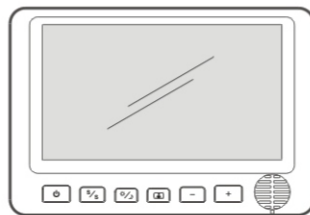


# ***Voyager®***

## **AOM-713WP**

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



#### **AOM-713WP Features:**

- High Performance Automotive Grade 7" Color LCD Panel
- 3 Camera Inputs
- PAL / NTSC Compatible
- DC Auto Source Switching Triggers (Turn Signal Compatible)
- Backlight Control Buttons
- Built-In Audio Speaker
- Compatible with Voyager Standard Camera
- Manual Day/Night Display Brightness Modes
- Programmable Source Name OSD

#### **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-713WP

## Important! - Please Read This Manual Before Installing!

Congratulations on your purchase of a Voyager AOM713WP LCD Observation Monitor. With proper installation and use, your AOM713WP LCD is designed to provide you with years of trouble-free operation. Please read this manual thoroughly before using this product.

All Voyager Observation products are strictly intended to be installed as supplement 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 mirror devices. Or for any other standard motor vehicle equipment required to be installed on vehicles 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 AOM713WP product is designed to be used primarily as a rear observation device in conjunction with closed circuit camera. In any installations where the AOM713WP is used to display television broadcasts or recorded video, playback, installation location must adhere to local laws and regulations.

## Tampering

To prevent electrical 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

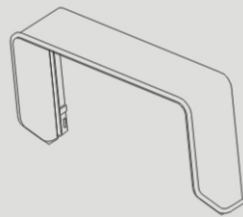
AOM713WP will withstand short periods of exposure to moisture or immersion can be encountered. Direct power washer spray is not recommended for cleaning.

## Depth of view

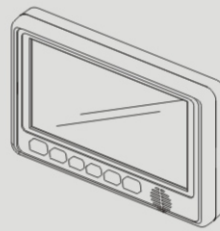
**OBJECTS VIEWED IN MONITOR ARE CLOSER THAN THEY APPEAR.**

# AOM-713WP

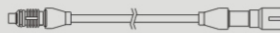
## PACKING CONTENTS



SUN SHIELD  
QTY. 1



LCD MONITOR  
QTY. 1



EXTENSION CABLE  
QTY. 1



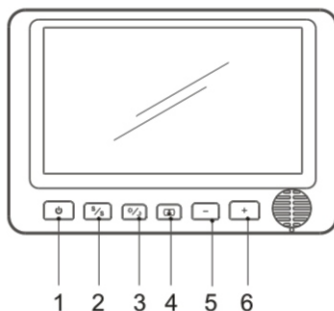
POWER CABLE QTY. 1



Tapping P/H W/Washer  
QTY. 4

# AOM-713WP

## CONTROLS AND OPERATION



### 1. POWER ON/OFF



- Press once turns unit on
- Press again turns unit off
- When power applied and unit is off, only the red power button is backlit.
- When unit is turned on and in night mode, all buttons are backlit.

### 2. SELECT



#### Primary Function Input Source Select

- Pressing "SELECT" button sequences source input modes from CH1 to CH3.
- Source ID is indicated by OSD in top left corner.

#### Secondary Function Menu Option Selection

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

### 3. Day / Night



#### Primary Function DAY/NIGHT Mode Setting

- Pressing "DAY/NIGHT" button sequences day/night backlight compensation through "DAY" and "NIGHT" .

#### Secondary Function Menu Navigation

- While in Menu mode, the button is used to move cursor downward

# AOM-713WP

## 4. MENU



- Each one press less than 1 second enters brightness, contrast, color or tint adjust mode in turns (See Fig.1)
- Time out of OSD menu is approx. 5 seconds from last key pressed

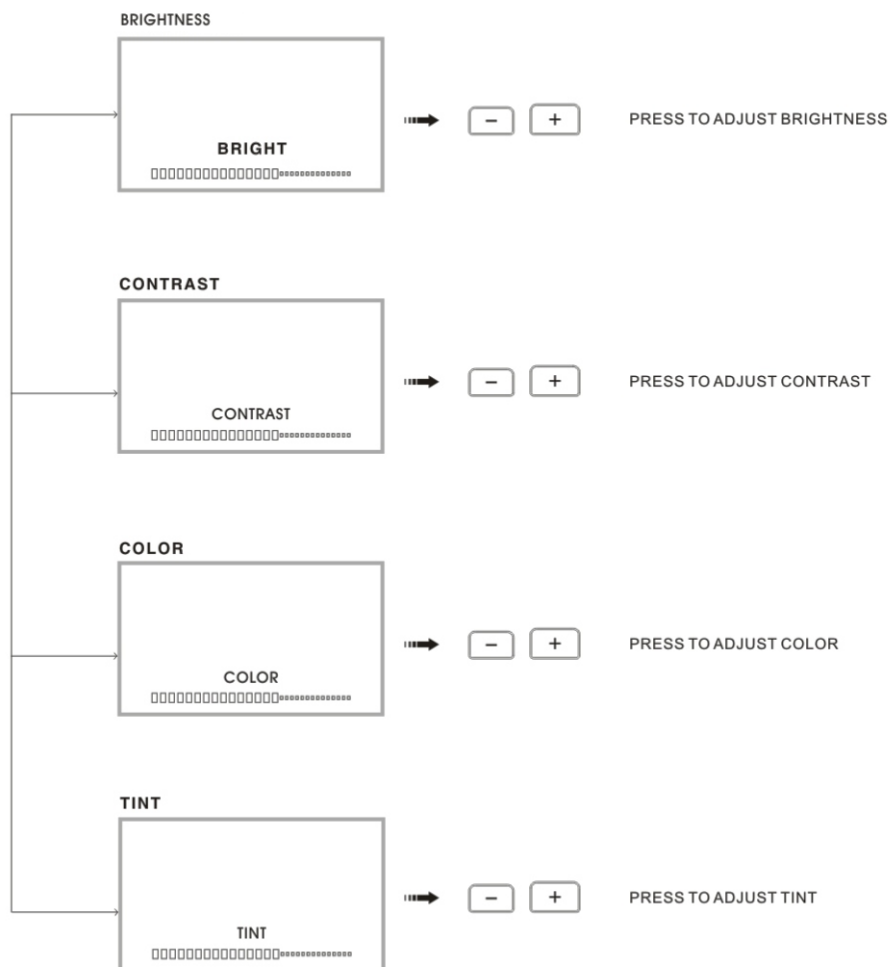


Fig.1 Brightness, contrast, color and tint control

# AOM-713WP



- Press over 2 seconds enters setup menu  
(See Fig.2)
- Press again before time out exits menu mode

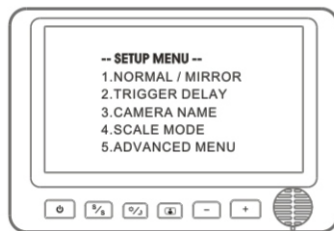
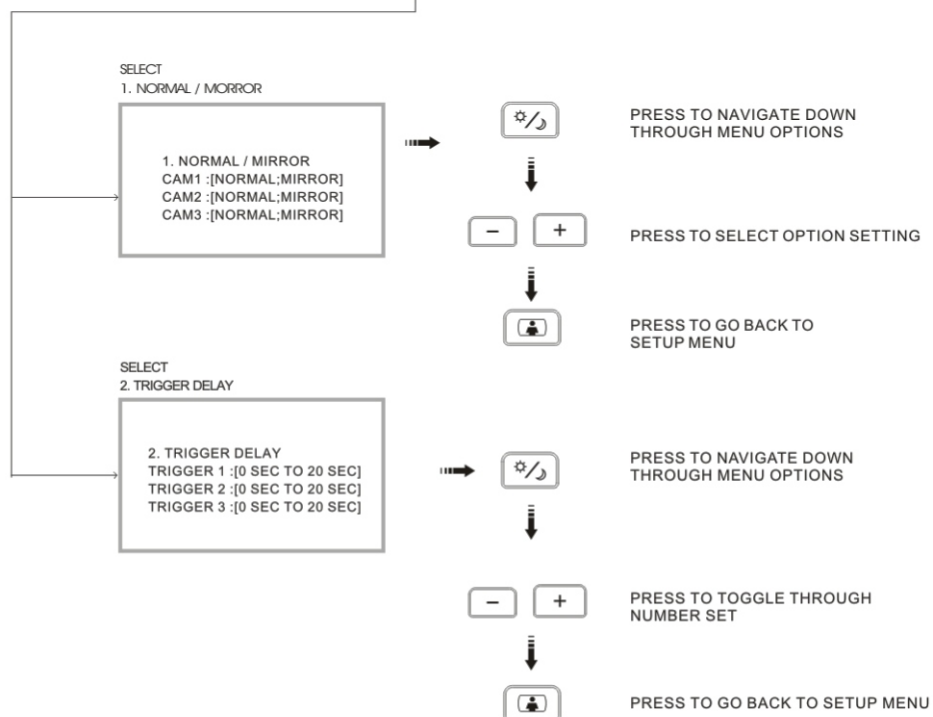
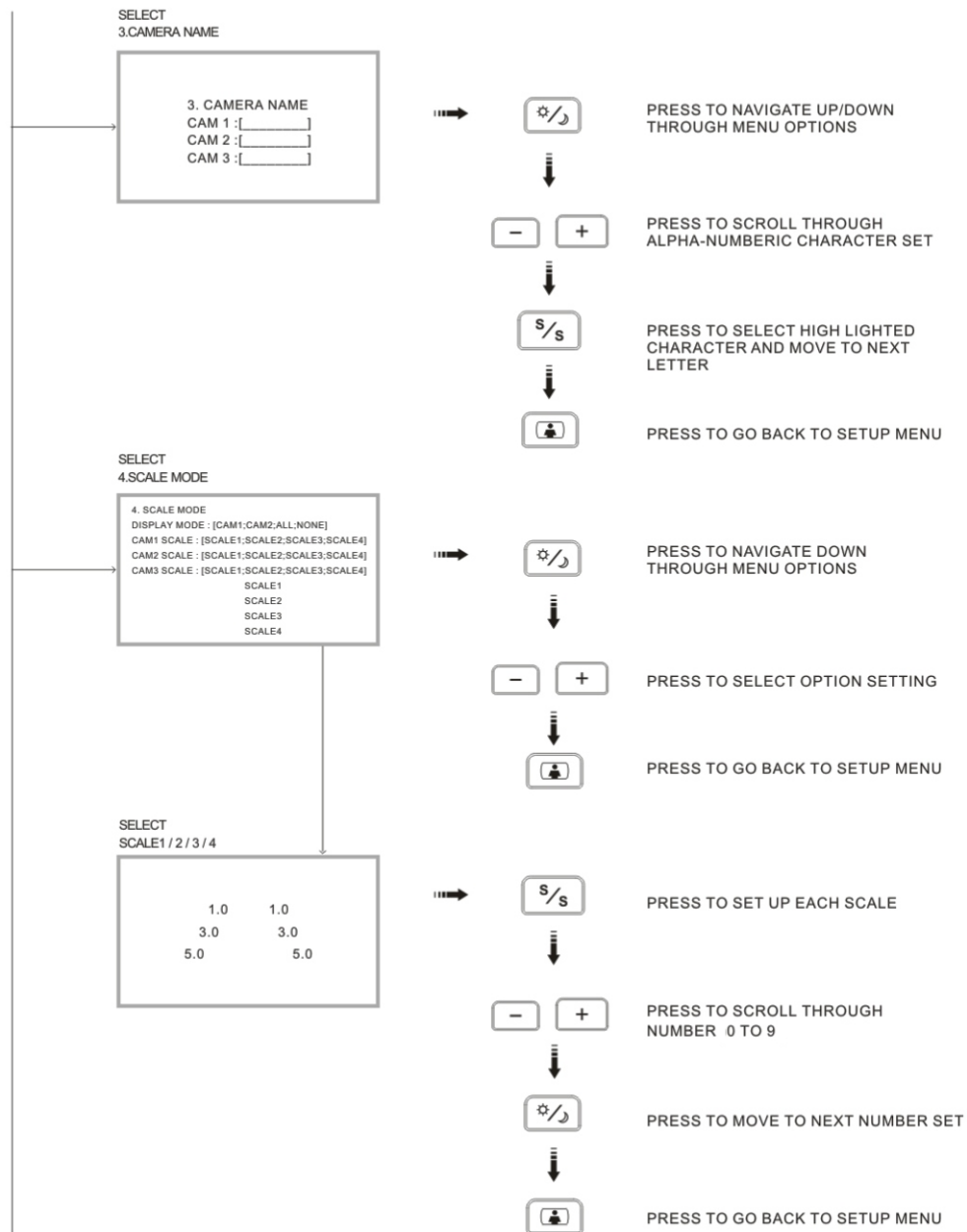


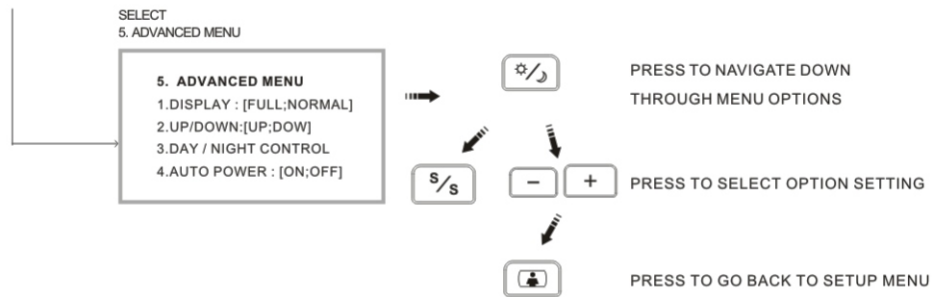
Fig.2 Setup Menu



# AOM-713WP



## AOM-713WP



### 5. Volume +/-



#### Primary Function Speaker Volume Control

- Pressing "-" button decreases speaker volume.
- Pressing "+" button increases speaker volume.

#### Secondary Function Menu Option Setting Selection

- While in certain Menu modes (i.e. Source Naming), the "-" and "+" buttons adjust settings or navigate through the available menu settings.



# AOM-713WP

## 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  | POWER IN DC (10.5V~ 32V) -Red                   |
|                     | Pin 2  | GROUND -Black                                   |
|                     | Pin 3  | CHANNEL 1 TRIGGER -Blue                         |
|                     | Pin 4  | CHANNEL 2 TRIGGER -Brown                        |
|                     | Pin 5  | CHANNEL 3 TRIGGER -Green                        |
|                     | Pin 6  | AUDIO/MUTE (AUDIO ON/OFF) -White                |
| ■ Camera 1 input:   | 4-Pin  | Connection for 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 |
| ■ LCD panel:        | 13-Pin | Large DIN 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 in place, temporarily make all system connections and perform a system function check. If system does not operate properly, see the troubleshooting section cable.
4. Make sure all cables are routed away from hot or moving parts, and away from sharp edges. Secure cables with wire ties.

### Backup (Rear) Camera

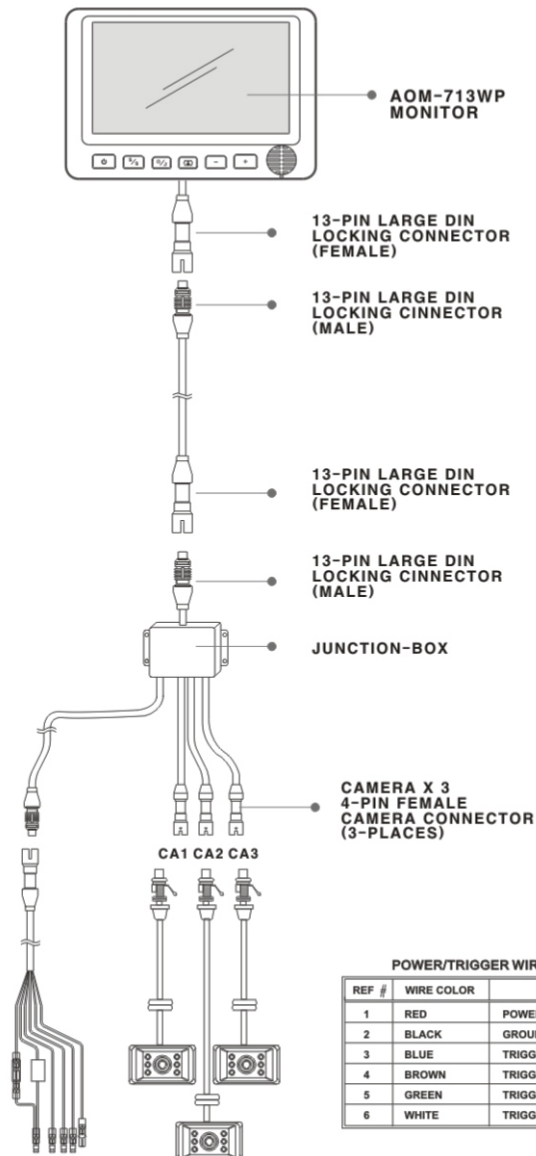
- Rear-mounted cameras used for monitoring while backing up must be connected to the CA1 input. Trigger#1 must be connected to the reverse gear light circuit in the vehicle.

### Side Camera

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

# AOM-713WP

## TYPICAL SYSTEM CONNECTION



# AOM-713WP

## PRODUCT SPECIFICATIONS

### LCD PANEL SPECIFICATIONS

<b>Size/Type</b>	7" (DIAGONAL) TFT LCD	
<b>Brightness</b>	500 cd/m <sup>2</sup> (max)	
<b>Contrast Ratio</b>	300 (max)	
<b>View Angles</b>	Top (12 o'clock)	50° (min)
<b>(@ CR≥10)</b>	Bottom (6 o'clock)	70° (min)
	Horizontal	±70° (min)
<b>Response Time</b>	Rise : 12 ms (typ) ; 24ms (max)	
	Fall : 18 ms (typ) ; 36ms (max)	
<b>Back Light Type</b>	CCFL	
<b>Back Light Life</b>	10,000 hrs (min)	

- **Operation Temperature Range** : -20℃ ~ +65℃
- **Storage Temperature Range** : -35℃ ~ +85℃
- **Max Humidity** : 85%
- **Operation Voltage Range** : DC 10.5V ~ 32V
- **Current Draw (typical)** : Max 15W
- **Signal system** : NTSC or PAL ( Auto detection)
- **Video      Aspect Ratio** : 16 : 9  
**Input Level** : 1Vp-p 75Ω
- **Audio      Input Level** : Max 0.2 W-150mV
- **Product Weight** : 1.43 lbs / 650 g
- **Product Dimensions** : Monitor Only Dimensions  
7.75 W X 5.25 H X 1.25D inches



THIS SYMBOL MEANS DO NOT DISPOSE OF  
AS MUNICIPAL WASTE.  
RE-USE OR RECYCLE WHEREVER POSSIBLE.  
ELECTRICAL / ELECTRONIC COMPONENTS MAY  
CONTAIN SUBSTANCES WHICH ARE HARMFUL TO  
THE ENVIRONMENT.  
FOR ENVIRONMENTALLY SOUND METHODS OF  
DISPOSAL, PLEASE CONTACT YOUR LOCAL  
GOVERNMENT AUTHORITY.

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