VOM74MM Features

- High Performance Automotive Grade 7" Color LCD Panel
- 3 Camera Inputs
- PAL/NTSC Compatible
- Mechanical Button
- Built-In Audio Speaker
- Compatible with Voyager Standard Camera
- 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.
Important! - Please Read This Manual Before Installing!

Congratulations on your purchase of a Voyager VOM74 MM LCD Observation Monitor. With proper installation and use, your VOM74MM LCD is designed to provide you with years of trouble-free operation. Please read this manual thoroughly before beginning.

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-view 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 VOM74 MM product is designed to be used primarily as a rear observation device in conjunction with closed circuit camera. In any installations where the VOM74MM 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. If evidence of tampering is detected, the warranty will be considered void and all parts will be non serviceable. There are no user serviceable parts inside the warranty will be considered void.

Moisture

While it will withstand short periods of exposure to moisture, this product does contain sensitive electronic components and exposure should be limited by the user/installer. This product is not designed for locations where constant exposure to moisture or immersion can be encountered. 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 ON MONITOR ARE CLOSER THAN THEY APPEAR.
PACKING CONTENTS

LCD MONITOR QTY.1

CABLE QTY.1

METAL BRACKET QTY.1

MACHINE SCREW QTY.4 (M3X7mm)
CONTROLS AND OPERATION

1, POWER ON/OFF

- Press once to turn on unit
- Press again to turn off unit

2, MENU

**Primary Function  Enter OSD**
- Press 'MENU' button to enter the OSD

**Secondary Function  Return to previous menu**
- While in menu modes, the 'MENU' button is used to return to previous menu.

3, SELECT

**Primary Function  Input Source Select**
- Press 'SELECT' button sequences source input modes from CH1 to CH3.

**Secondary Function  Menu Option Selection**
- While in menu mode, the 'SELECT' button is used to select the highlighted function or option setting.

4 & 5, UP/DOWN

**Primary Function**
- Pressing ‘UP’ button increase brightness, contrast, color, tint, volume or sleep.
- Pressing ‘DOWN’ button decrease brightness, contrast, color, tint, volume or sleep.

**Secondary Function**
- While in menu modes, the ‘UP’ ‘DOWN’ are used to select the option setting.
MENU

PRESS TO ENTER THE OSD

PRESS TO NAVIGATE UP/DOWN

PRESS TO SET UP EACH MENU

PICTURE

PICTURE
BRIGHTNESS 0 TO 100
CONTRAST 0 TO 100
COLOR 0 TO 100
TINT 0 TO 100
RETURN
EXIT

PRESS TO SET EACH SETTING OPTION

PRESS TO ADJUST THE NUMBER

PRESS TO CONFIRM THE SETTING

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

VOLUME

VOLUME 0 TO 100
BC VOLUME 0 TO 100
RETURN
EXIT

PRESS TO SET EACH SETTING OPTION

PRESS TO ADJUST THE NUMBER

PRESS TO CONFIRM THE SETTING

PRESS 'RETURN' FOR PREVIOUS MENU
PRESS 'EXIT' TO EXIT THE OSD
OPTION

- MODE: STANDARD, SOFT, VIVID, LIGHT, PERSONAL
- DAY, NIGHT1, NIGHT2, AUTO
- OFF, 10 SEC, 20 SEC, 60 SEC
- 16:9, 4:3

- DIM:
- SCREENSAVER
- ZOOM
- AUTOPOWER
- KEYLED
- RETURN
- EXIT

SCANNING CONFIG

- SCAN: ON, OFF
- CAM1: 0 SEC TO 100 SEC
- CAM2: 0 SEC TO 100 SEC
- CAM3: 0 SEC TO 100 SEC

- RETURN
- EXIT

TRIGGER DELAY

- CAM1: 0 SEC TO 100 SEC
- CAM2: 0 SEC TO 100 SEC
- CAM3: 0 SEC TO 100 SEC
- MARKER: ON, OFF
- SCALE1
- SCALE2
- SCALE3
- RETURN
- EXIT

RESET

- RESET

Press to set each setting option.

Press to select each setting option.

Press to confirm the setting.

Press ‘RETURN’ for previous menu.

Press ‘EXIT’ to exit the OSD.

Press to set each setting option.

Press to adjust the number.

Press to confirm the setting.

Press ‘RETURN’ for previous menu.

Press ‘EXIT’ to exit the OSD.

Press to set each setting option.

Press to adjust the number.

Press to confirm the setting.

Press ‘RETURN’ for previous menu.

Press ‘EXIT’ to exit the OSD.

Press to reset the system.
Trigger lines 2 and 3 should be connected to the vehicle's turn signal circuits.

CAM2 and CAM3 inputs.

CAM1 input

Wiring Definitions:

- Power connection:  Pin 1  POWER IN DC (12V-24V) -Red
  Pin 2  GROUND -Black
  Pin 3  CHANNEL 1 TRIGGER -Blue
  Pin 4  CHANNEL 2 TRIGGER -Brown
  Pin 5  CHANNEL 3 TRIGGER -Green

- 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 wall, 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 regarding 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 camera used for monitoring while backing up must be connected to the CAM1 input. Trigger1 must be connected to the reverse gear light circuit.

Side Camera

- The side mounted camera should be connected to the CAM2 and CAM3 inputs. Trigger lines 2 and 3 should be connected to the vehicle's turn signal circuits.
TYPICAL SYSTEM CONNECTION

CAMERA X3
4-PIN FEMALE CAMERA CONNECTOR

13-PIN LARGE DIN CONNECTOR (MALE)

13-PIN LARGE DIN CONNECTOR (FEMALE)

POWER/TRIGGER WIRE FUNCTIONS

<table>
<thead>
<tr>
<th>REF #</th>
<th>WIRE COLOR</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>RED</td>
<td>POWER IN DC 12~24V</td>
</tr>
<tr>
<td>2</td>
<td>BLACK</td>
<td>GROUND</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>TRIGGER1 (CAM3)</td>
</tr>
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VOM74MM

PRODUCT SPECIFICATIONS

LCD PANEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size/Type</th>
<th>7”(Digital) TFT LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>400 cd/m² (typ)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>500</td>
</tr>
<tr>
<td>View Angles</td>
<td>Top (12 o’clock) 40° (typ)</td>
</tr>
<tr>
<td>(@CR≥1 0)</td>
<td>Bottom (6 o’clock) 60° (typ)</td>
</tr>
<tr>
<td></td>
<td>Horizontal 60° (typ)</td>
</tr>
<tr>
<td>Response Time</td>
<td>15ms</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 ~ +70°C
- **Storage Temperature Range**: -30°C ~ +80°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**: 10.04W x 4.72H x 1.24D (Inches)
- **Product Weight**: 2.65 lbs/1200g