

# INSTALLATION INSTRUCTIONS

## PT-A-601, 602, 603, 604, 607 and 608

### PRISONER TRANSPORT VIDEO SYSTEM EQUIPMENT

**\*\* Camera systems must be used with rear compartment dome lights ON. \*\***

**TOOLS REQUIRED:**

Powered Drills (3/8" & 1/2")	Wire Crimping Tool	4 1/2" Hole Saw or Jig Saw Standard
Socket Set	Drill bit Set	Ratcheting Wrench
Wire Stripping Tool		

**HARDWARE and parts for PT-A-601/602/603/604**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART #</u>
2/4/6/6	#10 x 1/2" Flat head machine screw	GSM33380
4/8/12/12	#10 Keps nut	GSM30028
3/6/9/9	#10 x 3/4" Flat head sheet metal screw	GSM33151
2/4/6/6	10-32 x 1/2" Machine screw	GSM34447

**Only on PT-A-604 (for exterior camera bracket mounting)**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART #</u>
2	#10 X 3/4" Pan Head Sheet metal screw SS	GSM34170

**MAIN VIDEO SYSTEM COMPONENTS**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	Panavise Monitor mount bracket	GSM70040
1	Voyager 7" LCD Monitor with two (2) harnesses	GSM70003
1/2/3/3	6" Round 1/4" Lexan cover	PRM97353
1/2/3/3	Camera mounting bracket	KKM007933
2/2/3/4	Voyager 25 ft. Camera cable	GSM70021
1/2/3/4	Interior/ Exterior Color Camera	GSM70033

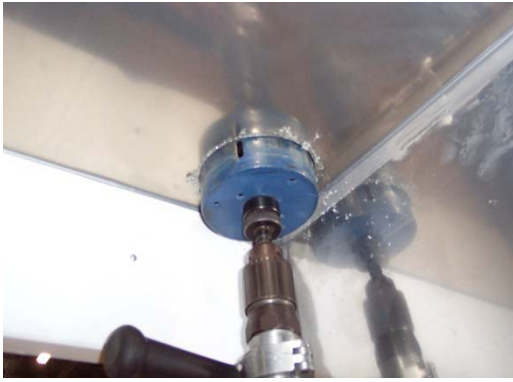
**PT-A-607 Clear Polycarbonate guard/Camera mount kit (Option only used for Customer Supplied Camera System)**

**Not needed for PT-A-601, 602, 603 and 604 kits because parts are already included.**

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
3	Camera mounting bracket	KKM007933
3	Clear Polycarbonate dome covers	PRM97353
12	10-32 Keps nut	GSM30028
9	#10 x 3/4" Flat head sheet metal screw	GSM33151
6	10-32 x 1/2" Flat head sheet metal screw	GSM33380
2	#10 x 3/4" Sheet metal screw	GSM34170
6	10-32 x 3/8" Machine screw	GSM34447

**PT-A-608 Digital Video Recorder kit (Optional)**

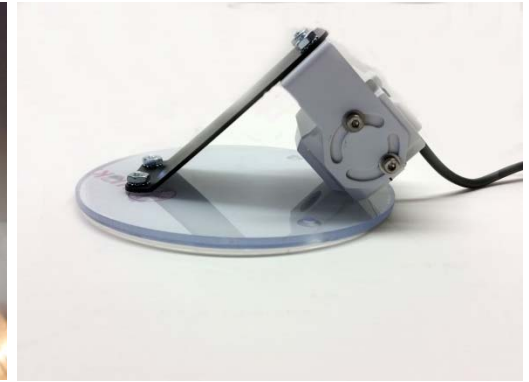
<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	Diesel Boss DVR with standard parts and cables	GSM70004
1	Samsung 860 EVO 2.5 Inch SATA III Internal SSD 1 TB	GSM70005 (installed in DVR)
4	4-PIN Female to RCA Female adaptor cable	GSM70025
1	Voyager Male to RCA Female adaptor cable	GSM70026
1	4-PIN Male to RCA Male adaptor cable	GSM70029
4	Voyager Female to RCA Male adaptor cable	GSM70034
4	Voyager "Y" Dual Male to Single Female Splitter cable	GSM70035
1	Equipment bracket for Havis Console	C-EB30-DB4-1P



Determine mounting location for camera and mark hole. Be sure to make sure the polycarbonate dome cover fits properly before drilling 4 1/2" hole. Take caution not to drill into any wires.



Once hole is drilled, deburr the metal. Reach through the opening and pull the camera cable through the opening.



Attach camera to the Camera mounting bracket using two (2) 10-32 x 1/2" bolts and 10-32 keps nuts. Attach the bracket to the cover with two (2) 10-32 flat head screws and keps nuts.



Wire system according to manufacture recommendations included within video system component boxes and the wire diagram supplied in this instruction



Plug camera cable into one of the camera assemblies. Turn on system. Position the camera to obtain optimal visibility within the compartment. *You will need two people for this step.*



Mark holes on the ceiling and pre-drill with 1/8" drill bit. Reposition camera assembly and mount using #10 x 3/4" Flat head sheet metal screws.



Repeat steps for remaining cameras.



View of third compartment setup.

**Note:** Cameras come standard with night vision LED lighting. However the night vision LED does not work correctly because of reflection off of the ceiling mounted vandal proof guard. **Using rear dome lights when cameras are in use is always recommended to solve this issue.**



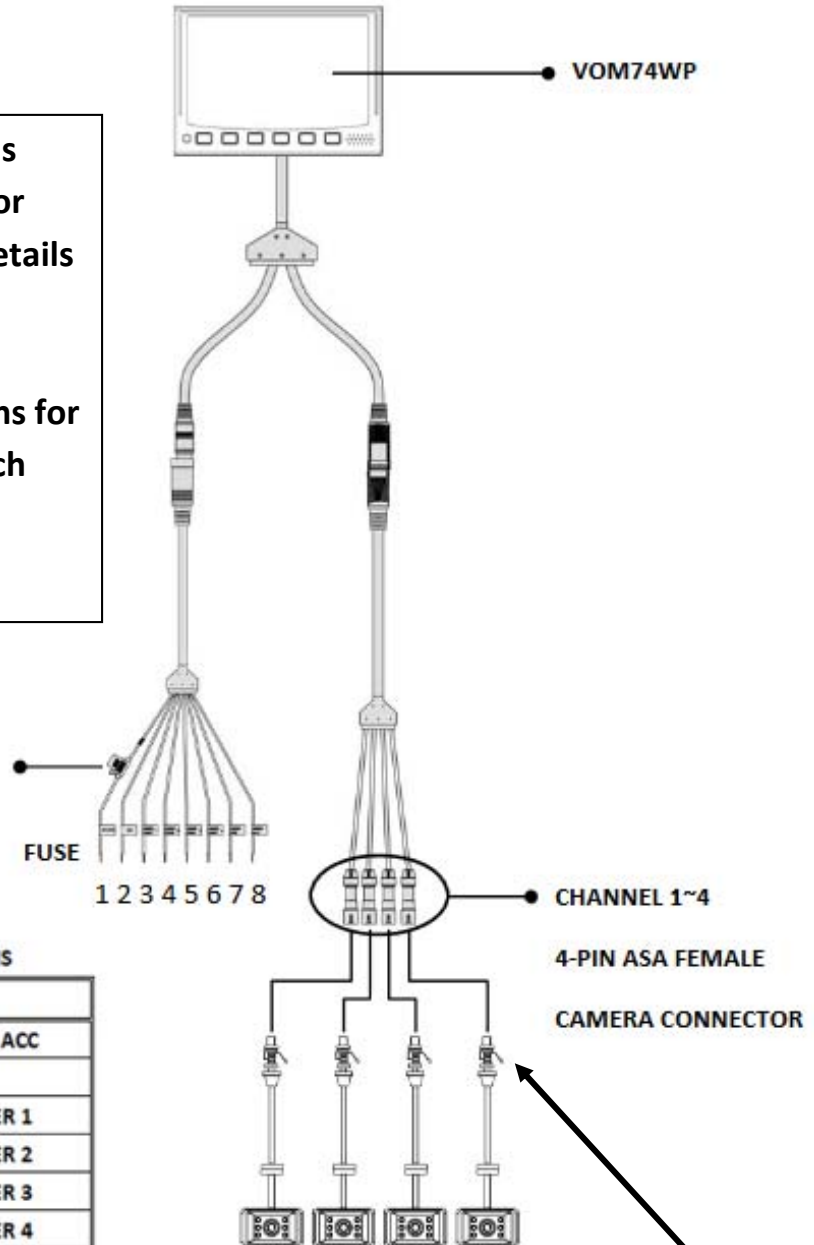
Mount external camera in desired location. If being used for viewing when backing up install camera on backside of roof as close to center as possible. The "U" shape bracket included with camera should work in most applications.

# VOM74WP

## Typical System Connection

See Voyager instructions included with monitor for operation and additional details

Also see Voyager instructions for warranty details and Tech Support information.



POWER/TRIGGER WIRE FUNCTIONS		
REF #	WIRE COLOR	DESCRIPTION
1	RED	POWER 12V. (+) ACC
2	BLACK	GND
3	BLUE	CAMERA TRIGGER 1
4	BROWN	CAMERA TRIGGER 2
5	GREEN	CAMERA TRIGGER 3
6	ORANGE	CAMERA TRIGGER 4
7	WHITE	AUDIO TRIGGER
8	YELLOW	SPLIT TRIGGER

25 ft. Camera extension cables are installed here.  
One (1) per camera

## **PT-A-608 Digital Video Recorder - Helpful Notes and Details**

- 1. Download MDVR player software onto Windows computer. (included on thumb drive)**
- 2. User and Hardware manuals included on thumb drive. Printed copies also supplied.**
- 3. Use the remote and mouse to enter menu mode and change settings if desired.**
- 4. Remote and mouse are temporarily used for programming only.**
- 5. Remote requires two (2) AAA batteries. (not included)**
- 6. Record up to 600 hours for three cameras / 400 hours for four cameras on 1TB hard drive. Video will record continuously before over writing from the beginning.**
- 7. Remove Hard Drive for downloading video files with supplied SATA-USB cable.**
- 8. Additional RCA video extension cable (not included) may be needed depending on desired monitor & DVR locations. (goes between GSM70026 and GSM70029 cables)**
- 9. Connecting DVR trigger wires are optional connections. It is up to end user to determine if they require these for automatic record features.**
- 10. PT-A-608 kit includes parts for connecting up to four (4) Voyager cameras.**
- 11. DVR wiring includes cable adaptor for 5 thru 8 cameras. This cable is not used.**
- 12. It is necessary to access DVR menu to change from eight (8) to four (4) camera views. With DVR menu showing on monitor, right click mouse to open Multiview choices and select four camera (quad) view. See DVR User's manual for more details. (Only needed when viewing on monitor for programming or live playback)**
- 13. Refer to page (7) & (8) on these instructions for details on how to view DVR menu and change programming if desired.**
- 14. Voyager Camera system has a separate settings menu. See Voyager instruction manual included in kit for details.**
- 15. For additional support from Havis, Inc. call 1-800-524-9900**

**PT-A-608 Digital Video Recorder kit**  
**Wire schematic for Voyager monitor and camera interface**



**See more cable connection details on pages (7) and (8) for programing DVR settings**

**Connect "Y" cables to RCA adaptor as shown and to Voyager Monitor camera input plugs**



**GSM70004** DVR

Shown with **C-EB30-DB4-1P** equipment bracket  
for mounting in Havis console.



**GSM70025**

4-PIN Female to RCA Female adaptor  
*Four (4) Included with DVR kit*



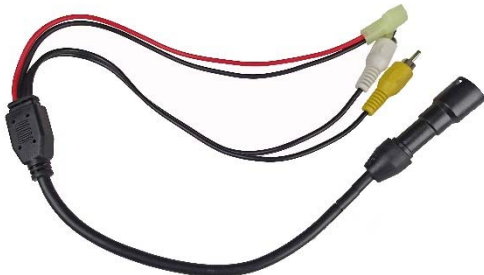
**GSM70026**

Voyager Male to RCA Female adaptor  
*For DVR (AV out) to Monitor*



**GSM70029**

4-PIN Male to RCA Male adaptor  
*For DVR (AV out) to Monitor*



**GSM70034**

Voyager Female to RCA Male adaptor  
**NOTE:** *Red and Black power wires and White  
RCA cable not used with this video system.*



**GSM70035**

Voyager "Y" Dual Male to Single Female  
Splitter adaptor

## DVR Menu viewing Method 1

Without optional GSM70006 monitor

### Note 1:

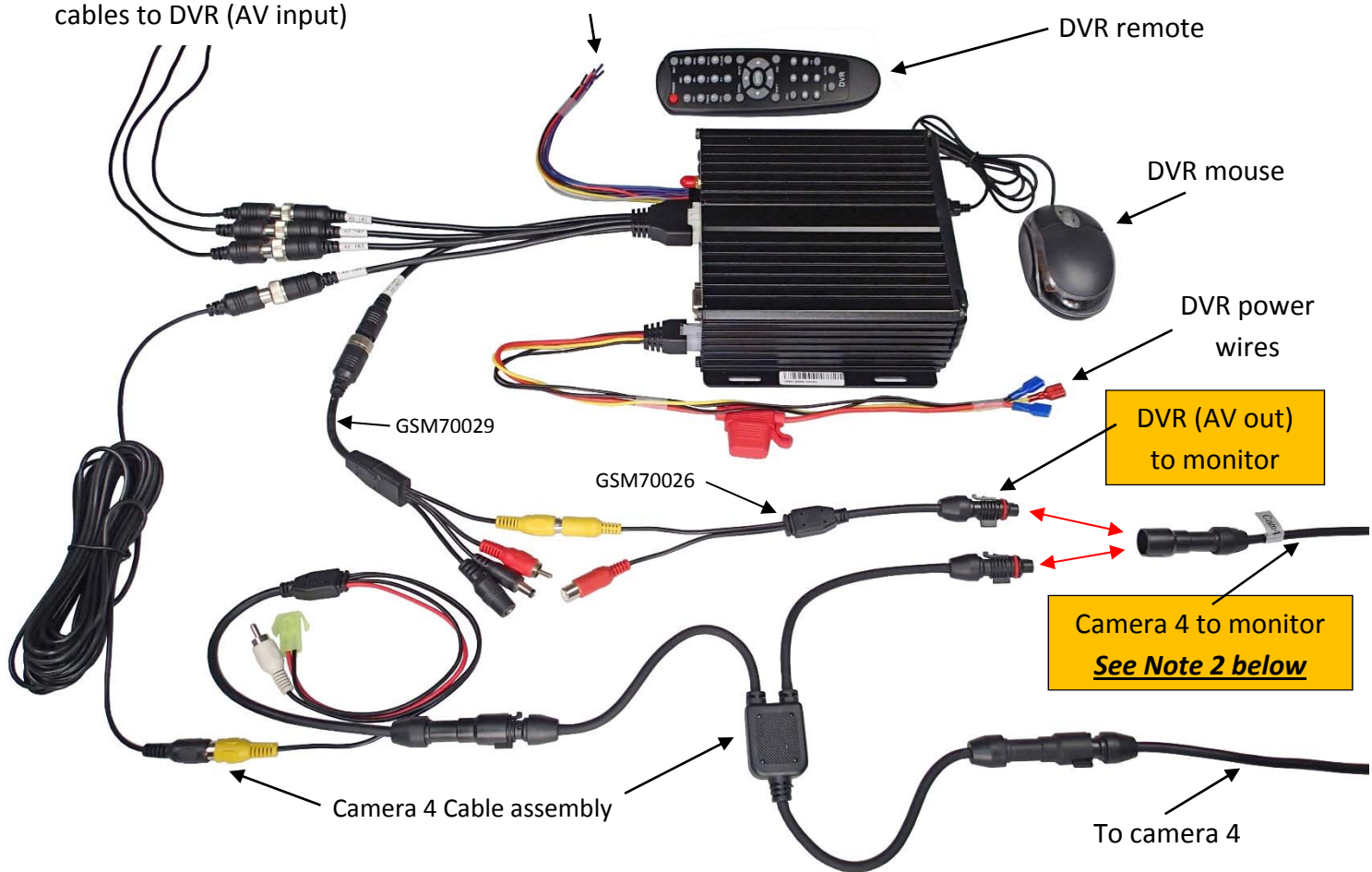
*If you are using a 1, 2, or 3 camera system. The AV out of the DVR will stay connected to the monitor. This will allow the menu to be accessed and programmed without changing plug connections. Remote and mouse will still be needed for programming*



View of Voyager monitor with DVR menu. Use DVR instructions along with remote and mouse for changing DVR settings.

Cameras 1, 2 and 3 from monitor / camera "Y" cables to DVR (AV input)

Trigger wires



### Note 2:

*If you have a four (4) camera system (Without optional GSM70006 monitor) the DVR menu settings are only able to be viewed and programmed by following the above cable routing because the Voyager monitor only has four (4) video inputs. Using one of the camera inputs to the monitor, temporarily connect the AV out of the DVR to a monitor camera input. You will only be able to view DVR menu when AV out is temporarily connected to monitor camera input. Plug camera cable back into monitor when done programming. This method of changing settings has proved to be very successful in eliminating video tampering.*

## DVR Menu viewing Method 2

With optional GSM70006 monitor

Optional **GSM70006** 4.3" mini monitor

Used for viewing menu and reprogramming the DVR standard default settings instead of using Voyager monitor shown in method 1.

It is recommended to use this for programing only and to unplug / remove from vehicle when done.



Cameras 1, 2, 3 and 4 from monitor / camera "Y" cables to DVR (AV input)

