

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. ***

****This system does not support audio or audio recording****

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

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)

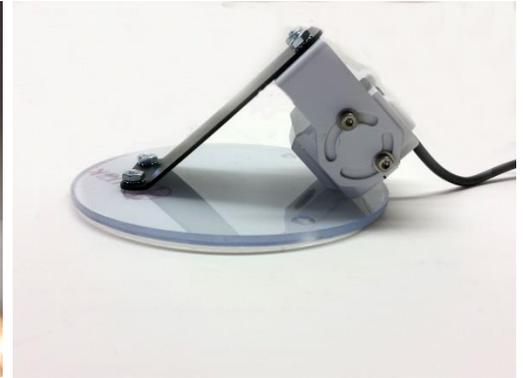
<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	Diesel Boss DVR with standard parts and cables	GSM70004
1	Samsung 860 EVO 2.5 Inch SATA III Internal SSD 1 TB	GSM70005 (installed in DVR)
4	4-PIN Female to RCA Female adaptor cable	GSM70025
1	Voyager Male to RCA Female adaptor cable	GSM70026
1	4-PIN Male to 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.**



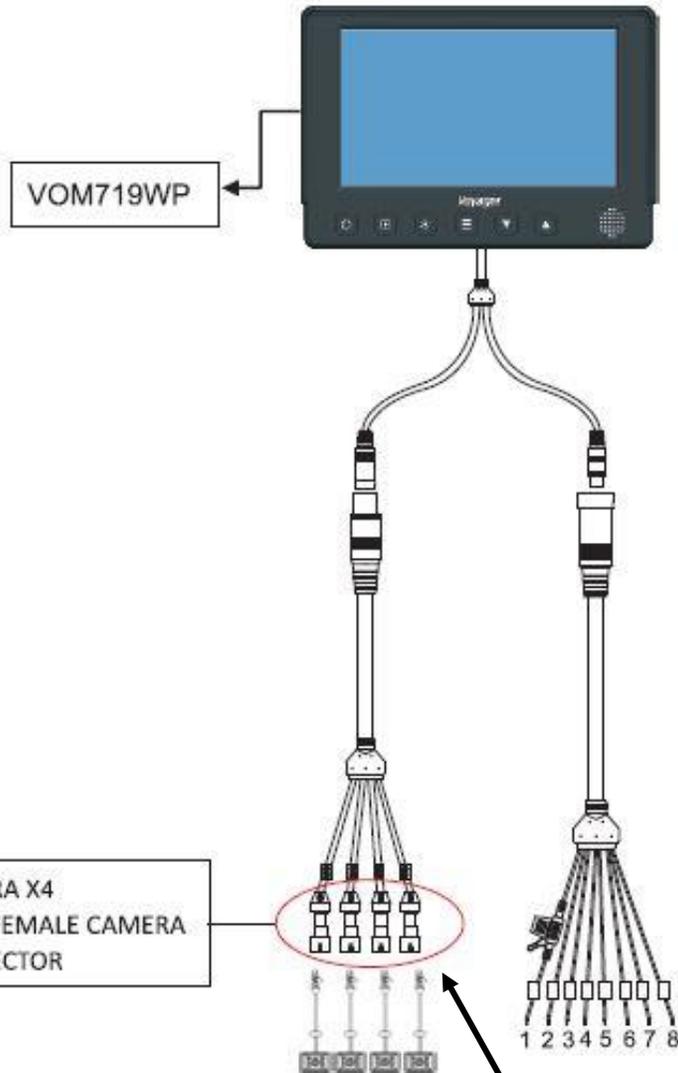
Mount external camera in desired location. If being used for viewing when backing up install camera on backside of roof as close to center as possible. The "U" shape bracket included with camera should work in most applications.

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.

Note: 10/2019 Monitor changed from model VOM74WP to VOM0719WP. Size, Cables and Functions did not change



POWER/TRIGGER WIRE FUNCTIONS

REF#	WIRE COLOR	DESCRIPTION
1	RED	POWER IN 12-24V DC
2	BLACK	GND
3	BLUE	TRIGGER1 (CAM1)
4	BROWN	TRIGGER2 (CAM2)
5	GREEN	TRIGGER3 (CAM3)
6	ORANGE	TRIGGER4 (CAM4)
7	WHITE	AUDIO TRIGGER
8	YELLOW	SPLIT TRIGGER

GSM70021
25 ft. Camera extension cables are installed here.
One (1) per camera.
Note: Camera plugs fit tight. Be sure to firmly push connectors together.

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 programing 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. Recommended wiring for turning on DVR for recording. Connect black wire to vehicle ground. Attach red power and yellow ignition wires together and connect to vehicle positive ignition source. This will automatically turn on DVR and will record when camera system is turned on. Red and yellow wires can be connected to a manual on/off switch if the end user desires the driver to remember to turn DVR on and off.
10. Connecting DVR trigger wires are optional connections. It is up to end user to determine if they require these for different automatic record activation features.
11. PT-A-608 kit includes parts for connecting up to four (4) Voyager cameras.
12. DVR wiring includes cable adaptor for 5 thru 8 cameras. This cable is not used.
13. It might be 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)
14. Refer to page (7) on these instructions for details on how to view DVR menu and change programing if desired.
15. Do not connect AV out cable to the "Y" adaptor on the same camera input channel to the monitor.
*This will overlap both DVR and Camera images making the DVR menu very difficult to see.
16. Voyager Camera system has a separate settings menu. See Voyager instruction manual included in kit for details.
17. 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 page (7) for programming DVR settings

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

Note: Camera plugs fit tight. Be sure to firmly push connectors together.



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

Note 1:

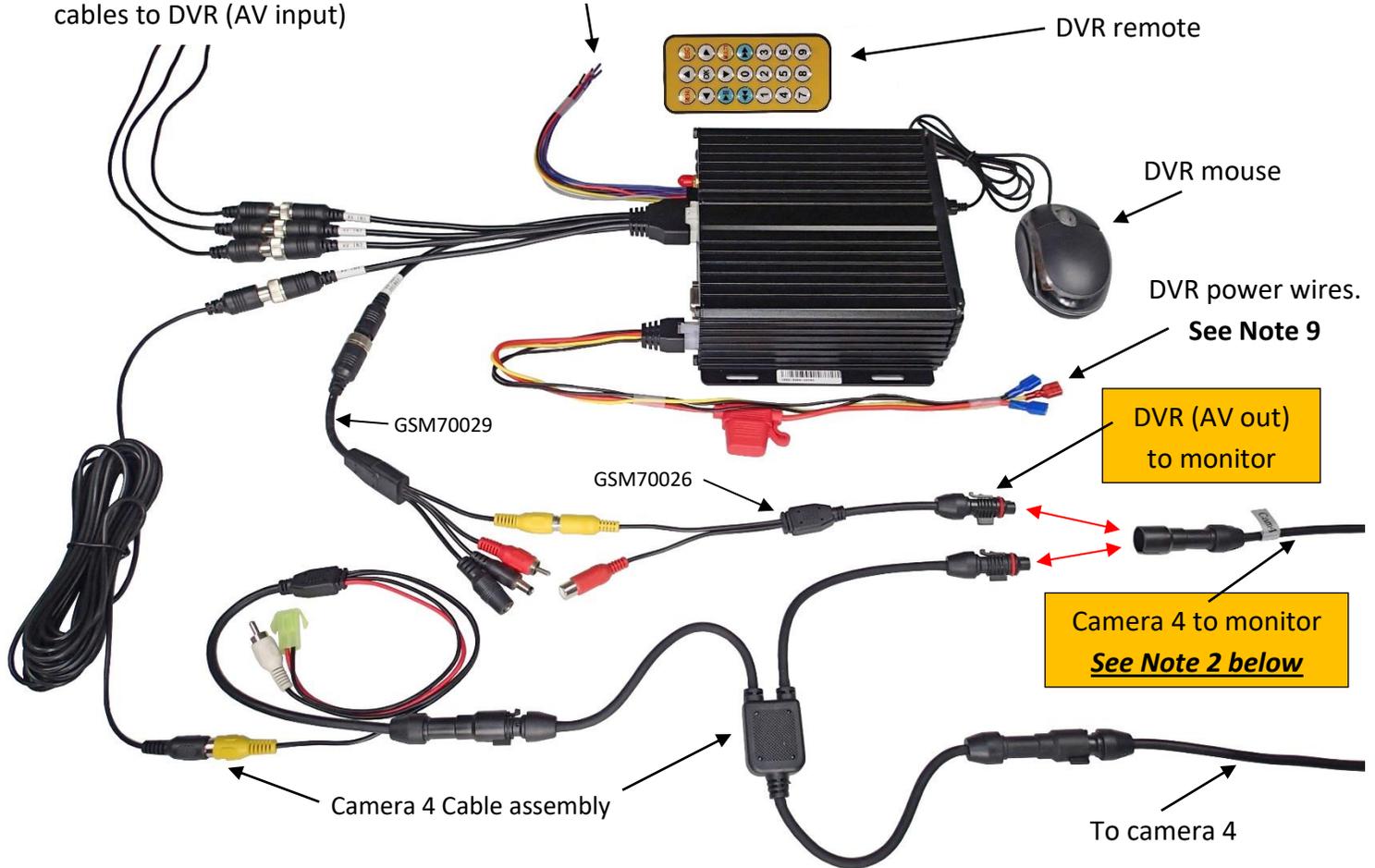
If you are using a 1, 2, or 3 camera system. The AV out of the DVR will stay connected to the monitor. This will allow the menu to be accessed and programmed without changing plug connections. Remote and mouse will still be needed for programming. See Note 2 below for a four (4) camera system.



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)

Optional trigger wires. See Note 10



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.