VOM719WP

7" COLOR TFT LCD MONITOR

OWNER’S MANUAL

VOM719WP Features

- Engineered for heavy-duty, commercial use
- Six camera triggers
- Waterproof housing (IPX6)
- Supports AMPS mounting pattern
- High-performance Automotive Grade 7" Color LCD Panel
- Four Camera Inputs
- Single/Split/Quad Display Modes
- PAL/NTSC Compatible
- DC Auto Source for Switching Triggers (Turn Signal Compatible)
- Backlight Control Buttons
- Built-in Audio Speaker
- Compatible with Voyager Wired Cameras

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.
Moisture

Your Voyager VOM719WP is designed to be IP66 water-resistant. Therefore it can withstand long period of exposure to moisture. This unit should NEVER be cleaned with a power washer or used where direct power washer spray may be encountered.
1. POWER ON/OFF
-Press once to turn on unit
-Press again to turn off unit

2. CAMERA
Press to switch camera channels, switch order as below
CH1 → CH2 → CH3 → CH4
SPLIT 4WAY ← SPLIT 3WAY ← SPLIT 2WAY

3. DIMMER
Switch between DAY & NIGHT mode

4. MENU
Primary Function: Enter Menu
-Press to enter the menu
Secondary Function: Menu Option Selection
-When in menu mode, press to select the highlighted function or option setting
Third Function: Auto Scan
-Press button for 3s, the monitor will enter into the auto scan function

5&6. UP/DOWN
Primary Function
-Pressing 'UP' button increase brightness, contrast, color, tint, volume.
-Pressing 'DOWN' button decrease brightness, contrast, color, tint, volume.
Secondary Function
-While in menu modes, the 'UP' 'DOWN' are used to select the option setting.
MENU

PRESS TO ENTER THE MENU

PRESS TO NAVIGATE UP/DOWN

PRESS TO SELECT

LANGUAGE

ENGLISH
FRENCH
PORTUGUESE
SPANISH
EXIT

PRESS TO SELECT THE LANGUAGE

PRESS TO SET THE LANGUAGE

PRESS 'Õ' FOR PREVIOUS MENU
PRESS 'EXIT' TO EXIT THE OSD

DISPLAY SETTINGS

BRIGHTNESS O TO 40
CONTRAST O TO 40
COLOR O TO 40
TINT O TO 40
EXIT O TO 40

PRESS TO SET EACH SETTING OPTION

PRESS TO ADJUST THE NUMBER

PRESS TO CONFIRM THE SETTING

PRESS 'Õ' FOR PREVIOUS MENU
PRESS 'EXIT' TO EXIT THE OSD
MARKER SETUP

- LINE SETUP
  - LINE 1 CH1, OFF
- MARKER NUMBERS
- TRIGGER PRIORITY CH1, CH2, CH3, CH4, SPLIT
- IMPERIAL FEET, METER

DISPLAY

- MODE STANDARD, SOFT, VIVID, LIGHT
- SPLIT-2-WAY
- SPLIT-3-WAY
- SPLIT-4-WAY
- SPLIT TRIG 2WAY, 3WAY, 4WAY

"SPLIT-2-WAY"

- SOURCE1 CH1
- SOURCE2 CH2
- AUDIO CH1

"SPLIT-3-WAY"

- SOURCE1 CH1
- SOURCE2 CH2
- SOURCE3 CH3
- AUDIO CH1

Press to navigate setting option
Press to select the setting
Press ‘uesta’ for previous menu
Press ‘exit’ to exit the OSD

Press to change the setting
Press ‘uesta’ for previous menu
Press ‘exit’ to exit the OSD
“SPLIT-4-WAY”

SOURCE1  CH1
SOURCE2  CH2
SOURCE3  CH3
SOURCE4  CH4
AUDIO  CH1
EXIT

MISCELLANEOUS

DIMMING  DAY, NIGHT1, NIGHT2, NIGHT3, NIGHT4
SCREENSAVER  OFF, 10, 20, 60
SOURCE NAME
AUTO POWER ON  ON, OFF
FIRMWARE  VOM719WP-V__
EXIT

SOURCE NAME

CH1  CAM1
CH2  CAM2
CH3  CAM3
CH4  CAM4
EXIT

RESET

RESET  PRESS TO RESET THE SYSTEM

PRESS TO NAVIGATE SETTING OPTION

PRESS TO CHANGE THE SETTING

PRESS ‘ęb’ FOR PREVIOUS MENU
PRESS ‘EXIT’ TO EXIT THE OSD

PRESS TO NAVIGATE SETTING OPTION

PRESS TO SELECT THE SETTING

PRESS ‘ęb’ FOR PREVIOUS MENU
PRESS ‘EXIT’ TO EXIT THE OSD

PRESS TO NAVIGATE SETTING OPTION

PRESS TO SELECT THE SETTING

PRESS ‘ęb’ FOR PREVIOUS MENU
PRESS ‘EXIT’ TO EXIT THE OSD
Rear-mounted cameras used for monitoring while backing up should be connected to the Camera 1 input. If the rear camera image is desired to be displayed automatically when in reverse gear, channel 1 trigger should be connected to the reverse gear light circuit in the vehicle.

If side monitoring cameras are installed, they should be connected to either Camera 2 or Camera 3 input. If side camera image is desired to be displayed when changing lanes, triggers 2 and 3 should be connected to the vehicle’s turn signal.

**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.

**Backup (Rear) Camera**
- Rear-mounted cameras used for monitoring while backing up should be connected to the Camera 1 input. If the rear camera image is desired to be displayed automatically when in reverse gear, channel 1 trigger should be connected to the reverse gear light circuit in the vehicle.

**Side Camera**
- If side monitoring cameras are installed, they should be connected to either Camera 2 or Camera 3 input. If side camera image is desired to be displayed when changing lanes, triggers 2 and 3 should be connected to the vehicle’s turn signal.

**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(12/24VDC) — 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: CHANNEL 4 TRIGGER — Orange
  - Pin 7: AUDIO TRIGGER — White
  - Pin 8: SPLIT TRIGGER — Yellow
- **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
- **Camera 4 Input:**
  - 4-Pin: Connection for camera or camera extension cable
TYPICAL SYSTEM CONNECTION

POWER/TRIGGER WIRE FUNCTIONS

<table>
<thead>
<tr>
<th>REF#</th>
<th>WIRE COLOR</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>RED</td>
<td>POWER IN 12-24V DC</td>
</tr>
<tr>
<td>2</td>
<td>BLACK</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>BLUE</td>
<td>TRIGGER1 (CAM1)</td>
</tr>
<tr>
<td>4</td>
<td>BROWN</td>
<td>TRIGGER2 (CAM2)</td>
</tr>
<tr>
<td>5</td>
<td>GREEN</td>
<td>TRIGGER3 (CAM3)</td>
</tr>
<tr>
<td>6</td>
<td>ORANGE</td>
<td>TRIGGER4 (CAM4)</td>
</tr>
<tr>
<td>7</td>
<td>WHITE</td>
<td>AUDIO TRIGGER</td>
</tr>
<tr>
<td>8</td>
<td>YELLOW</td>
<td>SPLIT TRIGGER</td>
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</tbody>
</table>
VOM719WP

PRODUCT SPECIFICATIONS

LCD PANEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size/Type</th>
<th>7”(Digital) TFT LCD</th>
</tr>
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<tbody>
<tr>
<td>Brightness</td>
<td>400 cd/m² (typ)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>500</td>
</tr>
<tr>
<td>View Angle (CR ≥10)</td>
<td></td>
</tr>
<tr>
<td>Top (12 0'clock)</td>
<td>40° (typ)</td>
</tr>
<tr>
<td>Bottom (6 0'clock)</td>
<td>60° (typ)</td>
</tr>
<tr>
<td>Horizontal</td>
<td>60° (typ)</td>
</tr>
<tr>
<td>Response Time</td>
<td>10ms</td>
</tr>
<tr>
<td></td>
<td>20ms</td>
</tr>
<tr>
<td>Back Light Type</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light Life</td>
<td>50,000 hrs (min)</td>
</tr>
</tbody>
</table>

- **Operation Temperature Range**: -20°C ~ +85°C
- **Storage Temperature Range**: -40°C ~ +85°C
- **Max Humidity**: 85%
- **Operation Voltage Range**: DC12V~24V
- **Current Draw (typical)**: 337mA@12VDC
- **Signal system**: NTSC or PAL (Auto detection)
- **Video Aspect Ratio**: 16 : 9
  - **Input Level**: 1Vp-p 75Ω
- **Audio Input Level**: 150mV(Max)
- **Product Dimensions**: 7.91W x 5.35H x 1.22D (Inches)
- **Product Weight**: 3.57 lbs/1625 g