

FLASHBACK HD

FLASHBACK 3

In-Car Digital Video Recorder



Interview Room Installation Guide version 3.2.10

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Safe Fleet Mobile-Vision ■ 400 Commons Way, Suite F ■ Rockaway, NJ 07866

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Important Safeguards

Caution: 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 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 Flashback. This could cause electrical shorts, fire, or other damage.

The Flashback3 should be installed by a qualified technician and must conform to SAE Requirements.

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 Flashback3 Digital Video Interview Room System is a digital video recorder and camera that is installed inside an interview room. The Flashback records interrogations and transmits the video to your Flashback storage server. The Flashback3 is part of Mobile-Vision's *Digital Evidence Collection System*. This system is comprised of multiple components, including:

- Flashback DVR
- DVR monitor
- Fix Lens camera
- Interrogation microphone
- Storage server or PC
- Robotic disc burner
- PC workstation (used to control the disc burner)
- Digital Evidence Series software

This installation manual describes how to install the Flashback in an interview room. For more information on the Flashback's functions, features, and menu options, refer to the *Flashback3 User's Guide*. For information on the server software, 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*.



NOTE: 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.

Packing List

This list may vary slightly depending on the options your agency has purchased. Unless otherwise noted, quantity of each component is **1**.

- Flashback3 DVR only (MVD-FB3-DVR), or FlashbackHD complete assembly kit, including fixed lens camera and camera cable (MVD-CAMH-INTR), or Flashback3 DVR assembly kit, excluding cameras and camera cables (MVD-FB3DVS-INTR), or FlashbackHD assembly kit; excluding cameras and camera cables (MVD-FBH-INTR)
- Power Supply, Interview Room (MVD-INT-RM-PS)
- MVD-MC-ASSY, Assy, Flashback Monitor Console
 - MVD-MC Monitor Console, Indoor, Flashback
 - MV-727-06 Mount, Panavise
- MVD-CK-INT-RM, Cable Kit, Flashback DVR–Interview Room
 - W-FB-MC-DVR-4 Cable, Monitor Console, DVR ADPTR 4'
 - W-FB-IO-INT-CA4 Cable, DVR Power & Input, Interview Room, 4'
 - (2) MVD-INTRG-MIC-X Interrogation Room Microphone (X = Selectable lengths)
- MVD-CK-INT-RM, Cable Kit, Flashback DVR–Interview Room (cont'd)
 - W-FB-AV-MC-Y-16 Cable, Monitor/RCA Video/Audio Y

- MVD-FB3-8GBSD, Flash card, 8GB UHS-SD, FB3
- MVD-HK-INT-RM Kit, Flashback Hardware–Interview Room
 - FB3-INT-MAN-USR Manual, Flashback3 User
 - FB3-INT-MAN-INS Manual, Flashback3 Interview Room Installation
 - (2) HDW-DVR-BLOCK Mounting Block
 - (2) HDW-DVR-BRKT230 Bracket, DVR mounting ear 905
 - (2) HDW-DVR-BRKT208 Bracket, DVR mounting ear 820
 - (2) HDW-DVR-BRKT191 Bracket, DVR mounting ear 750
 - HDW-DVR-U-MOUNT Bracket, DVR U-Mount
 - (2) HDW-91185A552 Screw, Thumb
 - (2) HDW-91114A011 Washer, Locking #10 External
 - (8) HDW-965AST312BL Screw, Phillips, M3 x 12mm, Flat Head, Black
 - (4) HDW-20745 Screw, Phillips, 6-32 x 3/8, Pan Head, Black



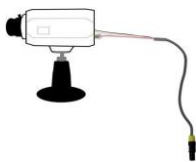
- MVD-FB3-8GBSD memory card, 8GB UHS-SD, FB3
- Camera Option 1:** MVD-CAMH-INTR HD Camera Kit, Interview Room:
 - HD Digital Zoom Camera (pictured) *or* 10x HD Optical Zoom camera
 - Panavise Mount
 - Plenum rated COAX cable: MVD-PLEN100-CBL (100'), MVD-PLEN50-CBL (50'), or MVD-PLEN25-CBL (25')

PIRC1 camera with color upgrade



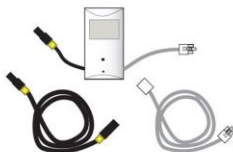
- Camera Option 2:** MVD-CAM-PIR-OPT Camera, PIRC1 with Color Upgrade, Interview Room
 - MVD-PIRC1-COLOR Camera, Alarm IR motion detector with color upgrade
 - CO-PAG.AC65X Connector, Lemo Plug, 5-pin, no dress nut
 - CO-PAG.13.OUJ.01 Nut, Dress, Lemo, Yellow
 - W-FB-PIR-CAM-CX Cable, PIRC1 Camera Extension (X = customer selected length)
 - MVD-INT-CAM-MAN Manual, Interview Room Camera

Fixed Lens Camera



- Camera Option 3:** MVD-CAM-STD-OPT Camera Standard, Interview Room
 - MVD-GN340 Camera, Fixed Lens, without Lens
 - MVD-EV0816F Len 8mm, Manual Focus, F1.6, 1/3" CS
 - MVD-EV0416F Len 4mm, Manual Focus, F1.6, 1/3" CS
 - HDW-MNT-CAM-INT Mount, Camera, Interview Room
 - W-FB2-INT-CAM-X Cable, Camera, Interview Room (X = customer selected length)
 - MVD-INT-CAM-MAN Manual, Interview Room Camera

PIRC1 camera with motion detector



- Camera Option 4:** MVD-PIR-MD-OPT Camera, PIRC1 with Color Upgrade and Motion Detection Auto Record, Interview Room
 - MVD-PIR-CAM-MD Camera, PIRC1 with color upgrade and motion detector pigtail
 - W-PIRCAM-MD-CAX Cable, PIRC1 Camera Motion Detector Extension (X = customer selected length)
 - W-FB-PIR-CAM-CX Cable, PIRC1 Camera Extension (X = customer selected length)



- Camera Option 5: SD Dome Variable Focal Length Camera**
 - MVD-LFM-20VF with BNC connector (pictured left)
 - MVD-CAM-DM-VAR with LEMO connector (available upon request)
- Camera Option 6: SD Dome Fixed Focal Length Camera**
 - MVD-LJL-205 with BNC connector (pictured left)
 - MVD-CAM-DM-3.8 with LEMO connector (available upon request)
- Camera Option 7: Thermostat Camera, MVD-THERM-CAM**



NOTE: If your agency is interested in installing an “interview in progress” light indicator outside your interview room, Mobile-Vision sells an LED output that can be used in conjunction with a DC LED indicator of your choice. To order this part, contact Mobile-Vision Parts Sales at 1-800-336-8475 and request the *Grill LED Assembly* (part no. MVD-GRL-LT-ASSY).

Basic Components

Flashback3 Digital Video Recorder

- Maintenance free
- Uses an efficient MPEG4 compression algorithm
- Records to an SD memory card



Fixed Lens Camera

- Includes 4mm and 8mm lens
- High resolution: 480 TV lines
- Minimum illumination: Day—0.3 lux; Night—0.1 lux
- Auto white balance
- AGC, BLC, flickerless (On/Off)
- Compact size: 55.6 mm (L) x 63.3 mm (W) x 150 mm (D)



Interrogation Microphone

Includes a covert line level microphone with custom wire length.

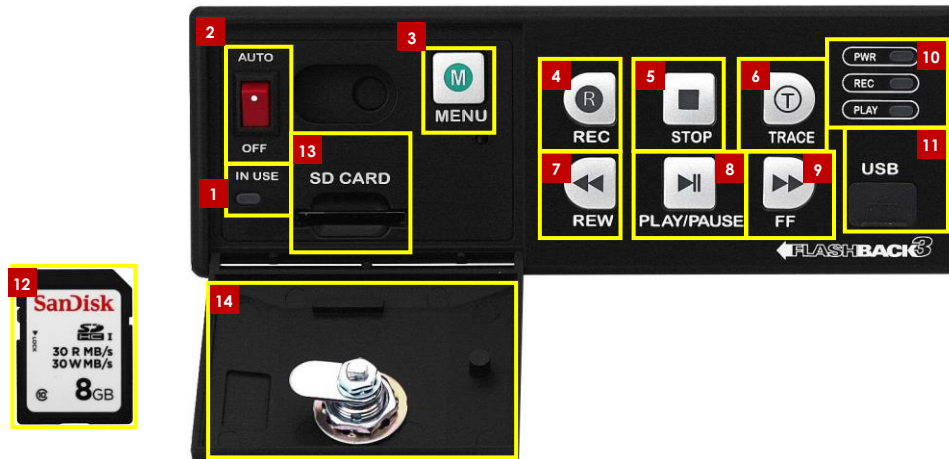








3.5" Active Matrix Monitor/Control Head


Includes audio and DVR control buttons.



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. This switch is normally left in the **AUTO** position, particularly if your DVR is linked to an AUX 2 device.
- 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 *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 *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. 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 *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 *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 *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.
- 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 a video, this door must be *closed and locked*.

* The Play function is not typically used in an Interview Room installation.

Rear Panel of DVR

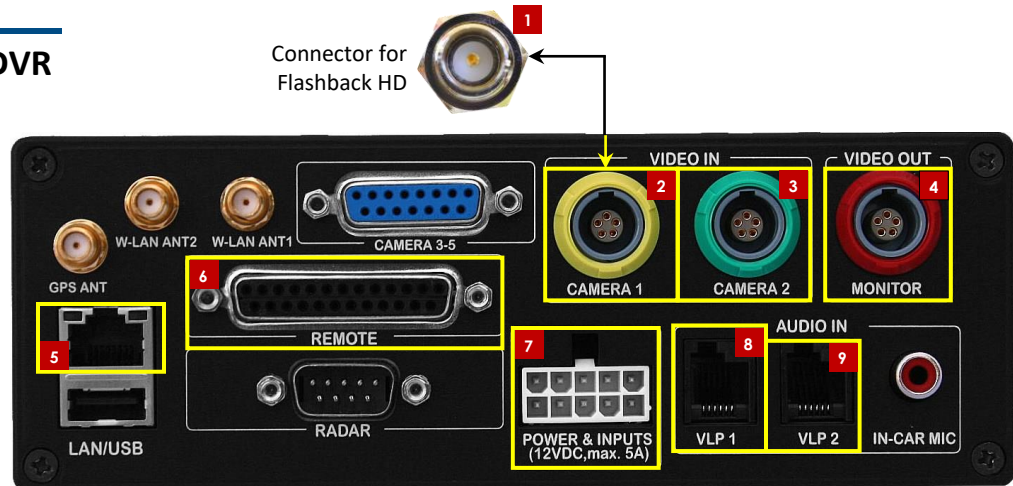



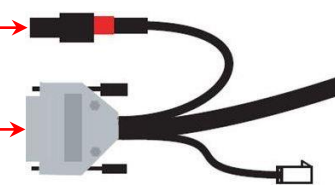
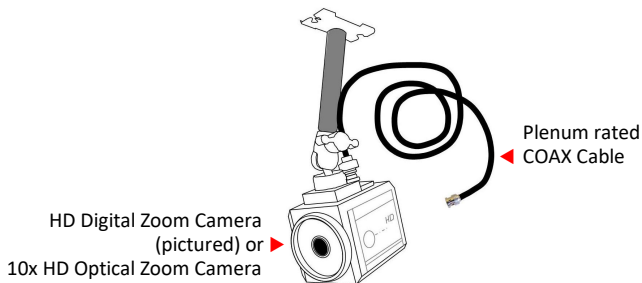
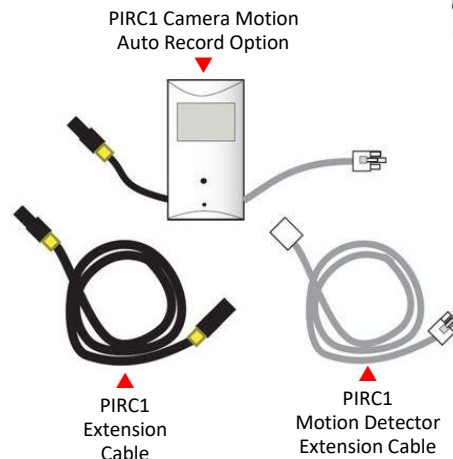
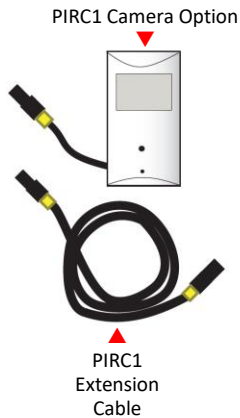
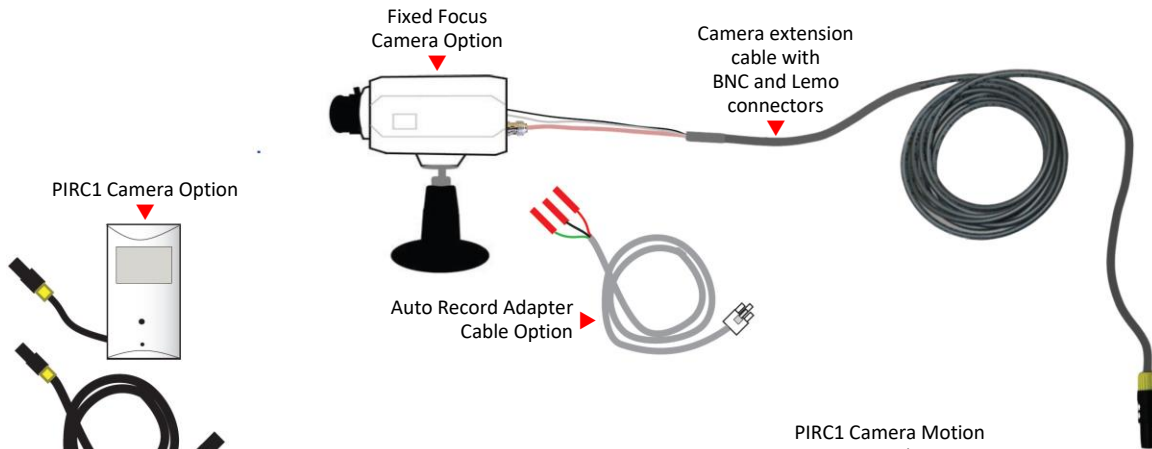
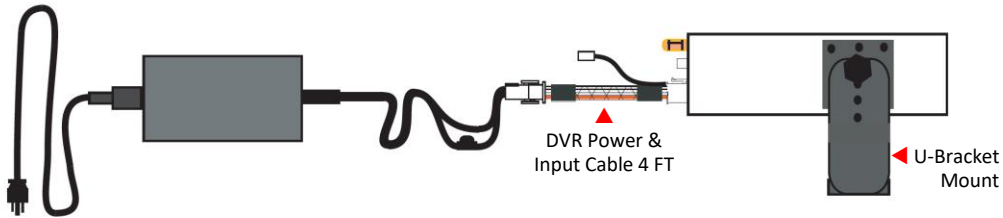
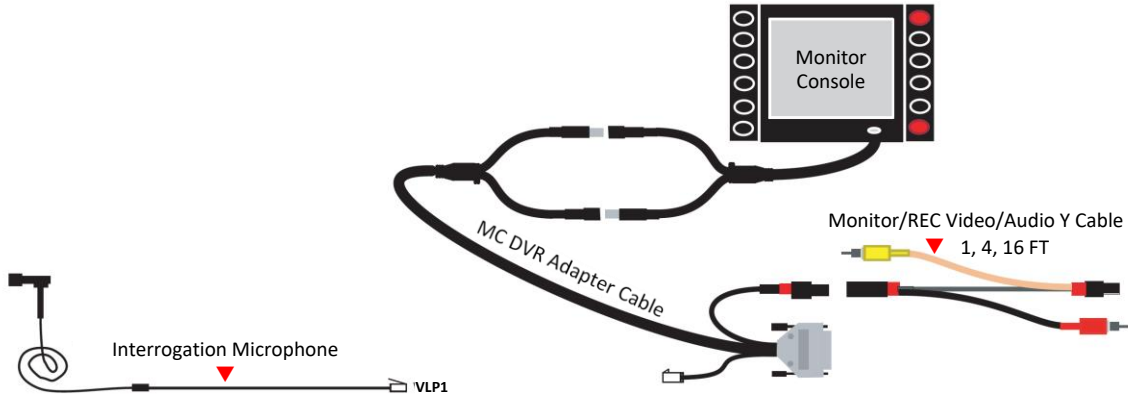


Figure 2: Rear Panel of DVR

- 1** CAMERA 1 (FlashbackHD). Input for HD Zoom camera.
- 2** CAMERA 1 (Flashback3). Input for Fixed Lens camera or PIRC1 camera
- 3** CAMERA 2. Input for optional covert camera (customer supplied). If you have a FlashbackHD, you may also use this port for a Fixed Lens or PIRC1 camera, as CAMERA 1 port is reserved for the HD Zoom camera.
- 4** MONITOR. Connection for Flashback monitor (from REMOTE connector) 
- 5** LAN/(USB). Input for LAN connector. *The USB port is not used in this application.* 
- 6** REMOTE. Connection for Flashback monitor 
- 7** POWER & INPUTS (12VDC, max 5A). Connection for main harness, which houses all the electrical wires.
- 8** VLP1. Input for interrogation microphone 1
- 9** VLP2. Input for interrogation microphone 2



Cables & Connectors





SD Dome Variable Focal Length Camera



SD Dome Fixed Focal Length Camera



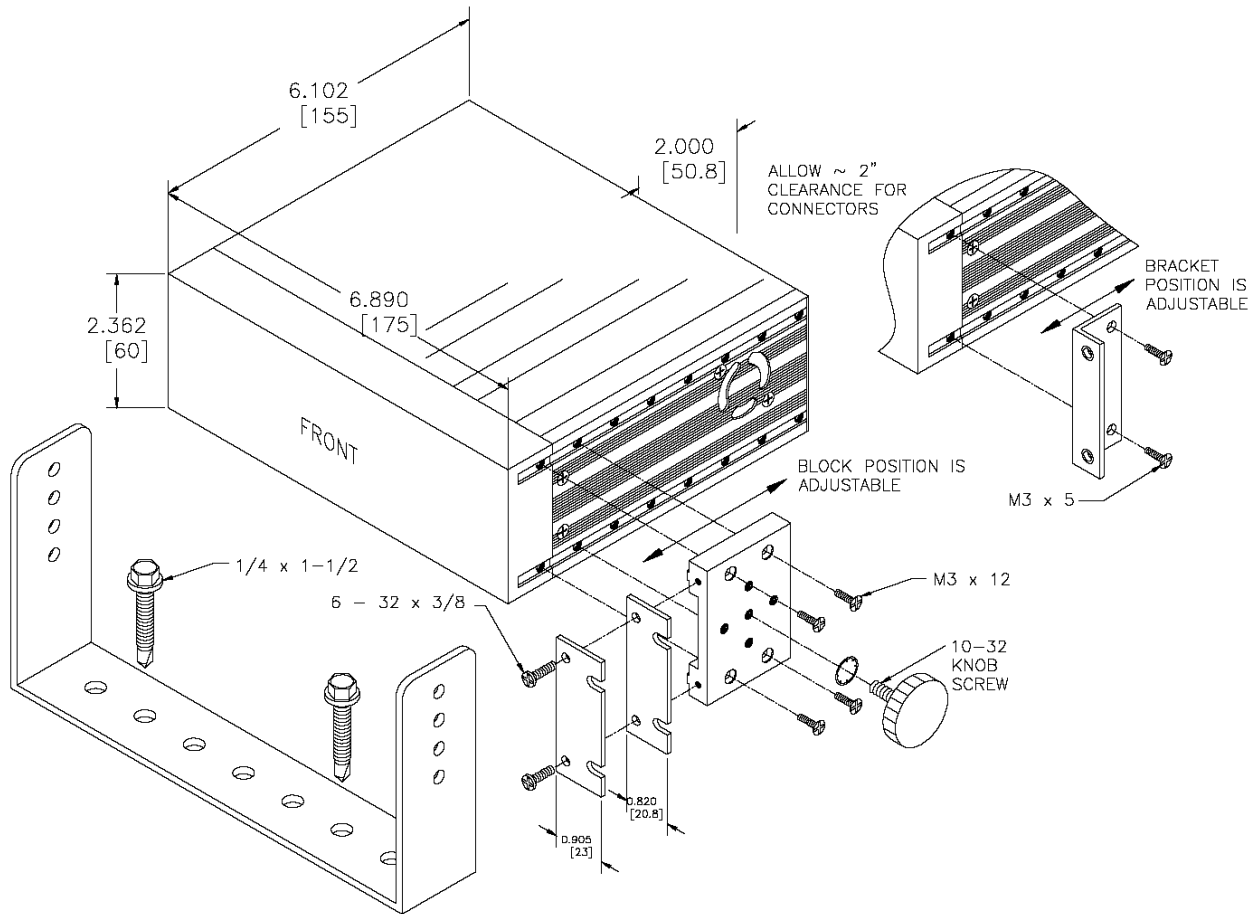
Thermostat Camera

Installation

1

Mount the DVR (optional)

If desired, you can mount the DVR to a table or rack using the provided mount hardware.

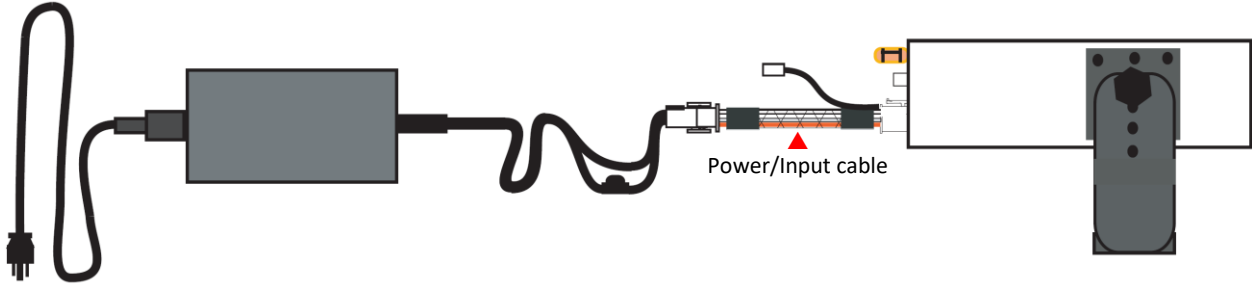


Mounting Components

- | | | | | | | | | | |
|-------|-----------|-----------|------------|---------|----------------------|-----------|--------|-----------|-------------------------|
| | | | | | | | | | |
| 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 |

2 Connect DVR to Power Source

- 1 Connect the DVR to the A/C power adapter using the provided 4' Power/Input cable.



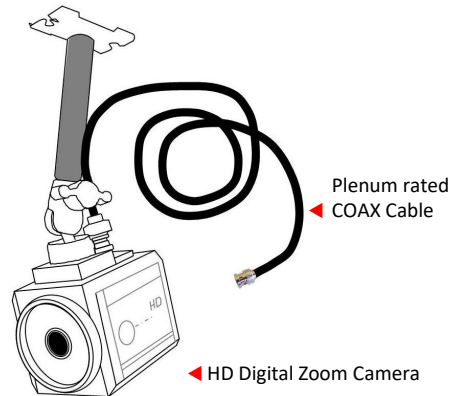
- 2 Plug the A/C adapter into an available wall outlet.

3 Install the Camera

Camera options 1 – 4 connect to Camera Channel 1. These cameras are not designed to be covert. If desired, you may attach a covert SD camera to Camera Channel 2.

Option 1: HD Zoom Camera

- 1 Using the provided hardware, attach the Panavise mount to the ceiling or wall.
- 2 Attach the HD Digital Zoom camera *or* 10x HD Optical Zoom Camera to the Panavise mount.
- 3 Connect the Interview Room Camera Cable to the back of the camera.



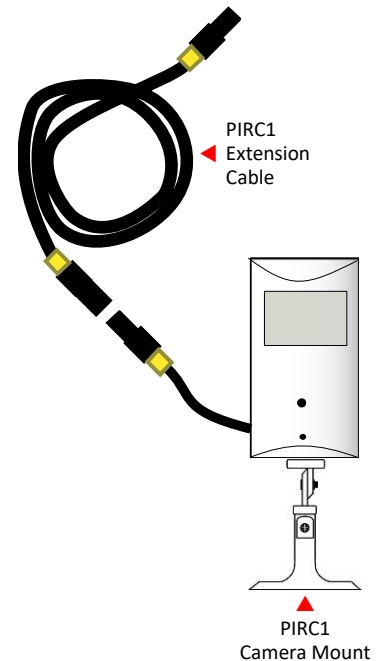
Option 2: Fixed Lens Camera

- 1 Screw the camera mount to a flat, secure surface.
- 2 Attach the Fix Lens Camera to the camera mount.
- 3 Connect the Interview Room Camera Cable to the back of the camera.



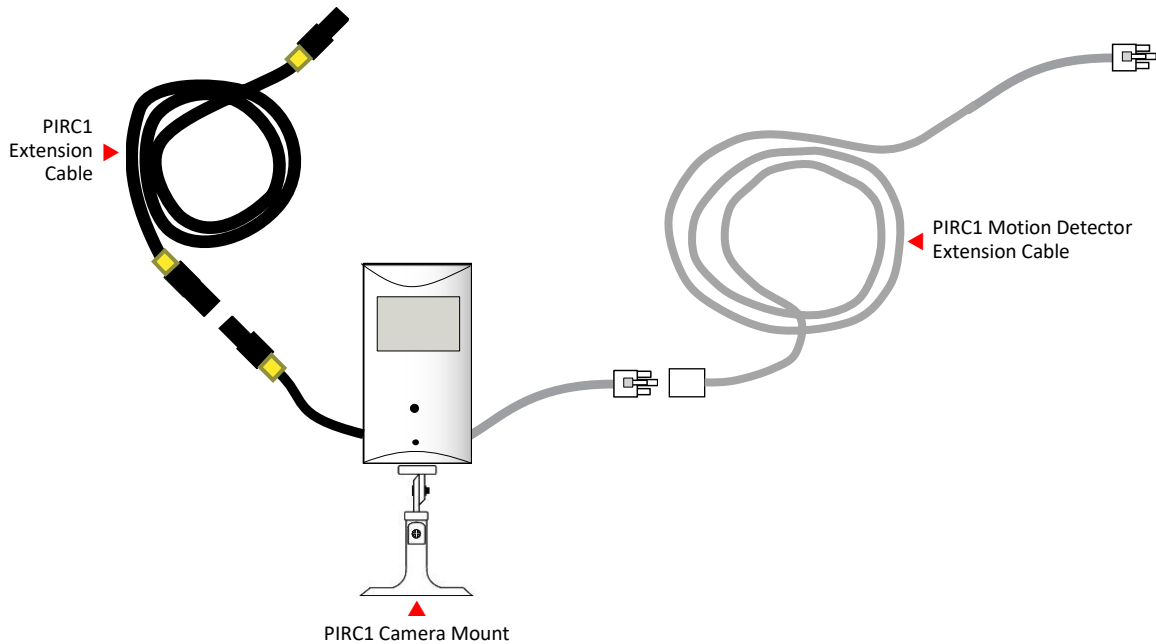
Option 3: PIRC1 Camera with Color Upgrade Option

- 1 Screw the camera mount to a flat, secure surface.
- 2 Attach the PIRC1 Camera to the camera mount.
- 3 Connect the PIRC1 Extension Cable to the camera.



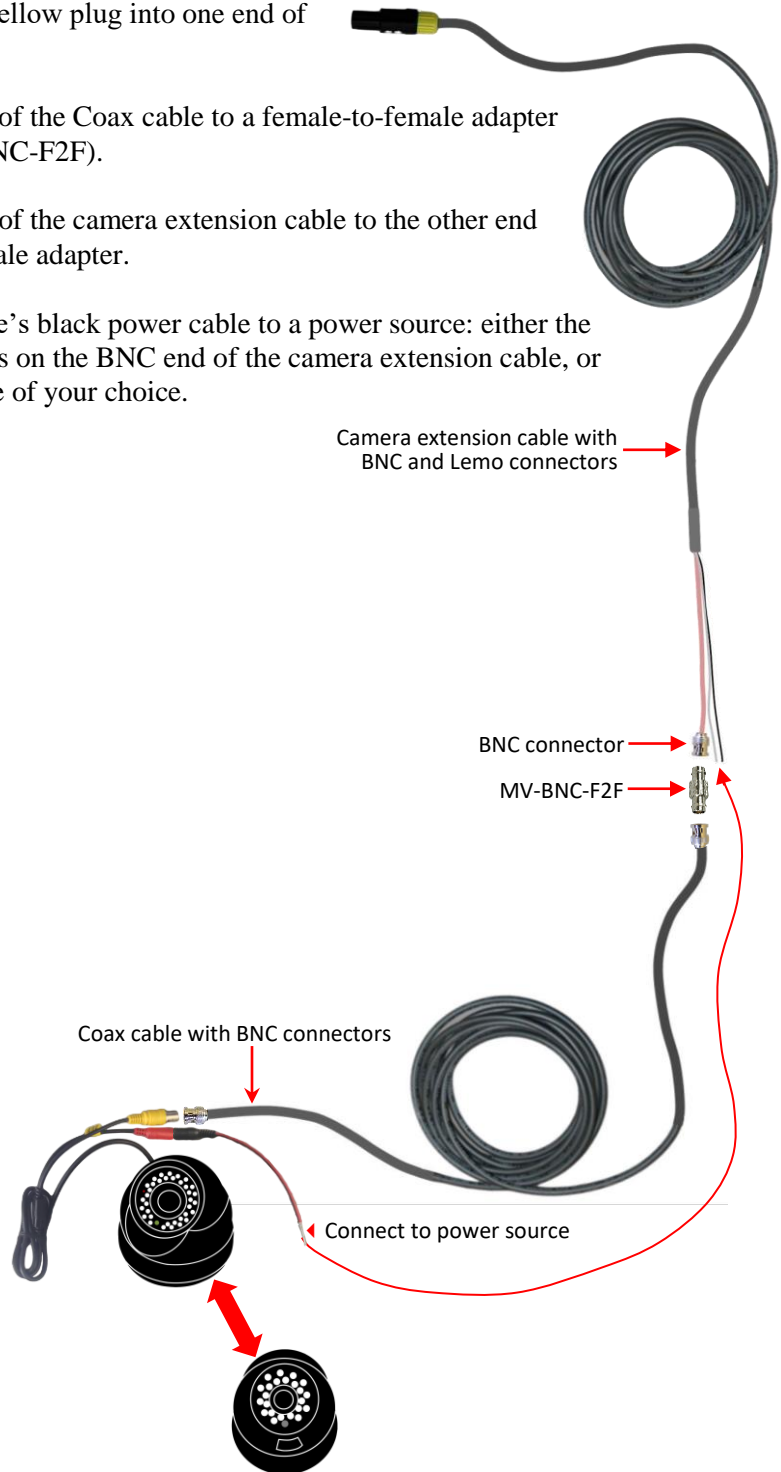
Option 4: PIRC1 Camera with Motion Detect Auto Record Option

- 1 Screw the camera mount to a flat, secure surface.
- 2 Attach the PIRC1 Motion Detector Camera to the camera mount.
- 3 Connect the PIRC1 Extension Cable (pictured left) and PIRC1 Motion Detector Extension Cable (pictured right) to the camera.



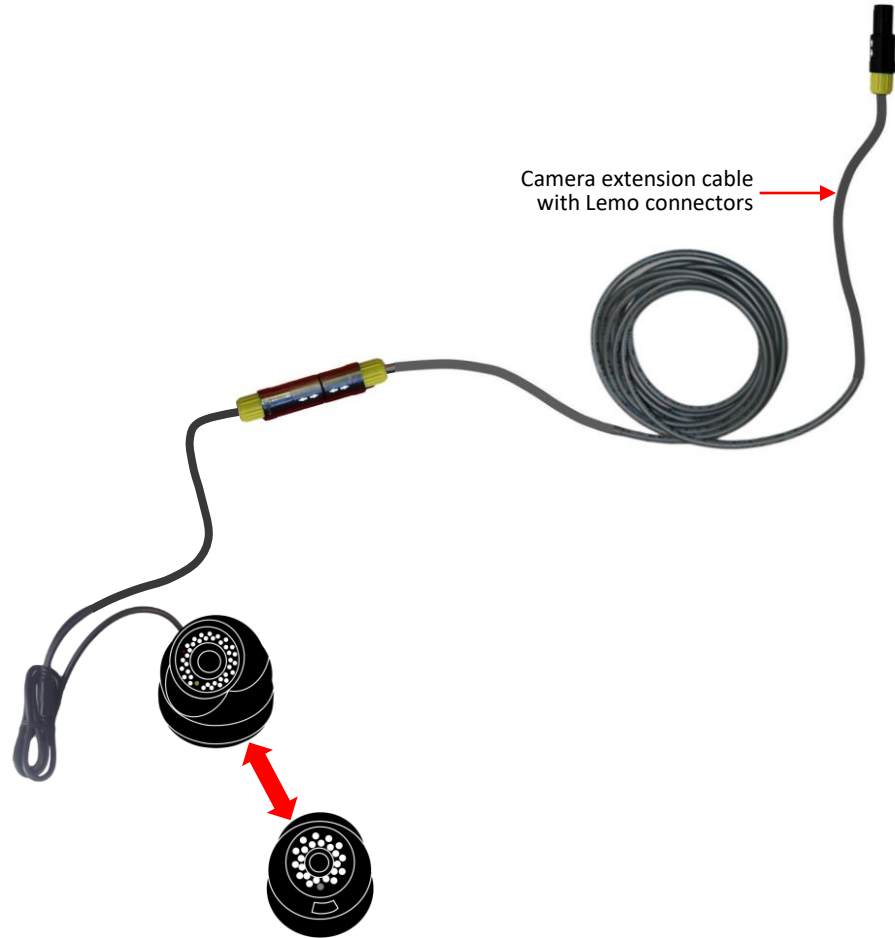
Option 5: SD Dome Camera with BNC Connector (Plenum installation)

- 1 Using the hardware provided, attach the IR Dome camera to a flat, secure surface.
- 2 Insert the camera's yellow plug into one end of the Coax cable.
- 3 Attach the other end of the Coax cable to a female-to-female adapter (part number MV-BNC-F2F).
- 4 Attach the BNC end of the camera extension cable to the other end of the female-to-female adapter.
- 5 Connect the IR Dome's black power cable to a power source: either the black and white wires on the BNC end of the camera extension cable, or another power source of your choice.



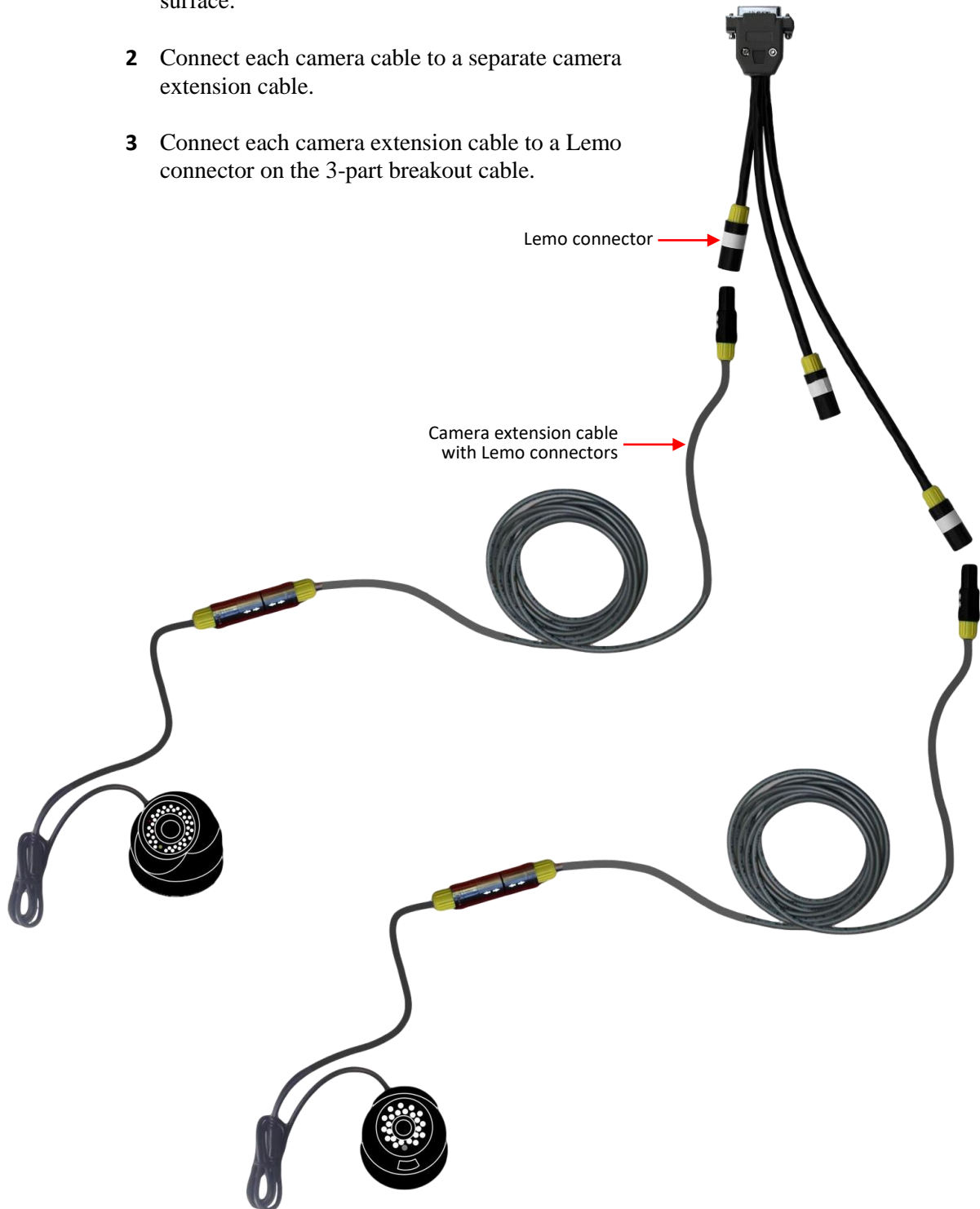
Option 8: SD Dome Camera with Lemo Connector

- 1 Using the hardware provided, attach the IR Dome camera to a flat, secure surface.
- 2 Connect the camera cable to the camera extension cable with Lemo connectors.



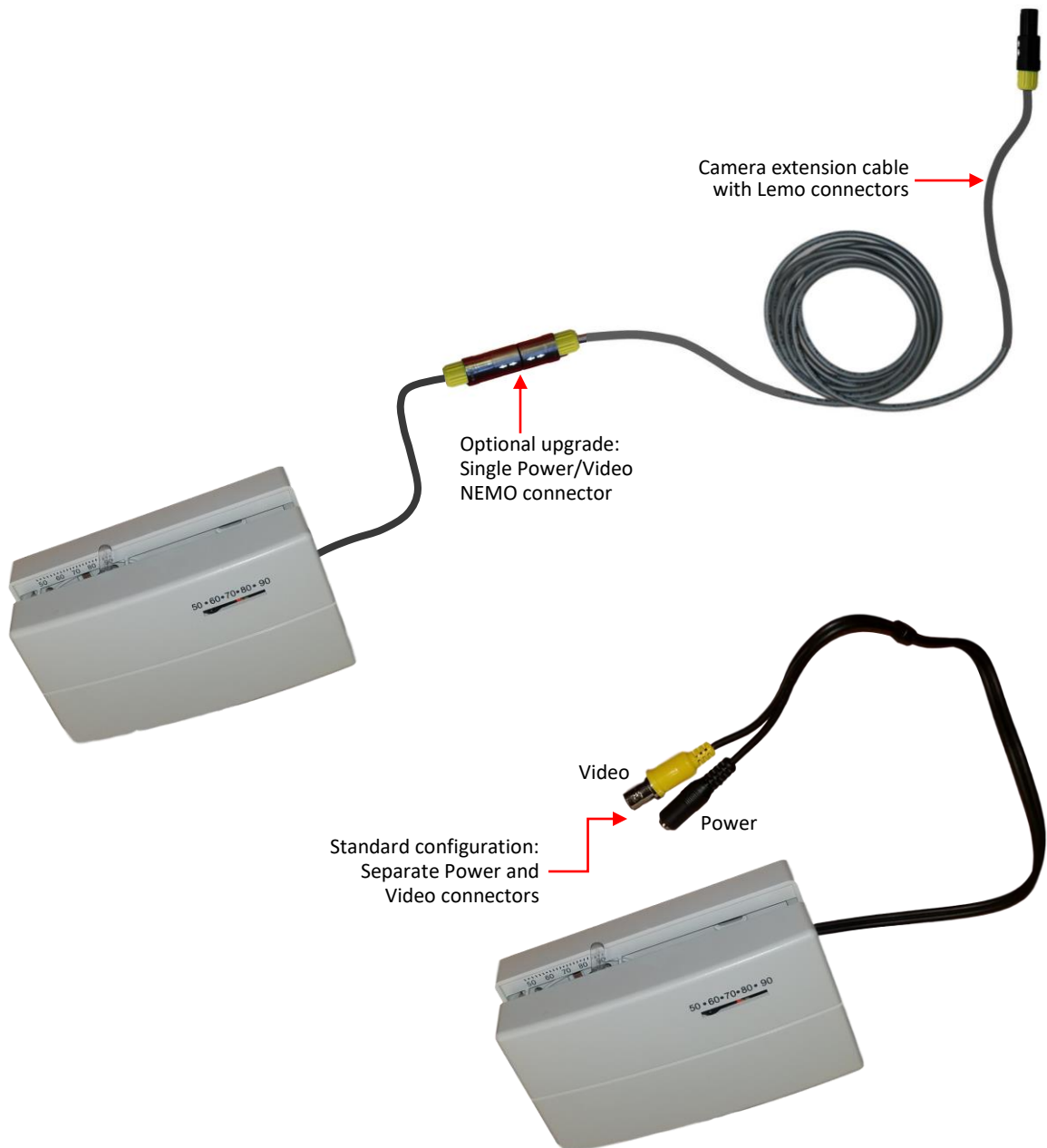
Option 9: Multiple SD Dome Cameras

- 1 Using the hardware provided, attach each of the IR Dome cameras to a flat, secure surface.
- 2 Connect each camera cable to a separate camera extension cable.
- 3 Connect each camera extension cable to a Lemo connector on the 3-part breakout cable.



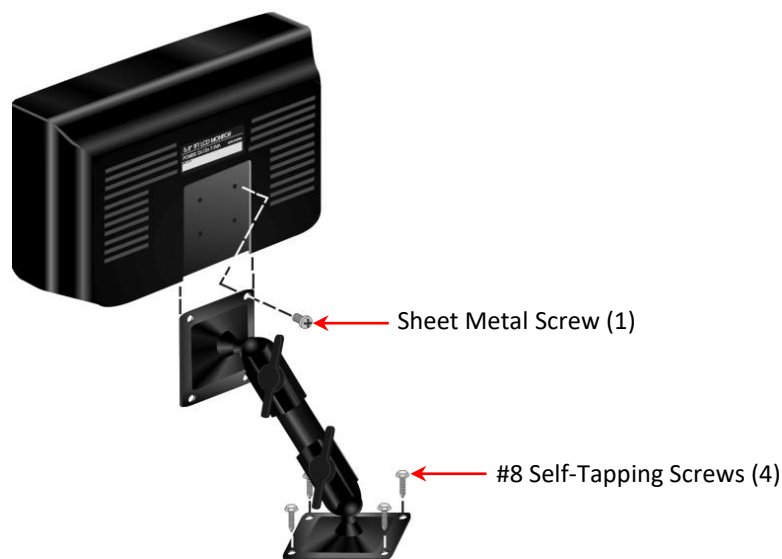
Option 10: Thermostat Camera

- 1 Using the hardware provided, attach the thermostat camera to a flat, secure surface.
- 2 Connect the camera cable to the camera extension cable with LEMO connectors.



4**Attach Monitor Console to Mount (optional)**

- 1 Select a flat, stable surface on which to install the Panavise mount.
- 2 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.
- 3 Secure the mounting arm to your selected mount spot using the supplied self-drilling screws.
- 4 *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.

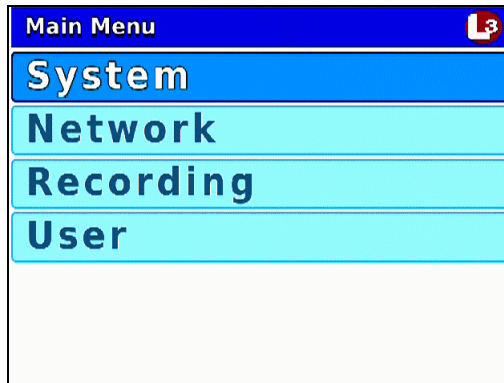
**5****Install Auto Record Feature (optional)**

If desired, you can configure your Flashback system so that the DVR automatically begins recording whenever an associated electric device is turned on. For example, you can link the DVR to a light switch or motion detector so that a recording starts automatically whenever a light switch is turned on or motion is detected, respectively.

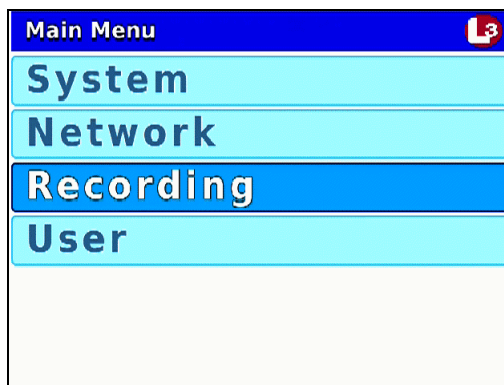
(Continued)

Part 1: Set the AUX 2 and Stop Delay Features on the DVR

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



- 3 Press the **Left Arrow** or **Right Arrow** button until **Recording** is highlighted.



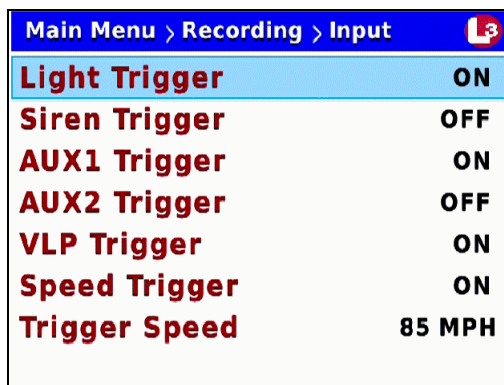
- 4 Press **R** to select the **Recording** option. The Recording menu displays.



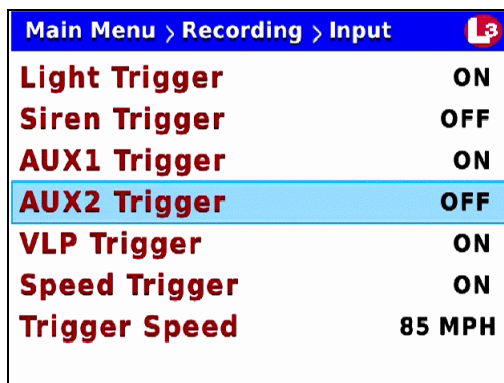
- 5 Press **▶** *twice* to advance to the **Input** option.



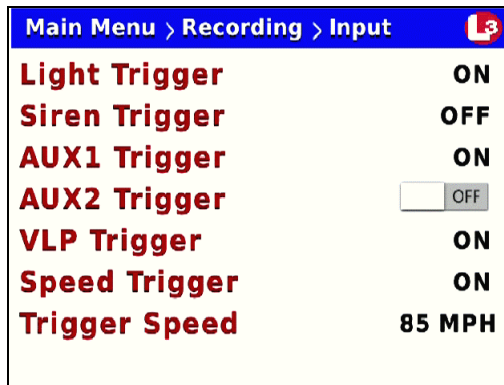
- 6 Press **R** to select the **Input** option. The Input screen displays.





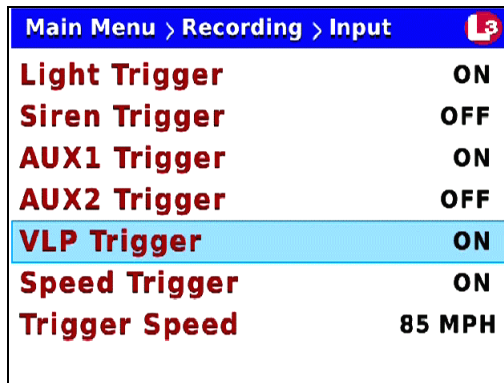
- 7 Press **▶** *three times* to advance to the **AUX2 Trigger** field.




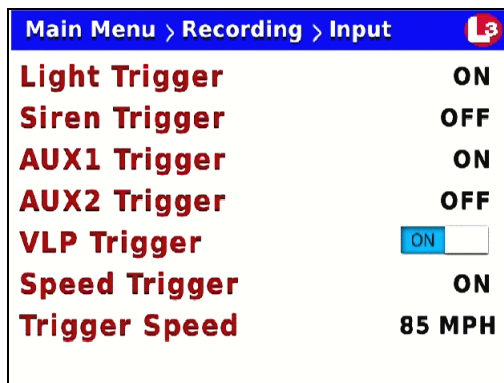
- 8 Press **R** to select the **AUX2 Trigger** field.




- 9 Press  to toggle the field value from **OFF** to **ON**.
- 10 Press  to advance to the *VLP Trigger* field.



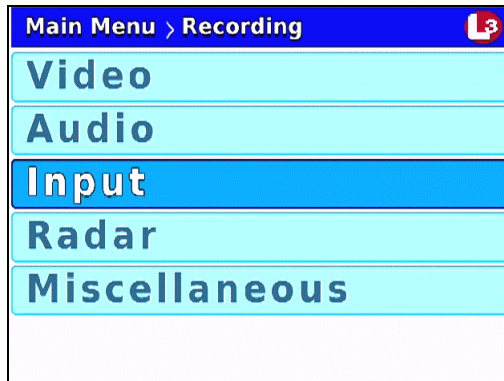
- 11 Press  to select the *VLP Trigger* field.



- 12 Press  to toggle the field value from **ON** to **OFF**.

Next, you need to program the DVR to automatically turn off **X** number of minutes after the trigger activity ceases.

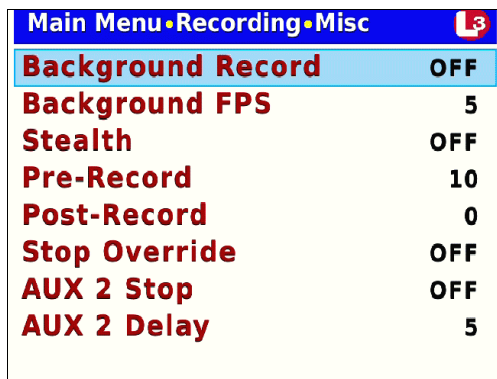
- 13 Press **M** twice to save your changes and return to the Recording menu.




- 14 Press **▶** twice to advance to the **Miscellaneous** option.





- 15 Press **R**. The Misc screen displays.




- 16 Examine the value of the *AUX 2 Stop* field:
- If the value of the *AUX 2 Stop* field is **ON**, press **▶** to advance to the *AUX 2 Delay* field. Next, skip to step 21.
 - If the value of the *AUX 2 Stop* field is **OFF**, press **▶** twice to advance to the *AUX 2 Stop* field.


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


- 17 Press  to select the *AUX 2 Stop* field.

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


- 18 Press  to change the value of the *AUX 2 Stop* field from **OFF** to **ON**.



- 19 Press .

- 20 Press  to advance to the *AUX 2 Delay* field.

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

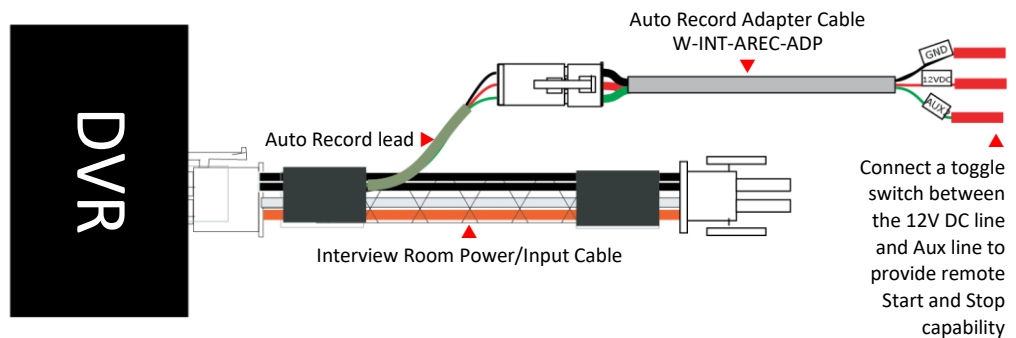
- 21 Press **R** to select the *AUX 2 Delay* field.

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

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

Part 2: Connect the DVR to the AUX2 Device

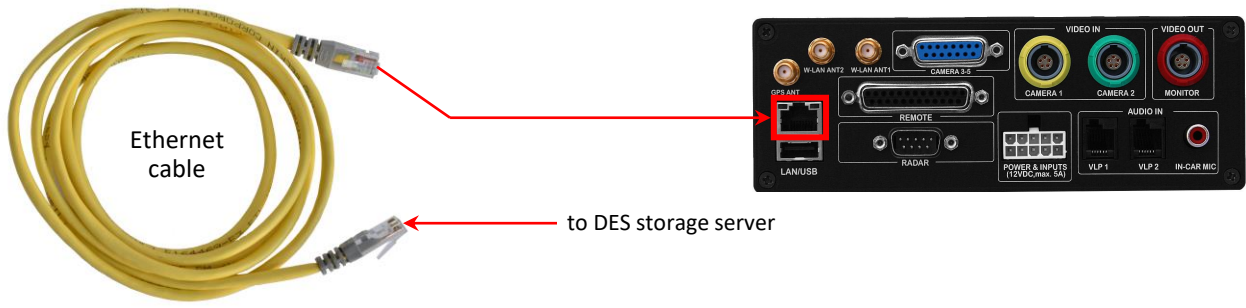
Using the provided Auto Record Adapter Cable, connect the DVR to your AUX 2 device, such as a power switch.



6

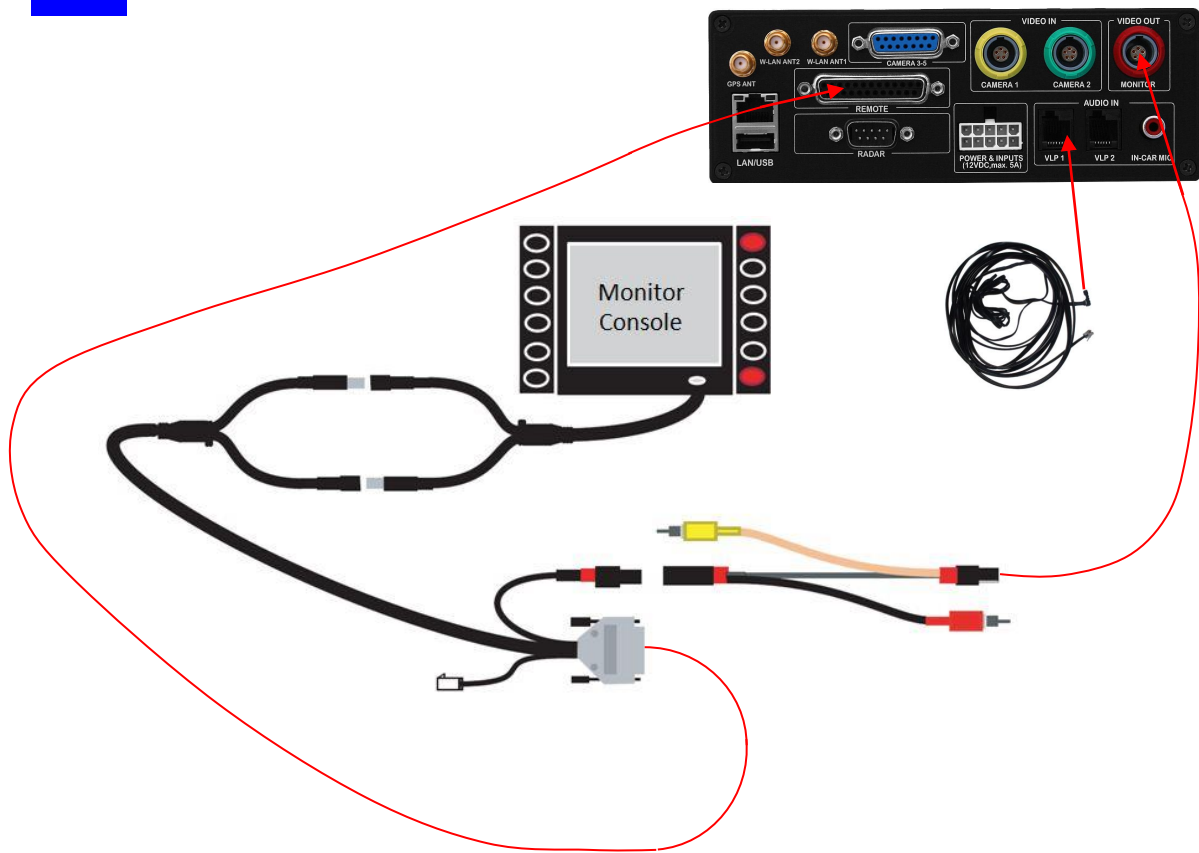
Connect Ethernet Cable

Connect the yellow Ethernet cable (MVD-CAT5XVR-25) from your DES server to the LAN port on the DVR, as pictured below. This cable comes in 2 lengths: 7 feet (MVD-CAT5E-Y) and 25 feet (MVD-CAT5XVR-25).



7

Connect Monitor & Microphone to DVR

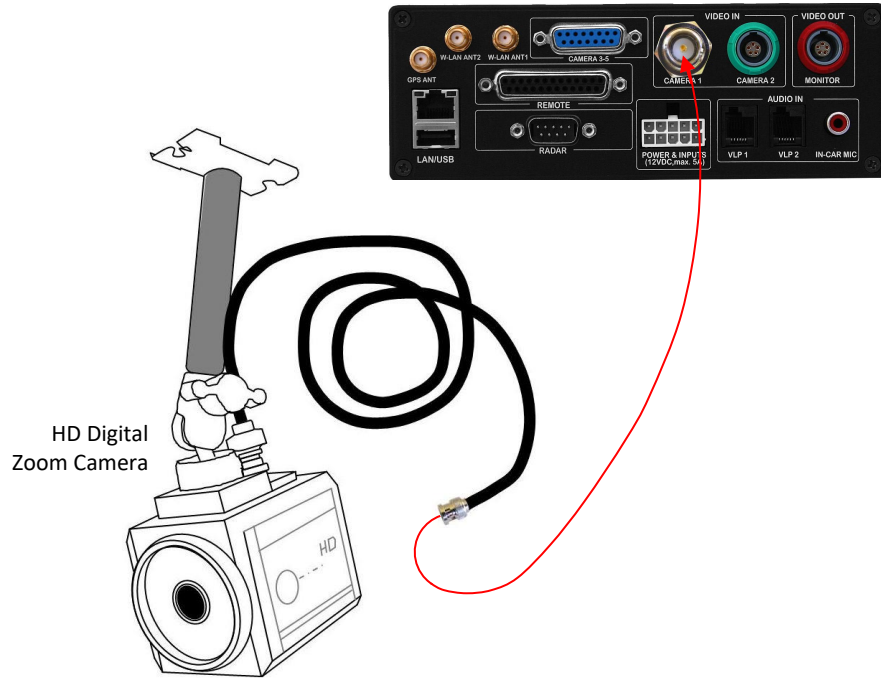


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Connect Camera to DVR

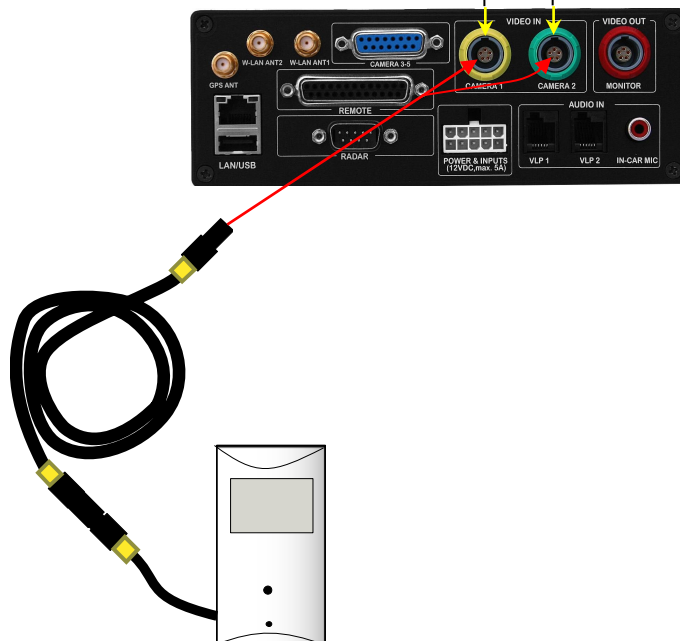
Option 1: HD Zoom Camera



Option 2: PIRC1 Camera with Color Upgrade Option

If using as a primary camera with Flashback3, connect to this port

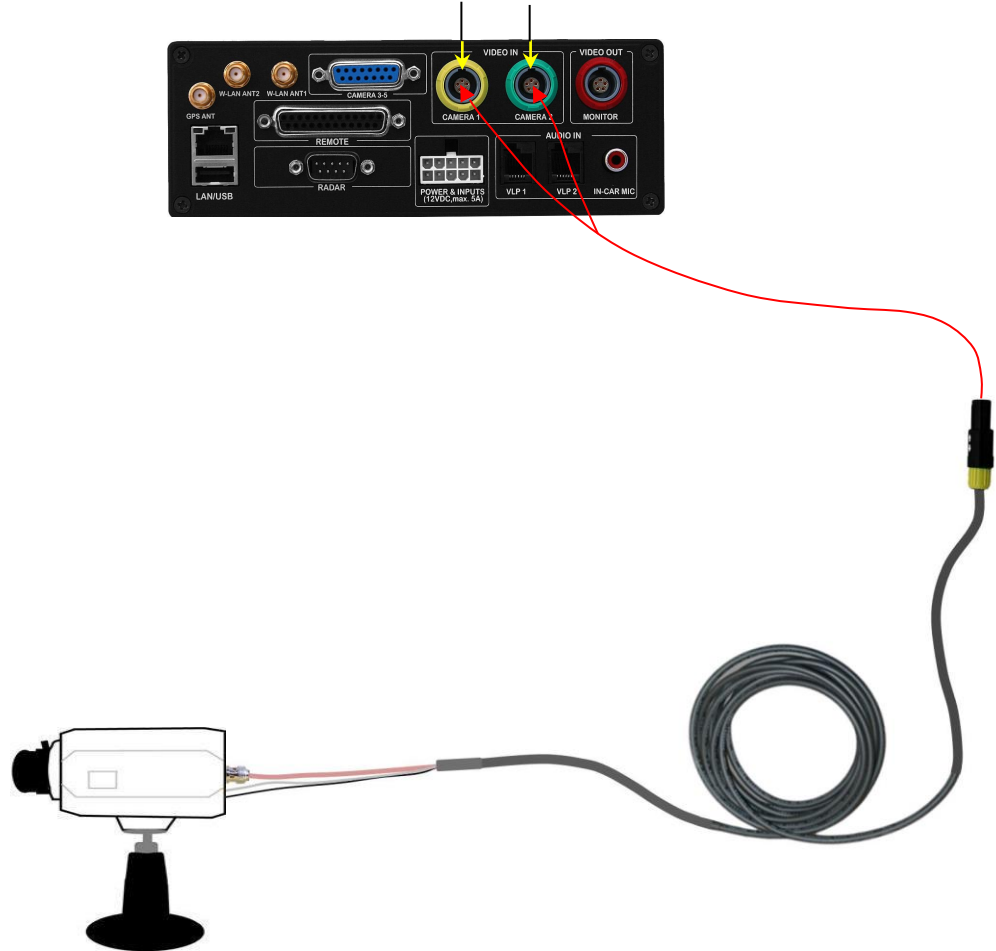
If using as a secondary camera with Flashback3 or FlashbackHD, connect to this port



Option 3: Fixed Lens Camera

If using as a primary camera with Flashback3, connect to this port

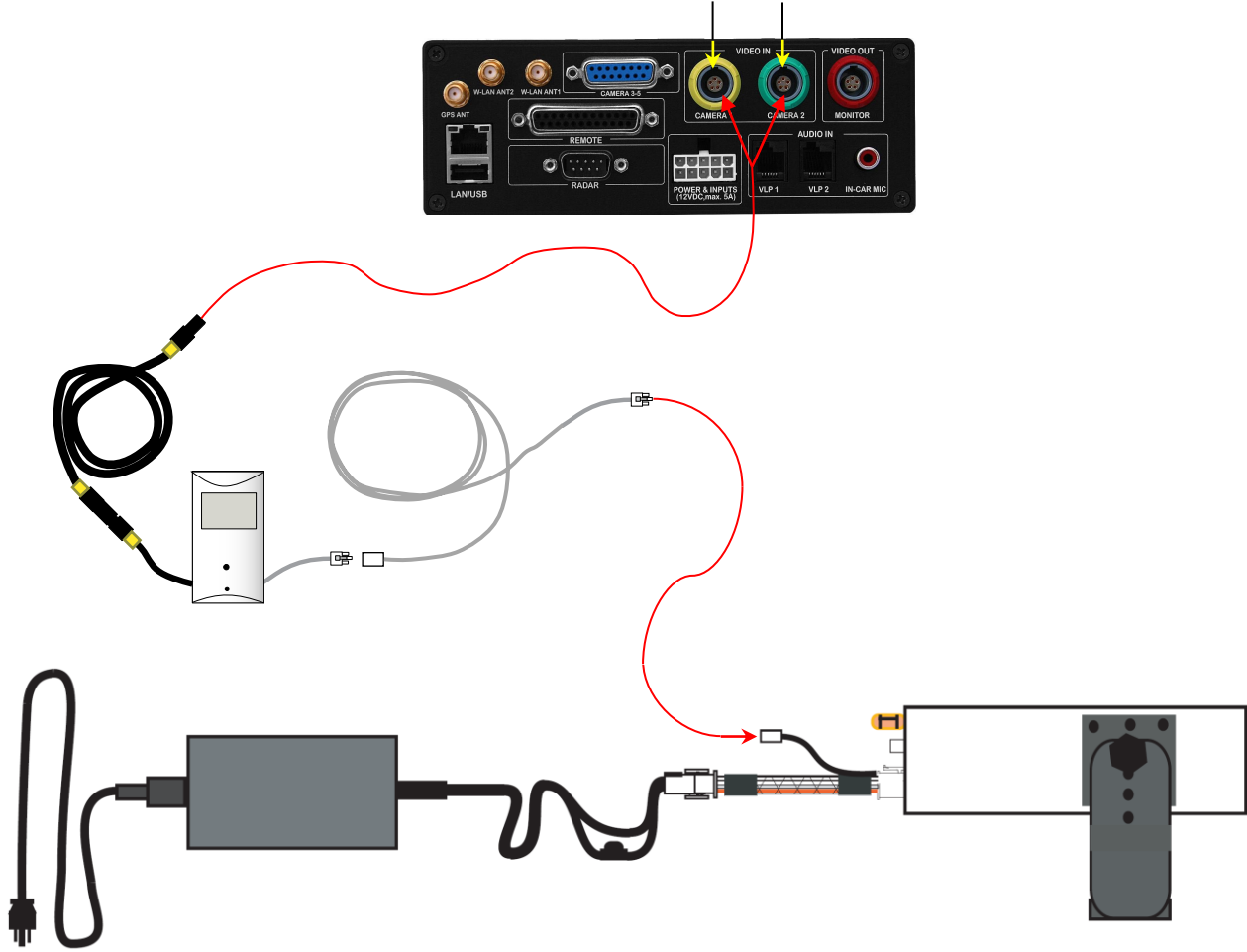
If using as a secondary camera with Flashback3 or FlashbackHD, connect to this port



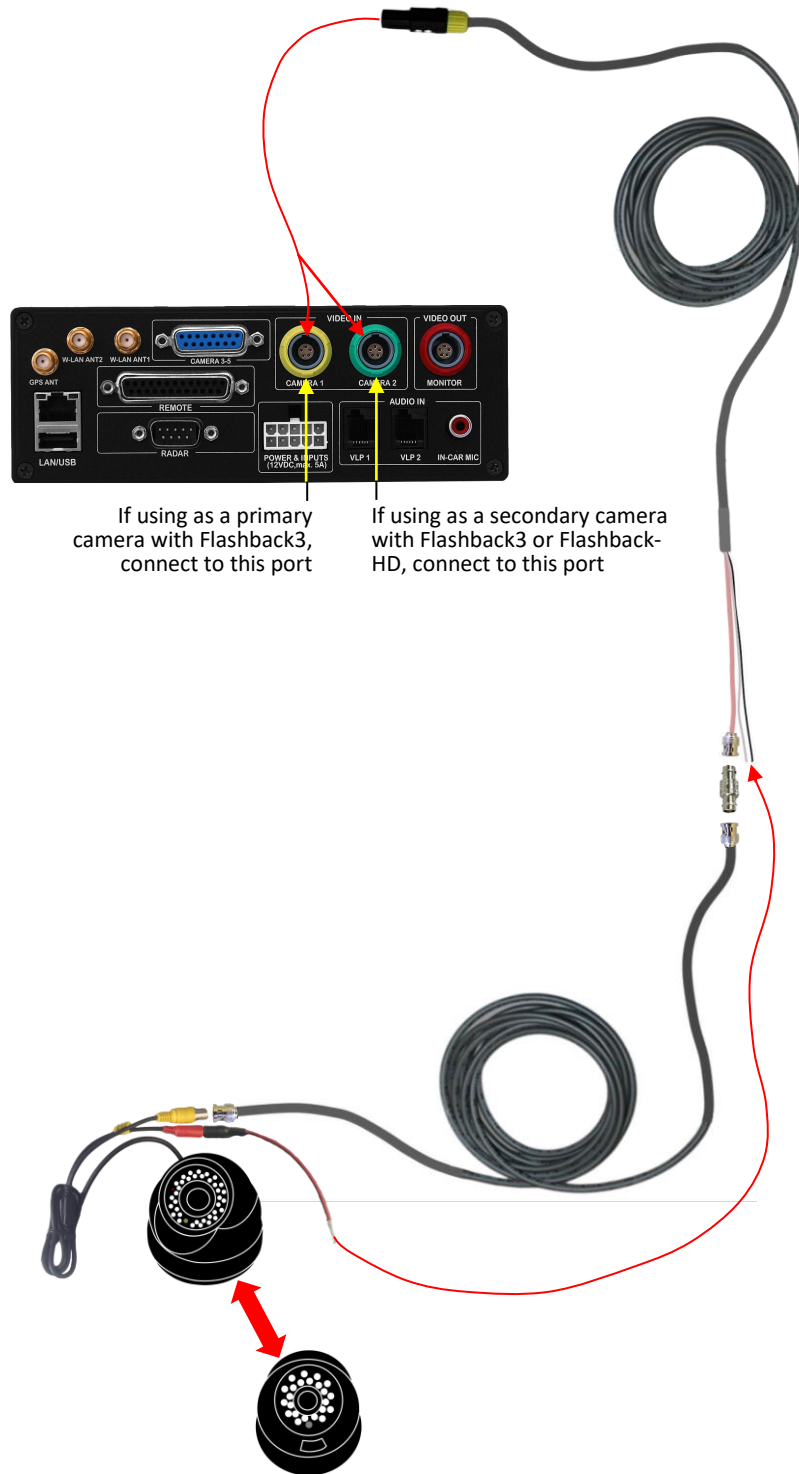
Option 4: PIRC1 Camera with Motion Detector

If using as a primary camera with Flashback3, connect to this port

If using as a secondary camera with Flashback3 or FlashbackHD, connect to this port



Option 5: SD Dome Camera with BNC Connector (Plenum installation)

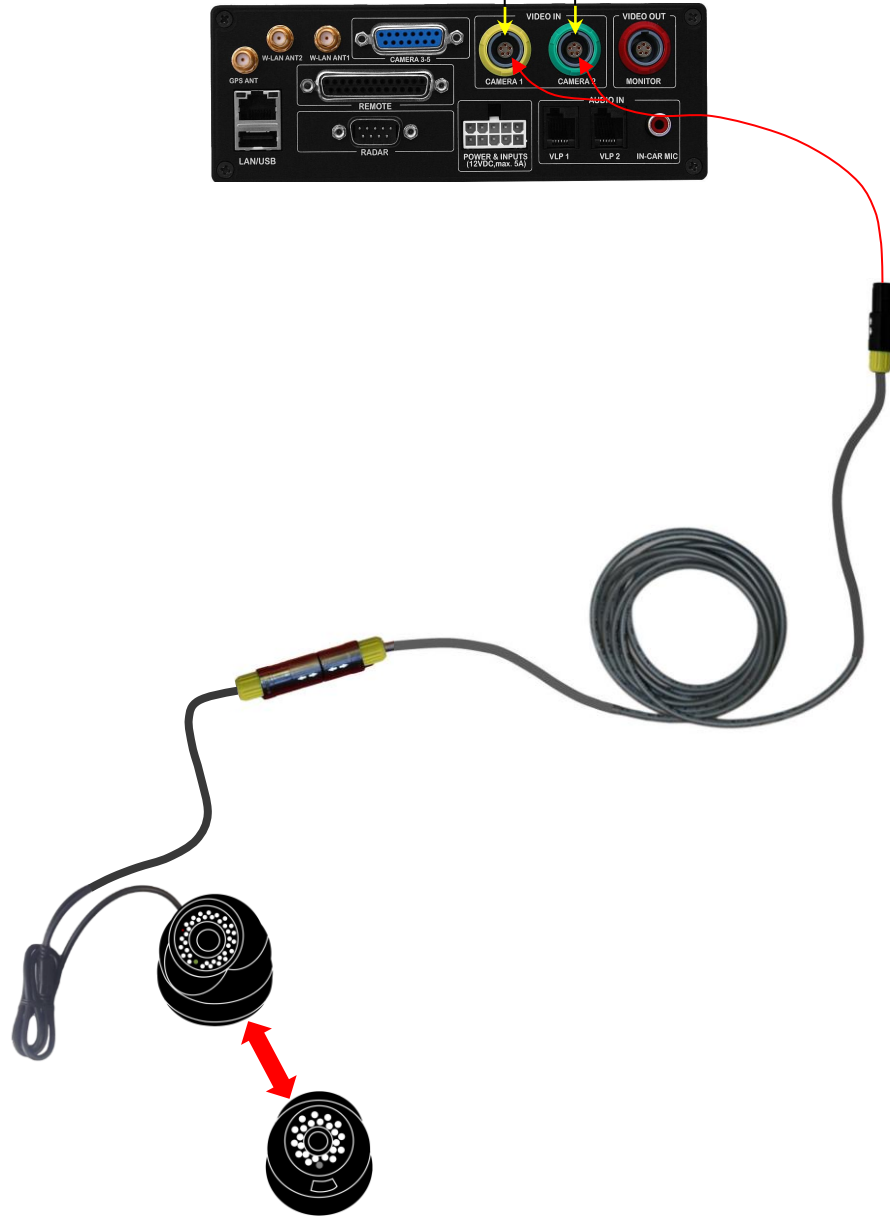


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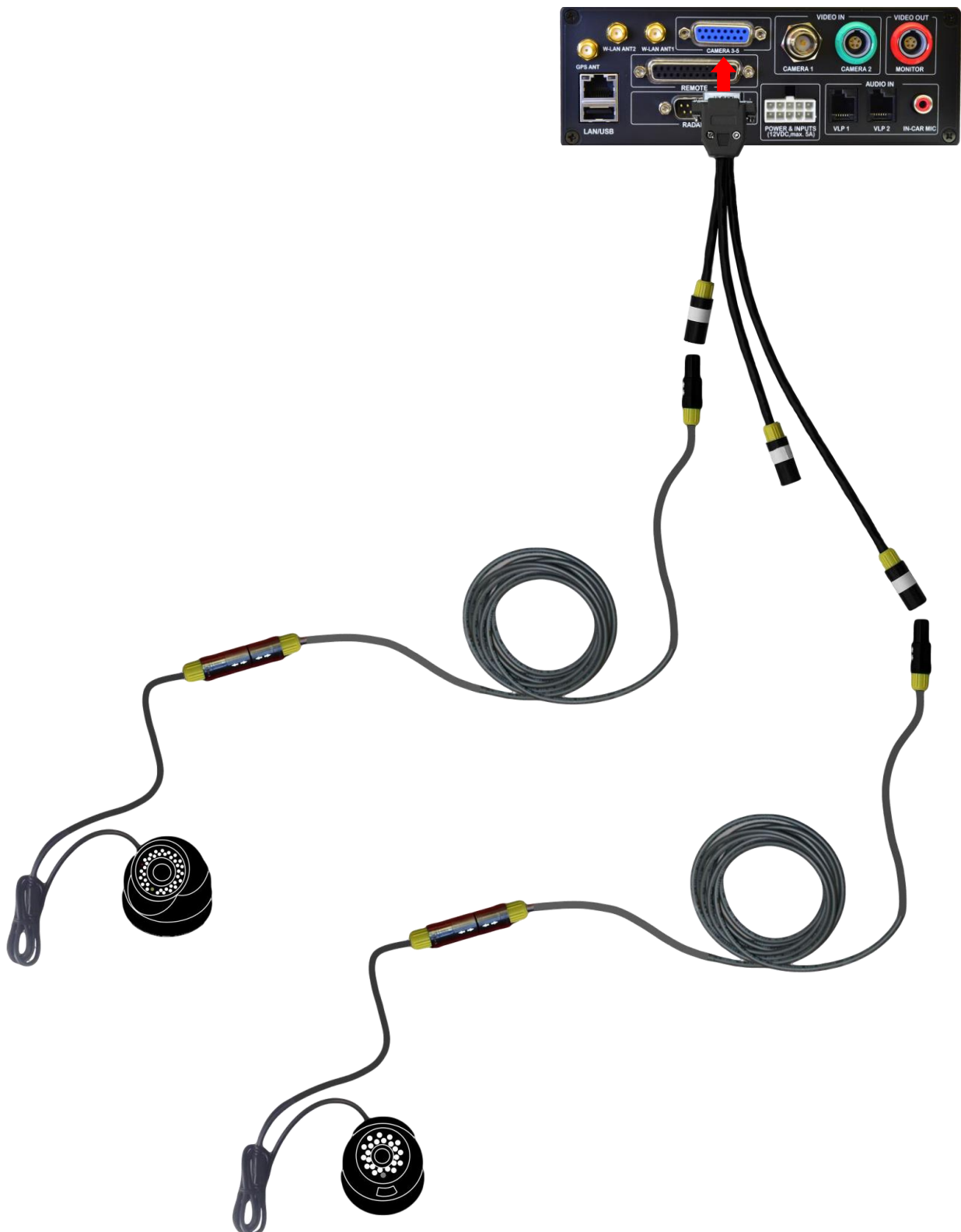
Option 6: SD Dome Camera with Lemo Connector

If using as a primary camera with Flashback3, connect to this port

If using as a secondary camera with Flashback3 or FlashbackHD, connect to this port



Option 7: Multiple SD Dome Cameras with 3-part Breakout Cable

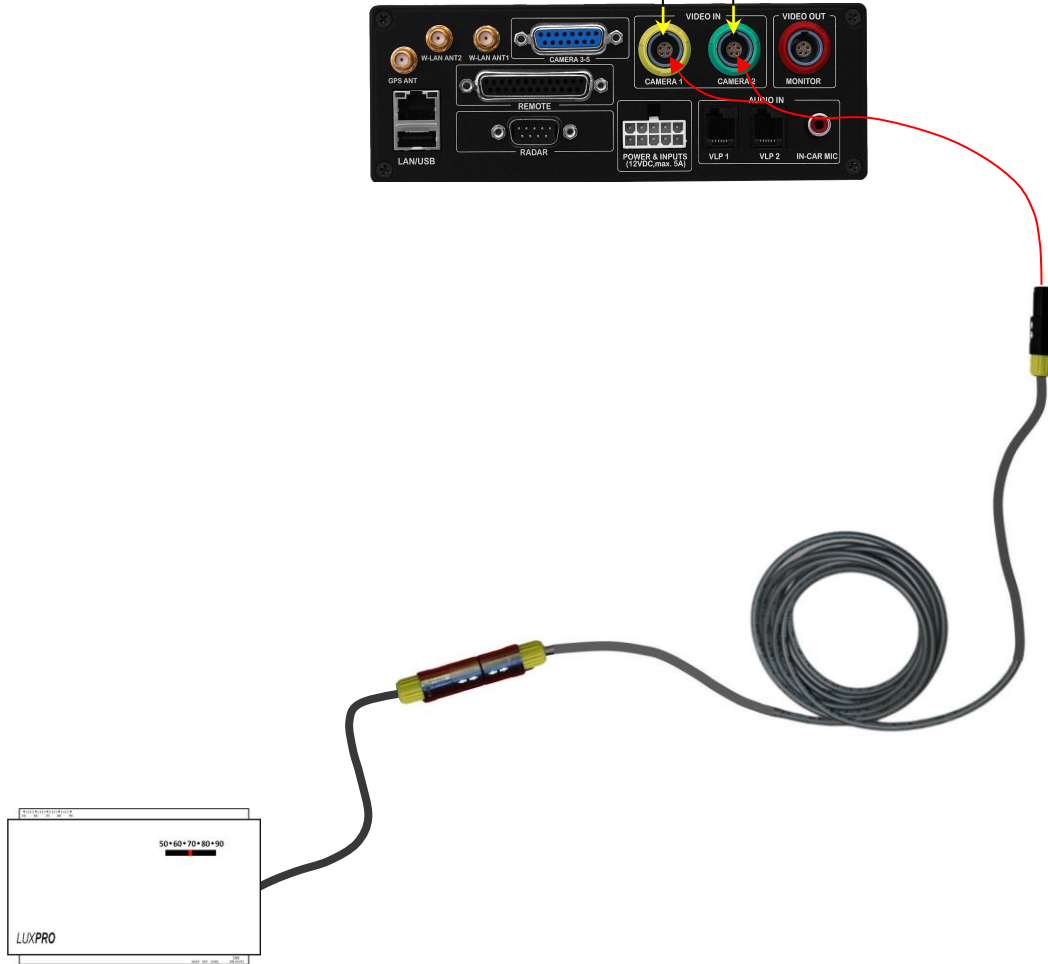


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Option 8: Thermostat Camera

If using as a primary camera with Flashback3, connect to this port

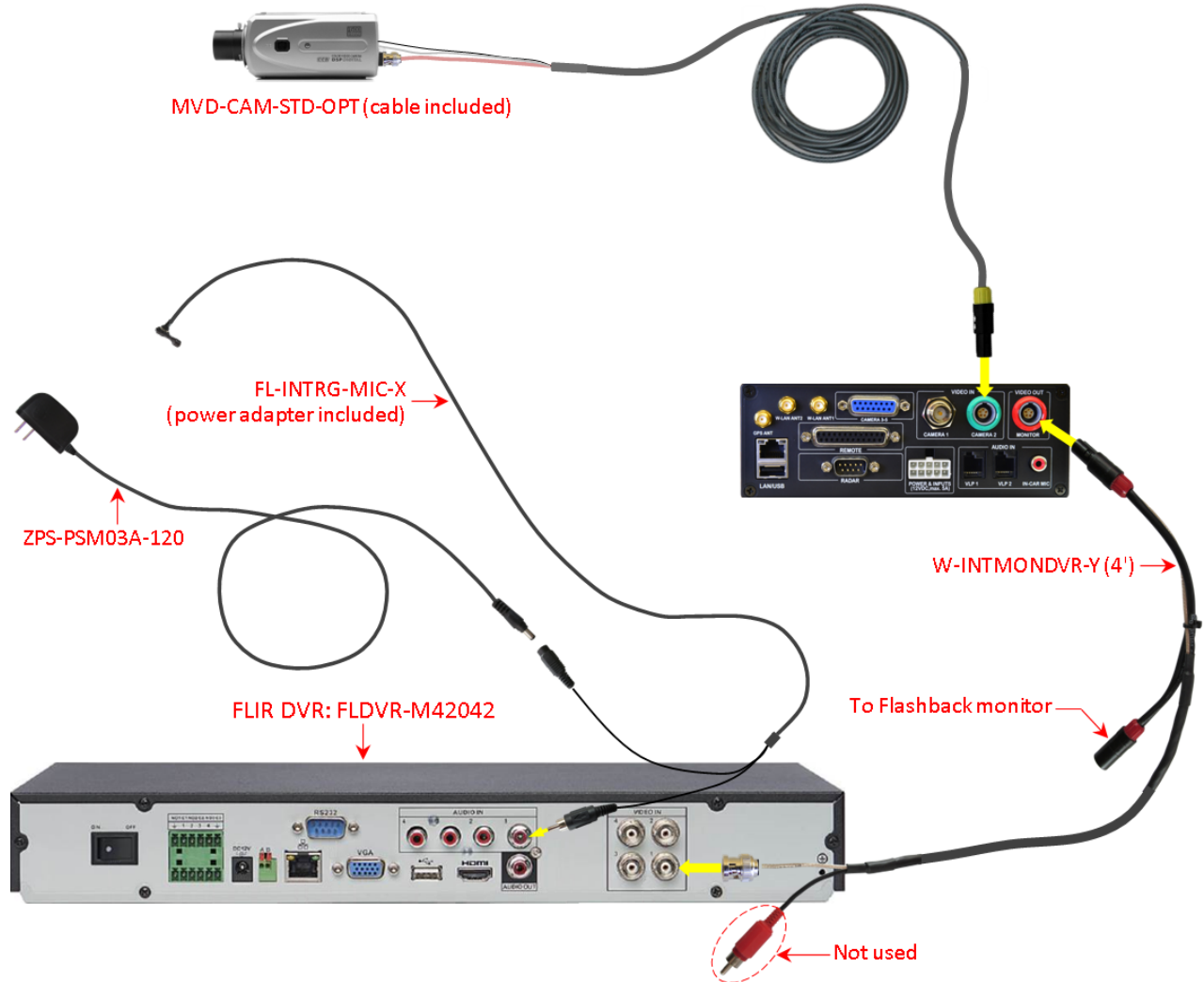
If using as a secondary camera with Flashback3 or FlashbackHD, connect to this port



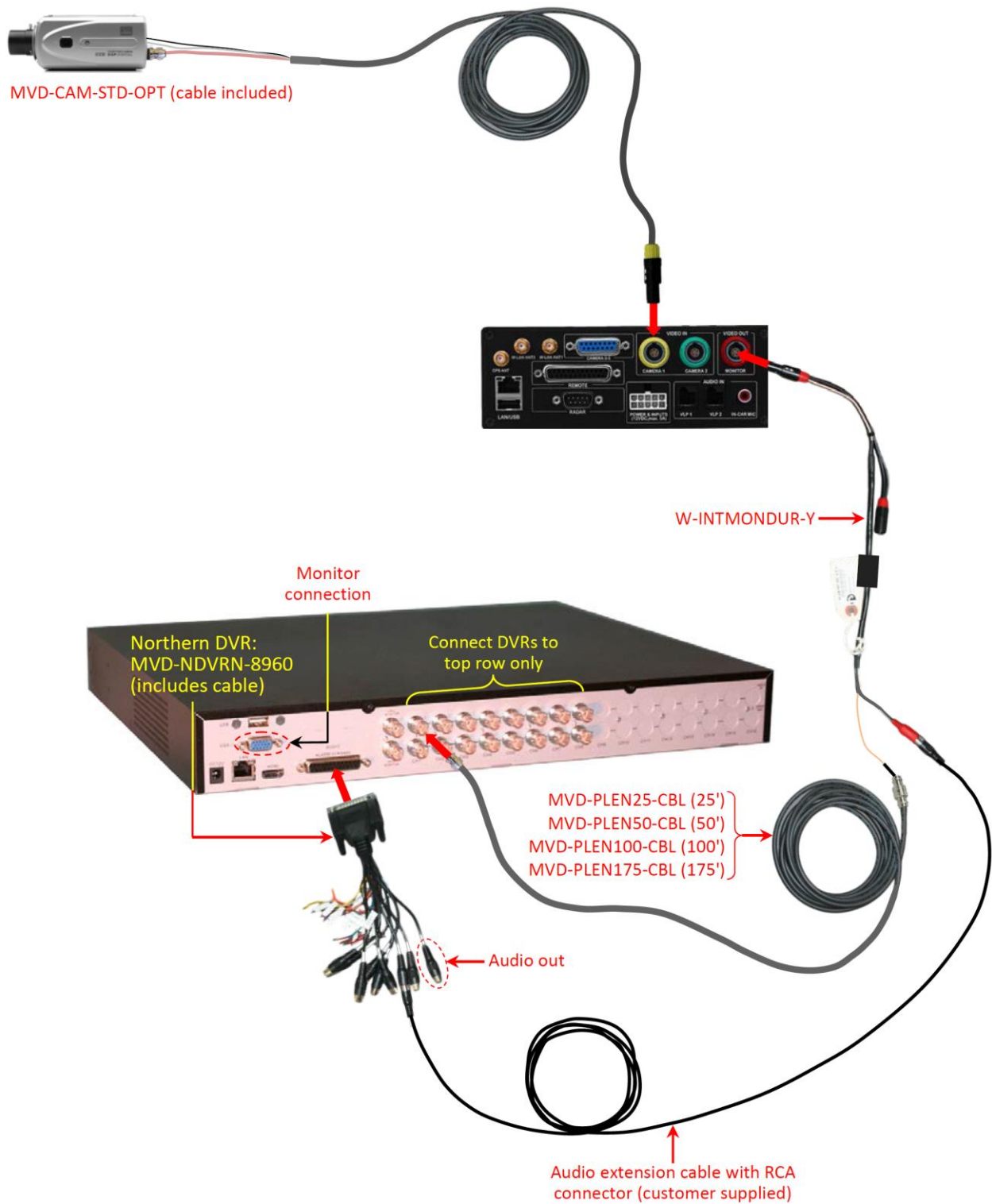
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Remote Multi-Room Viewing/Monitoring

FLIR DVR



Northern DVR (Legacy Product)



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