

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	16487
4/8/12/12	#10 Keps nut	16017
3/6/9/9	#10 x 3/4" Flat head sheet metal screw	16414
2/4/6/6	10-32 x 1/2" Machine screw	16721

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	16656

MAIN VIDEO SYSTEM COMPONENTS

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	Panavise Monitor mount bracket	16891
1	Voyager 7" LCD Monitor with two (2) harnesses	16877
1/2/3/3	6" Round 1/4" Lexan cover	20013
1/2/3/3	Camera mounting bracket	18287
2/2/3/4	Voyager 25 ft. Camera cable	16882
1/2/3/4	Interior/ Exterior Color Camera	16888

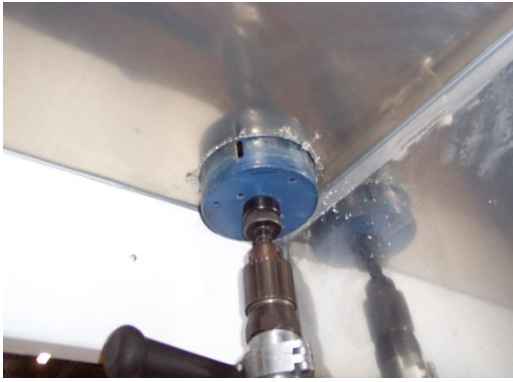
PT-A-607 Clear Polycarbonate guard/Camera mount kit (Option only used for Customer Supplied Camera System)

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	18287
3	Clear Polycarbonate dome covers	20013
12	10-32 Keps nut	16017
9	#10 x 3/4" Flat head sheet metal screw	16414
6	10-32 x 1/2" Flat head sheet metal screw	16487
2	#10 x 3/4" Sheet metal screw	16656
6	10-32 x 3/8" Machine screw	16721

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

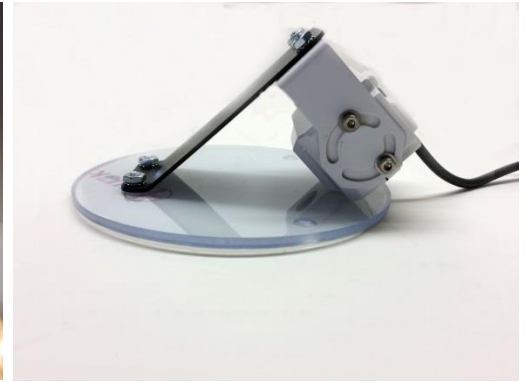
<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	RCA Male RCA to RCA Adaptor	40428
1	Voyager DVR 4100 with standard parts and cables	40429
1	Wireless Mouse	40430
1	Voyager 25 ft. Camera cable	16882
1	Voyager Male to RCA Female adaptor cable	16884



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.



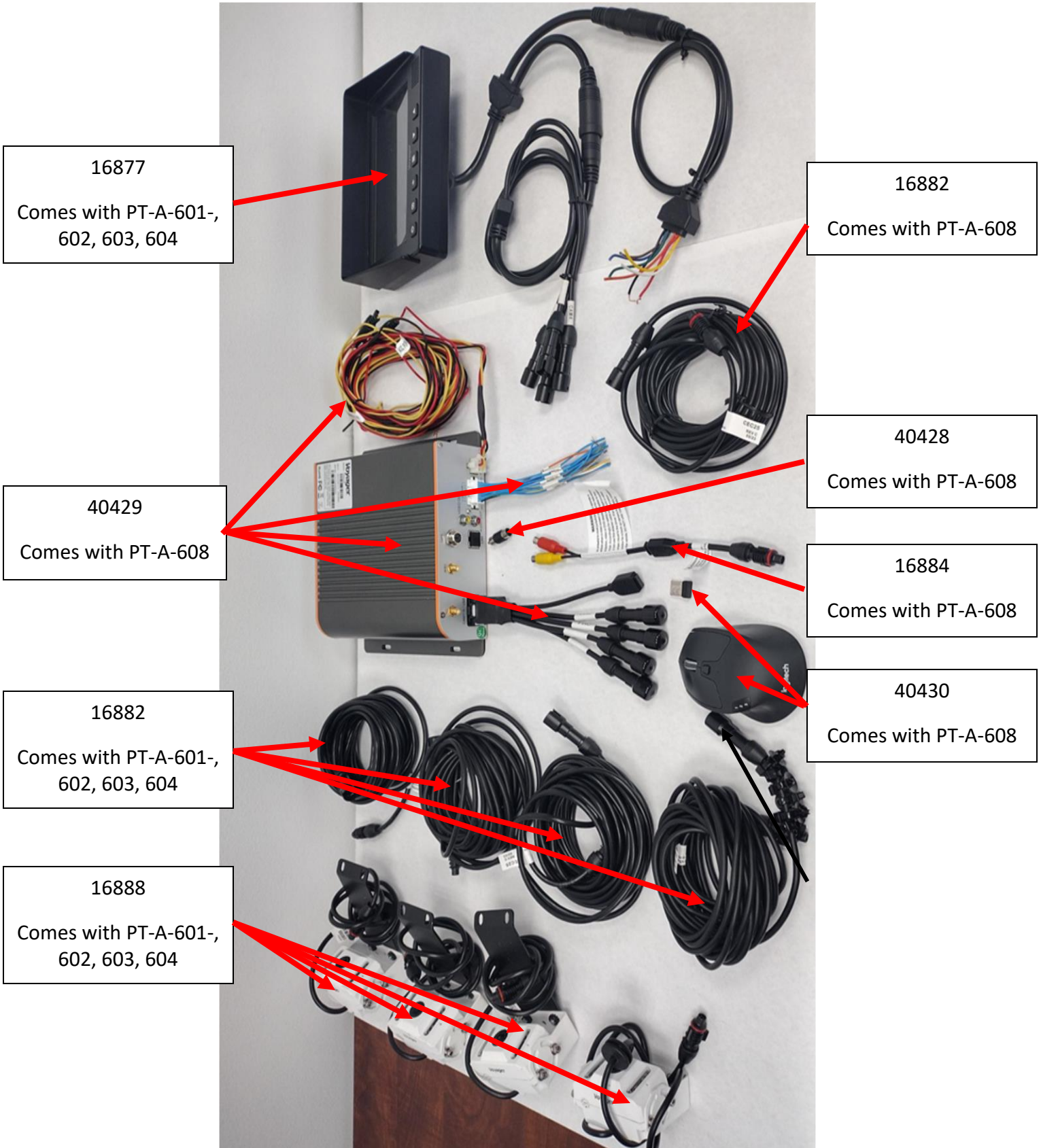
View of third compartment setup.

Repeat steps for remaining cameras.

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.



16877
Comes with PT-A-601-,
602, 603, 604

16882
Comes with PT-A-608

40429
Comes with PT-A-608

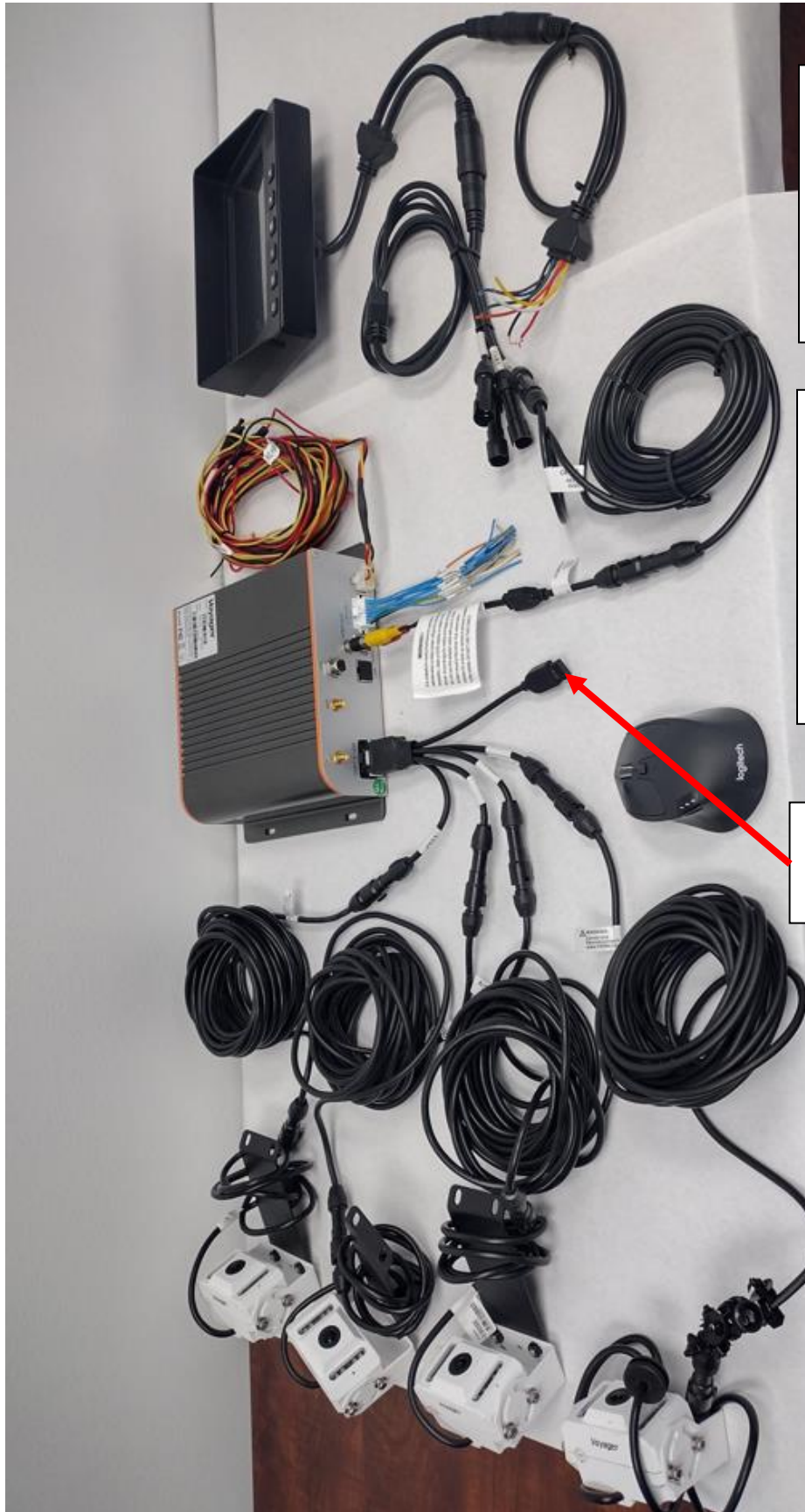
40428
Comes with PT-A-608

16884
Comes with PT-A-608

16882
Comes with PT-A-601-,
602, 603, 604

40430
Comes with PT-A-608

16888
Comes with PT-A-601-,
602, 603, 604



See Voyager instructions included with monitor for operation, warranty details and additional details Also see Voyager instructions for warranty details and Tech Support information.

From the monitor 16877 only Cam 1 cable is used. Attach Cam 1 cable to 16882. Attach 16882 to 16884, Attach 16884 to yellow 40428, Attach 40428 to Video Out on 40429

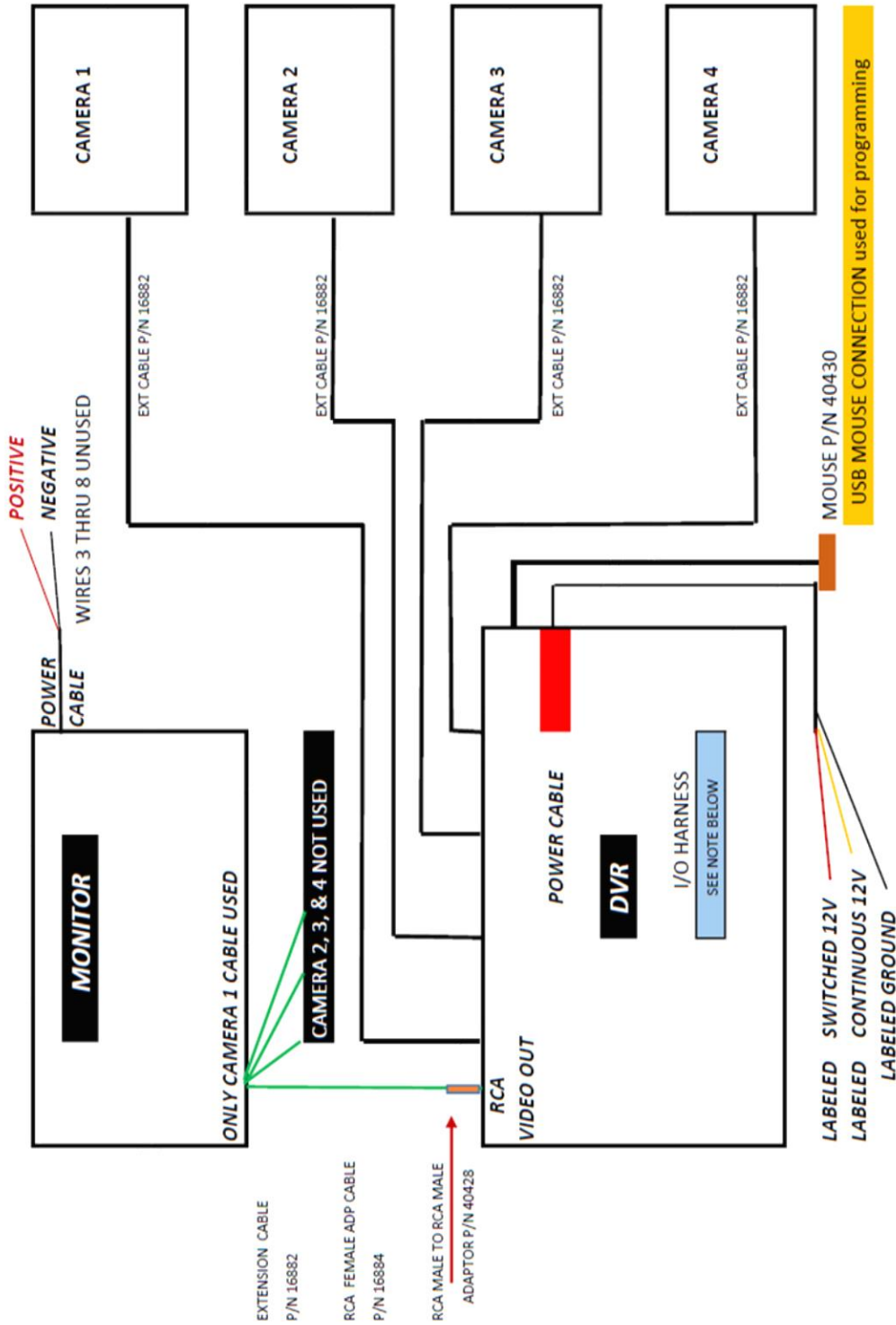
Trigger wires on the monitor are not used

Attach mouse fob to receptacle for programming

Attach cameras 16888 to 16882 as required. Connect 16882 to CH1-CH4 as required

16882
25 ft. Camera extension cables are installed here.
One (1) per camera.

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



I/O HARNESS: Triggered recording will occur when voltage is applied to one of the eight "Trigger" wires. Refer to instructions for configuring trigger wires.
*****Detailed programming instructions are provided on the included disc. *****

PT-A-608 WIRING DIAGRAM FOR DVR SYSTEM

PT-A-608 VOYAGER DVR4100

Supplemental (Simplified) Instructions

NOTE: Any system programming requires a mouse plugged into the USB PORT on the rear of the DVR in the camera cable bundle.

- 1) The ONLY wires that need to be connected are the three wires on the power harness:
 - a. Red – labeled ACC (switched 12 volts)
 - b. Yellow – labeled BATT (continuous 12 volts)
 - c. Black – ground
- 2) When voltage is removed from the red (ACC) wire, the system will continue to record for a preselected period of time. The default period is 60 minutes. That time period can be adjusted in the menus.
- 3) The “I/O Harness” can be used to activate triggered recording. Triggered recording will occur when voltage is applied to one of the eight “Trigger” wires. Configure Triggered Recording as follows:
 - a. Turn off the default Auto-Record setting..... by default, the system will automatically record all channels whenever the DVR powers on.
 - i. Go to “Settings” – “Record Setup” – “Start Record” (off) ---- “Apply All”
 - b. Go to “Event Setup” – “Sensor”
 - c. Select the desired trigger wire..... Labeled as “Sensor#” in the menus
 - d. Set “Delay Time” to “off”
 - e. Set “Priority” to “1”
 - f. Under “Event Record”, select channels to be recorded when triggered..... Click on the box for each channel to be recorded.
 - g. UNSELECT all channels under “Event Popup”. Any channel that is selected here will automatically be displayed full-screen whenever the trigger wire is energized.
- 4) If using less than four cameras, disable the unused channels as described below. If any port is empty (and NOT disabled), the Red (Record) LED will flash and the system will beep to indicate loss of signal:
 - a. Go into the menus
 - b. Select “Event Setup”
 - c. Select “Video Loss”
 - d. Individually select each unused input, and then set “Enable” to “Off” for each unused input.
- 5) If all four camera ports are in use, once the system powers on, the green light will flash and then eventually turn solid. Then the red light will do the same. If the red light fails to turn solid red (and four cameras are connected), reseat the hard drive. I actually had to do that with the DVR I was testing.
- 6) If four cameras are connected and if the hard drive is properly seated, you should NOT hear beeping when the system boots up. Beeping indicates either loss of a camera(s) or no hard drive detected
- 7) You should feel two distinct “snaps” while seating the drive. If you don’t feel the second snap, its probably not seated.
 - a. To confirm that hard drive is properly seated, go to the menus and navigate to “Storage”.
 - b. If no devices are present on the “Storage” page, reseat the drive.
- 8) To navigate and play back video or modify the menu settings, either use the included remote, or connect a USB mouse to the USB port on the CAMERA HARNESS. Don’t try to connect a mouse to the USB port on the front of the DVR. That port is for transferring video
- 9) This video demonstrates the various methods for retrieving and viewing data: <https://youtu.be/YBZ5eiDcCbo>
- 10) For technical support on video system components and operation please contact RVCams 225 261 9946



40429 DVR

This equipment is too large for a console and should be mounted elsewhere. We recommend a PT bulkhead



16877

Voyager monitor



16884

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



16882

25ft Extension cable



40428

RCA male to male adapter



Comes with 40429

DVR Remote
GPS Receiver