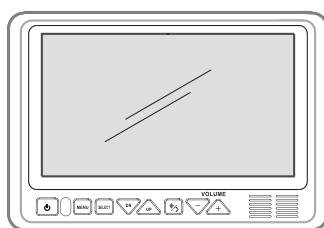


# ***Voyager®***

## **AOM-7694** **7" FLAT PANEL COLOR OBSERVATION** **MONITOR OWNER'S MANUAL**



### **AOM-7694 Features:**

- High-performance Automotive Grade 7" Color LCD Panel
- 4 Camera / A/V Inputs
- A/V Selectable Navigation (RGB) or Camera (Composite)
- Single / Split / Quad Display Modes
- PAL/NTSC Compatible
- 1 Video Output for Display on External Video Monitor
- DC Auto Source for Switching Triggers (Turn Signal Compatible)
- Backlit Control Buttons
- Built-in Audio Speaker
- Compatible with Voyager Standard or Motorized Tilt Cameras
- Manual/Auto Day/Night Display Brightness Modes
- Programmable Source Name OSD
- Flush-Mount Installation Kit Included

### **Camera-Monitor Warnings!**

1. Camera/monitor system aids in the use of, but does not replace vehicle side/rear-view mirrors.
2. Objects in camera/monitor view are closer than they appear.  
When backing up, proceed cautiously and be prepared to stop.

# AOM-7694

## **IMPORTANT! - Please Read This Manual Before Installing!**

Congratulations on your purchase of a Voyager AOM-7694 LCD Observation Monitor. With proper installation and use, your AOM-7694 LCD is designed to provide you with years of trouble-free operation. Please read this manual thoroughly prior to beginning.

All Voyager Observation products are strictly intended to be installed as a supplemental aid to standard rear-view mirror systems that may already exist in your vehicle. Voyager Observation products are not intended for use as substitutes for rear-view mirror devices or for any other standard motor vehicle equipment required by law.

While Voyager observation products contribute to improving the vehicle operator's field of view, these products are no substitute for proper defensive driving techniques and observance of traffic laws and motor vehicle safety regulations.

## **Warnings!**

**RED POWER WIRE MUST BE CONNECTED TO ACCESSORY TO AVOID CURRENT DRAW IN THE KEY OFF POSITION.**

## **Installation Location**

It is unlawful in most jurisdictions for a person to drive a motor vehicle equipped with a television viewer or screen located at any point forward of the back of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle. The AOM-7694 product is designed to be used primarily as a rear observation device in conjunction with a closed circuit camera. In any installation where the AOM-7694 is used to display television broadcasts or recorded video, the installation location must adhere to local laws and regulations.

## **Tampering**

To prevent electric shock, **DO NOT OPEN THE MONITOR CASE.** *There are potentially harmful voltages inside the monitor. There are no user serviceable parts inside.* If evidence of tampering is detected, the warranty will be considered void.

## **Moisture**

Your Voyager AOM-7694 was not designed to be water-resistant. While it will withstand short periods of exposure to moisture, this product does contain sensitive electronic components and exposure to moisture should be limited by the user/installer. This product is not designed for constant exposure to moisture or immersion.

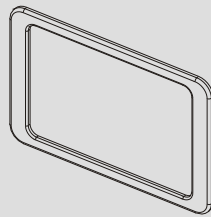
This unit should NEVER be cleaned with a power washer or used where direct power washer spray may be encountered.

## **Depth of view**

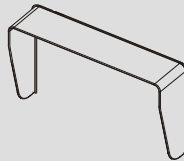
**OBJECTS VIEWED IN MONITOR ARE CLOSER THAN THEY APPEAR.**

# AOM-7694

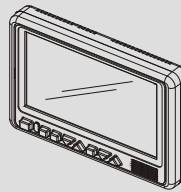
## PACKING CONTENTS



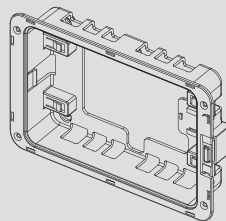
TRIM RING  
QTY. 1



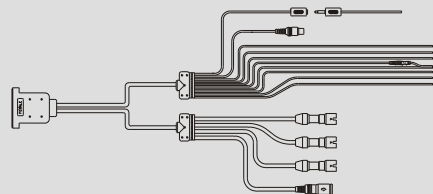
SUN SHIELD  
QTY. 1



LCD MONITOR  
QTY. 1



FLUSH MOUNT BRACKET  
QTY. 1



CABLE QTY. 1



P/H Machine Screw  
M4X10mm  
QTY. 4



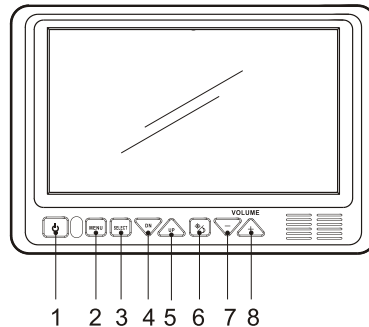
Flat Head Tapping Screw  
M4X12mm  
QTY. 4



4" BLACK WIRE TIE  
QTY. 1

# AOM-7694

## CONTROLS AND OPERATION



### 1. POWER ON/OFF



- Press once to turn the unit on.
- Press again to turn the unit off.
- With power applied and the unit turned off, only the red power button is backlit.
- When unit is turned on, all buttons are backlit.

### 2. MENU



- Press once to enter main menu mode (See Figure1).
- Press again before time out to exit the menu mode.
- Time out of OSD menu is approximately 8 seconds from when the last key was pressed.

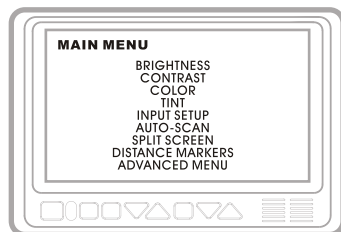
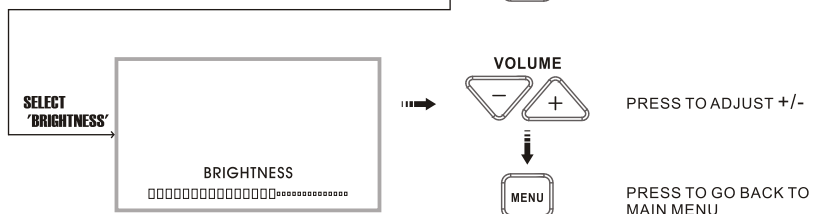
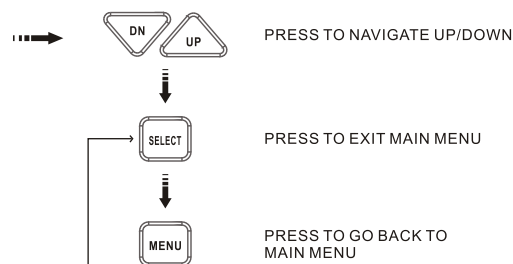
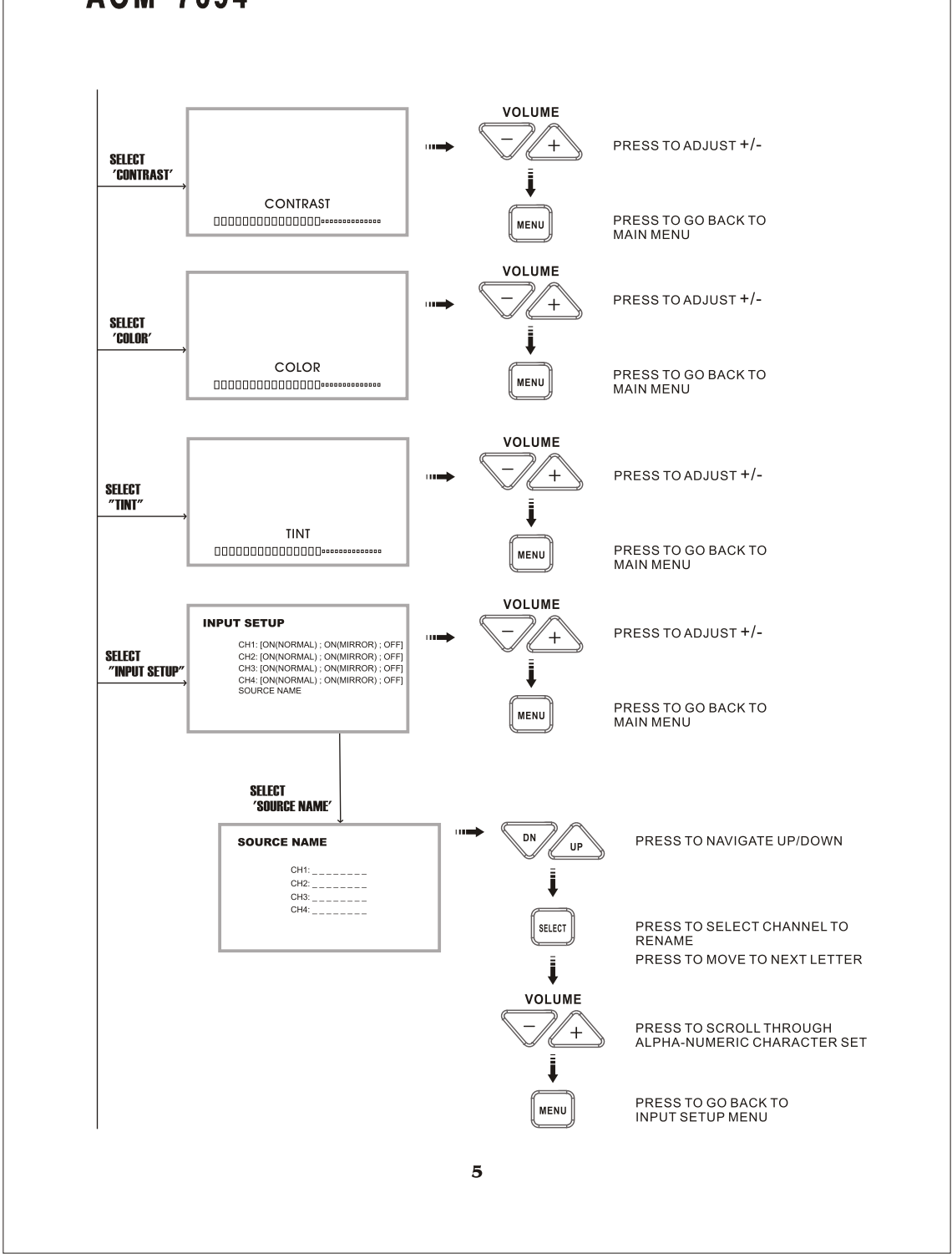


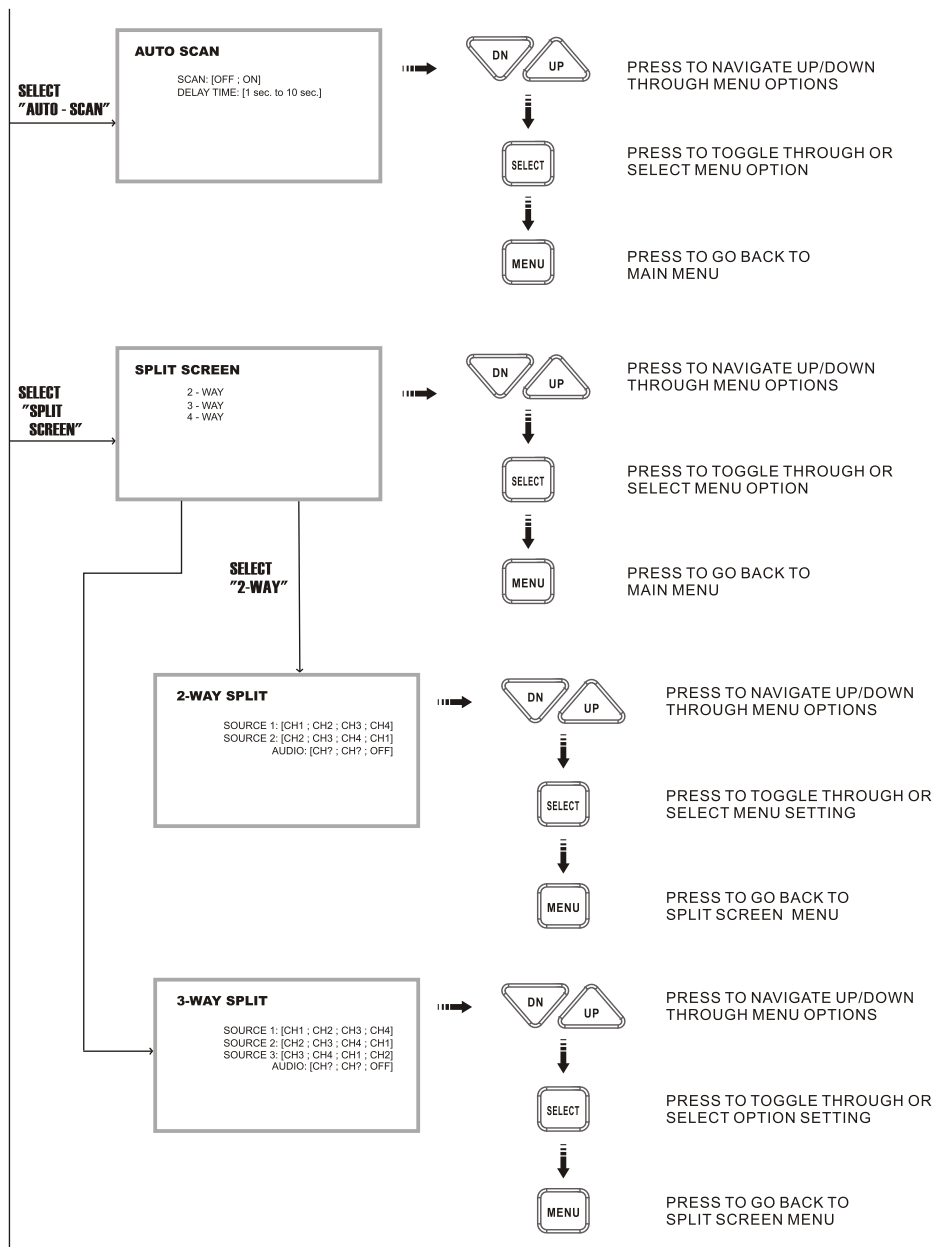
Figure. 1 Main menu



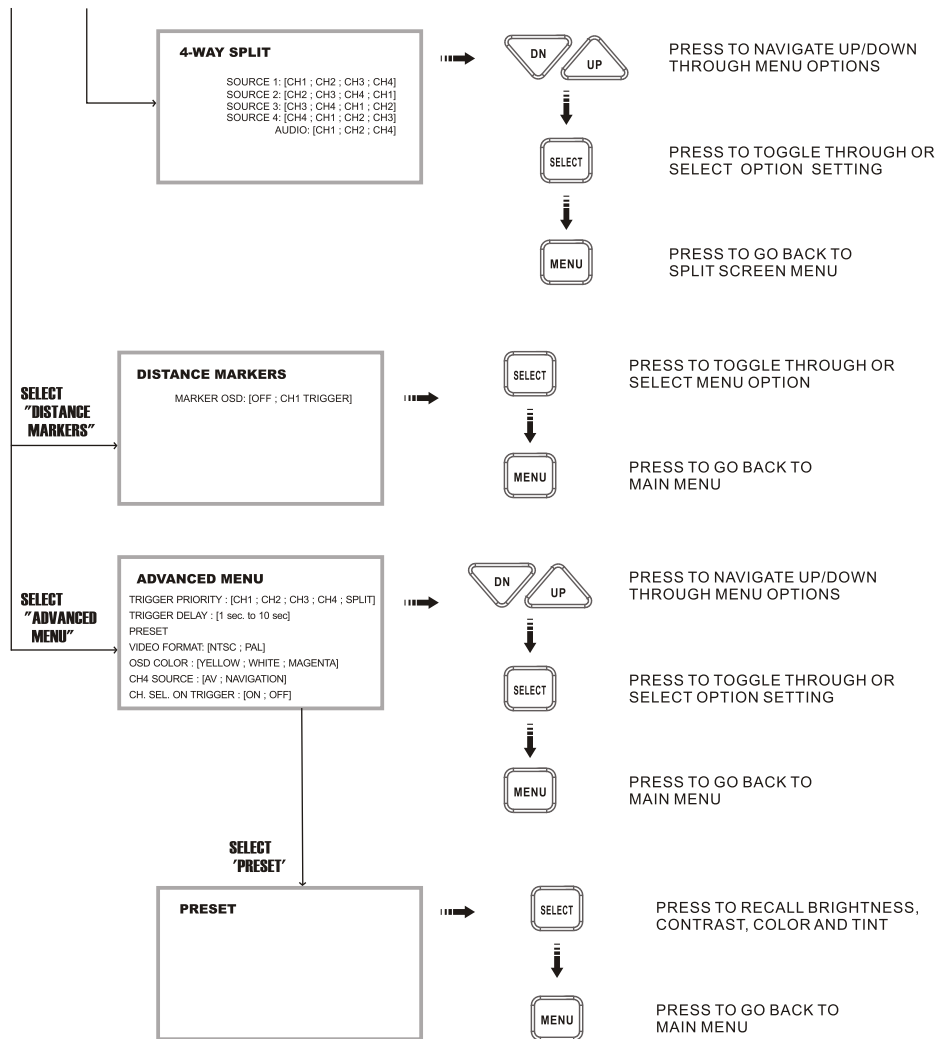
**AOM-7694**



# AOM-7694



# AOM-7694



# AOM-7694

## 3. SELECT



### Primary Function Input Source Select

- Pressing the **SELECT** button to sequence the source input modes as indicated in Figure 2.
- Source input modes that are skipped through the menu control function will be skipped. (Figure 3 shows sequence with CAM/INPUT 3 skipped.)
- Source ID is indicated by OSD in the top left corner of the screen.
- Source NAME is indicated by OSD in the bottom center of the screen.

### Secondary Function Menu Option Selection

- While in Menu mode, the **SELECT** button is used to select the highlighted function or option setting.

### Third Function Scan Pause / Start

- While in source "SCAN" mode, pressing the select button will stop the scan and display the current source. "Pause" will be displayed by OSD.  
Press **SELECT** again to resume source scan.

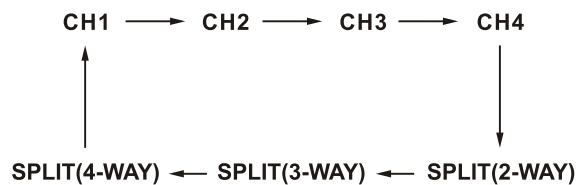


Figure 2: Source Select Sequence  
(All Source Options "On" )

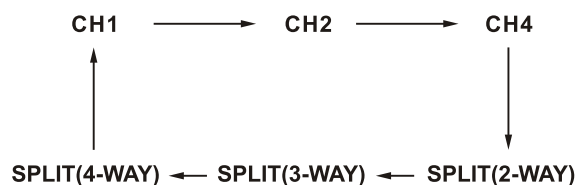


Figure 3: Source Select Sequence  
(CH3 "Skip" )



## AOM-7694

### 4. UP / DOWN



#### Primary Function Camera Control

- Press the **DN** button to adjust the camera position downward.
- Press the **UP** button to adjust the camera position upward.

#### Secondary Function Menu Navigation

- While in Menu modes, the **UP** and **DN** buttons are used to navigate through available menu options.

### 5. Day / Night



#### Primary Function DAY/NIGHT Mode Setting

- Press the **DAY/NIGHT** button to sequence day/night backlight compensation through "DAY", "NIGHT" and "AUTO" modes.
- Current mode setting is indicated by a temporary OSD located at the bottom center of the screen.

### 6. Volume +/-



#### Primary Function Speaker Volume Control

- Press the **+** button to increase the speaker volume.
- Press the **-** button to decrease the speaker volume.

#### Secondary Function Menu Option Setting Selection

- While in certain Menu modes ( Picture Adjustment, Source Naming), the **+** and **-** buttons adjust settings or navigate through available menu settings.

# AOM-7694

## Installation Instructions

### BEFORE YOU BEGIN INSTALLATION:

Before drilling, be sure that no cable or wiring is on the other side. Clamp all wires securely to reduce the possibility of them being damaged during installation and use.

Keep all cables away from hot or moving parts and electrically noisy components.

### Wiring Definitions:

- |                     |        |  |
|---------------------|--------|--|
| ■ Power Connection: | Pin 1  | CHANNEL 1 TRIGGER -Blue                              |
|                     | Pin 2  | CHANNEL 2 TRIGGER -Brown                             |
|                     | Pin 3  | CHANNEL 3 TRIGGER -Green                             |
|                     | Pin 4  | POWER IN DC (10 TO 32V) -Red                         |
|                     | Pin 5  | AUDIO/MUTE (AUDIO ON/OFF) -White                     |
|                     | Pin 6  | CHANNEL 4 TRIGGER -Orange                            |
|                     | Pin 7  | GROUND -Black  |
|                     | Pin 8  | 2-WAY SPLIT TRIGGER -Yellow                          |
| ■ Camera 1 Input:   | 5-Pin  | Connection for tilt camera or camera extension cable |
| ■ Camera 2 Input:   | 4-Pin  | Connection for camera or camera extension cable      |
| ■ Camera 3 Input:   | 4-Pin  | Connection for camera or camera extension cable      |
| ■ Camera 4 Input:   | 4-Pin  | Connection for camera or camera extension cable      |
| ■ LCD Panel:        | 25-Pin | D-Sub Cable connection to monitor                    |

### General:

1. Choose the monitor and camera locations.
2. Install all required cables in vehicle. A 3/4" (19mm) hole should be drilled for passing camera cables through vehicle walls, barriers, etc.  
Install split grommets where applicable. If additional cable protection is required, install convoluted tubing over the cable.
3. After cable/wiring has been routed and components are in place, temporarily make all system connections and perform a system function check. If the system does not operate properly, see the troubleshooting section.
4. Make sure all cables are routed away from hot or moving parts and away from sharp edges. Secure cables with wire ties.

## AOM-7694

### Backup (Rear) Camera

- Rear-mounted cameras used for monitoring while backing up must be connected to the CA1 input. Trigger#1 must be connected to the reverse gear light circuit in the vehicle.
- There are two camera options for rear camera installations: standard and tilt. Tilt cameras and cables will connect directly to the 5-pin CA1 input. If a standard(non-tilt) camera is installed as the rear camera, a 5-pin to 4-pin adapter harness (31100014/ optional) must be used.

### Side Camera

- If side monitoring cameras are installed, they should be connected to either CA2 or CA3 inputs. Triggers 2 and 3 should be connected to the vehicle's turn signal circuits.

### Navigation

- If a navigation computer is installed using the Component input, select the Navigation setting from the Advanced menu for Source 4. Connect the Red, Green, Blue and Brown RCA connectors from the AOM-7694 to the Navigation unit. Adapter harness (1126810) is required to convert from the 4-pin camera connector to RCA connectors and must be connected to Camera 4 input. Use the Red RCA connector from the harness to connect to the Navigation unit's audio output.
- If a navigation computer is installed using the Composite input, select the A/V setting from the Advanced menu for Source 4. Adapter harness (1126810) is required to convert from the 4-pin camera connector to RCA connectors. Use the Yellow RCA connector to the Navigation unit's composite Video output and the Red RCA connector to connect to the Navigation unit's audio output.

**Note: If connecting a Camera to the Camera 4 input, the Advanced Menu setting for Source A/V 4 must be set to A/V.**

- A remote control repeater connection (1/8 jack) is included to allow control of the navigation computer through the sensor on the front of the AOM-7694 monitor.

### External (Additional) Monitors

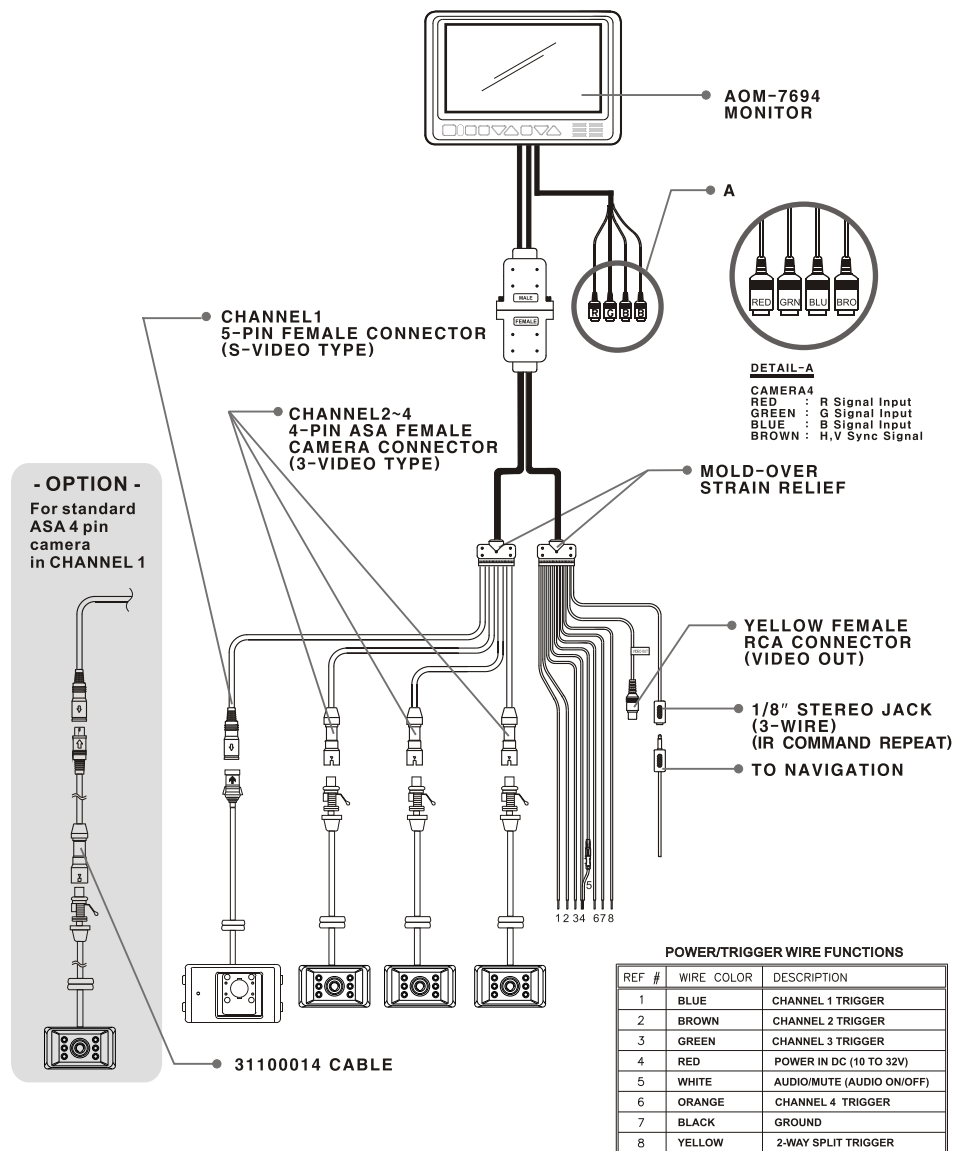
- An RCA video output is included and intended for connection to an external monitor (i.e. bedroom TV).

### Channel Selection On Trigger

- The normal (default) operation is "OFF". To turn this feature on go to the Advanced Menu and select "ON". When "OFF", the Camera selection button will not function when a trigger wire is active. When "ON", the user can manually override the triggered camera by using the Camera selection button.

# AOM-7694

## Typical System Connection



# AOM-7694

## PRODUCT SPECIFICATIONS

### LCD PANEL SPECIFICATIONS

<b>Size/Type</b>	7" (DIAGONAL) TFT LCD	
<b>Brightness</b>	500 cd/㎡ (typ)	
<b>Contrast Ratio</b>	300 (typ)	
<b>View Angles</b>	Top (12 o'clock)	40° (min)
<b>(@ CR≥10)</b>	Bottom (6 o'clock)	60° (min)
	Horizontal	±60° (min)
<b>Response Time</b>	Rise : 12 ms (typ)	
	Fall : 18 ms (typ)	
<b>Backlight Type</b>	CCFL	
<b>Backlight Life</b>	10,000 hrs (min)	

- **Operation Temperature Range** : -20℃ ~ +65℃
- **Storage Temperature Range** : -40℃ ~ +80℃
- **Max Humidity** : 85%
- **Operation Voltage Range** : DC 10V ~ 32V
- **Current Draw (typical)** : Max 30W
- **Signal system** : NTSC or PAL (selectable)
- **Video Aspect Ratio** : 16 : 9  
**Input Level** : 1Vp-p 75Ω
- **Audio Input Level** : Max 0.2 W-150mV
- **Product Weight** : 2.2 lbs / 1Kg
- **Product Dimensions** : Monitor Only Dimensions:  
7.75 W X 5.25 H X 1.25D inches  
Flange Dimensions  
9.25 W X 6.25 H X 2 D inches

# ***Voyager<sup>®</sup>***



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