Head Self-drilling screws to secure mount to vehicle's interior roof metal support. Remaining plate holes can be used to secure cables as needed.

Windshield foot locking screw

Panavise Ball for Monitor Console mounting assembly

Sun Visor Clip Slot

Vehicle Front

Passenger Side

**Sun Visor**

## Attaching Mounting Button to the Windshield

In order to achieve proper adhesion, follow these instructions exactly as written. For proper adhesion, the windshield temperature must be between 50°F and 75°F (10° and 24°C). Do not install mounting button outside of this temperature range.

1 If you are replacing a previously installed mount, thoroughly scrape the inside windshield glass and the mounting button with a safety razor to remove any old adhesive.

2 Identify the location for the mount and wipe clean with the attached Alcohol Prep Pad.

3 Squeeze the activator tube until the vial inside breaks, releasing activator to the felt tip. Remove the paper sleeve.

4 Apply a generous amount of the activator to the smooth side of the mounting button and the windshield's button location.

5 Allow the activator to evaporate; this will take approximately 30 seconds depending on the temperature.

Windshield side of mounting button
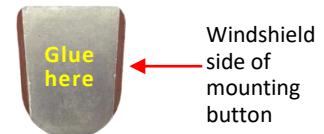
WARNING: After applying the activator, DO NOT touch the mounting surface of the button or the glass.

6 Cut or break off the cap from the adhesive tube and apply a drop of adhesive to the center of the windshield side of the mounting button.

7 Immediately apply the button to the windshield, making sure that the rounded end of the mounting button is pointing *downward*.

8 Hold the mounting button firmly in place for at least **one minute**. Be sure to use enough pressure so that the adhesive is evenly disbursed over the surface of the button. If the button is not firmly adhered after one minute, remove it, clean windshield and button, and reapply.

9 Apply tape across the mounting button to hold it against the windshield. Allow the adhesive to set for at least **one hour** before hanging the camera.

10 Remove tape and clean any excess adhesive from the windshield.

Camera side of mounting button
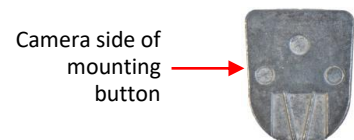
WARNING: Never attempt to remove a properly adhered button. If you make an error, attach a new button in the correct location.

Contact Information

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