Voyager VOM718

Voyager VOM718 7" LCD Color Backup Rear View Vehicle Observation Monitor

Model: VOM718

1. Introduction and Overview

The Voyager VOM718 is a heavy-duty 7-inch LCD color monitor designed for vehicle observation systems. It supports up to three camera inputs, allowing drivers to eliminate blind spots and enhance safety during backing up, changing lanes, and maneuvering in traffic. The monitor features NTSC and PAL video signal compatibility, a 480 x 234 resolution LCD panel, and is compatible with 12V and 24V power systems. It includes automatic day/night brightness modes and trigger inputs for turn signals, providing a comprehensive solution for vehicle rear view and observation needs.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1x Voyager VOM718 Monitor
- Sun Shield
- 1x Wiring Cable
- 4x P/H Machine Screws M4X8mm

3. Key Features

- High Performance Automotive Grade 7" Wide-View Color LCD panel.
- Energy-efficient, white LED illumination.
- Back-lit controls for easy operation in various lighting conditions.

- Three camera (A/V) inputs for versatile connectivity.
- NTSC and PAL video signal compatible.
- Manual (pushbutton) or automatic (trigger) source selection.
- Turn-signal (pulsed DC) compatible trigger inputs (AV2, AV3).
- Auto power ON (standby) function.
- On-Screen Display (OSD) for AV source, picture adjustment, and volume level.
- Day/Night brightness modes for optimal viewing.
- Non-volatile memory for picture and volume adjustment settings.
- Multiple mounting options (AMPS compatible).
- Removable sun-visor included.
- Built-In Audio Speaker.
- Compatible with Voyager Standard Cameras (cameras sold separately).

4. Setup and Installation

Proper installation is crucial for optimal performance. It is recommended to have this monitor installed by a qualified professional.

4.1 Mounting the Monitor

The VOM718 monitor offers multiple mounting options, including AMPS compatibility. Choose a secure location in your vehicle that provides a clear view for the driver and does not obstruct airbags or other safety features. Ensure the mounting surface is stable and can support the weight of the monitor.

4.2 Wiring Connections

Connect the provided wiring cable to the monitor and to your vehicle's power system. The monitor is compatible with 12V and 24V DC power systems. Connect your Voyager observation cameras (sold separately) to the AV1, AV2, and AV3 inputs on the monitor. Utilize the trigger inputs for AV2 and AV3 if you wish to automatically switch camera views with turn signals.

Figure 4.1: Front view of the Voyager VOM718 monitor, showing the display and control buttons.

Figure 4.2: Side view of the Voyager VOM718 monitor, illustrating its compact dimensions and potential mounting points.

5. Operating Instructions

5.1 Powering On/Off

The monitor can be powered on manually using the power button or automatically via the auto power ON (standby) feature when the vehicle ignition is turned on.

5.2 Switching Camera Inputs

You can manually cycle through the AV1, AV2, and AV3 camera inputs using the "AV" button on the front panel. If

configured, the monitor will automatically switch to AV2 or AV3 when the corresponding turn signal is activated.

5.3 Adjusting Settings (OSD)

Use the menu buttons to access the On-Screen Display (OSD). From the OSD, you can adjust various picture settings such as brightness, contrast, and color, as well as the volume level of the built-in speaker. All adjustments are saved in non-volatile memory.

5.4 Day/Night Brightness Modes

The monitor features automatic day/night brightness modes to ensure optimal visibility in varying light conditions. This feature adjusts the screen brightness to reduce glare during the day and prevent excessive brightness at night.

Figure 5.1: Close-up of the Voyager VOM718 monitor's control buttons, including power, navigation, menu, and AV input selection.

6. Maintenance

To ensure the longevity and optimal performance of your Voyager VOM718 monitor, follow these maintenance guidelines:

- **Cleaning the Screen:** Use a soft, lint-free cloth slightly dampened with water or a non-abrasive screen cleaner. Do not use harsh chemicals, solvents, or abrasive materials, as these can damage the LCD panel.
- **Cleaning the Casing:** Wipe the monitor casing with a soft, dry cloth. Avoid getting liquids into the openings.
- **Environmental Care:** Avoid exposing the monitor to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cable Inspection:** Periodically check all cables and connections for signs of wear or damage. Ensure they are securely connected.

7. Troubleshooting

If you encounter issues with your VOM718 monitor, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Power	Loose power connection, blown fuse, vehicle power issue.	Check power cable connections. Inspect vehicle's fuse box. Verify vehicle's power supply.
No Image on Screen	Camera not connected, incorrect AV input selected, faulty camera.	Ensure camera is properly connected to the correct AV input. Cycle through AV inputs. Test with a known working camera if possible.
Poor Image Quality	Dirty camera lens, damaged video cable, incorrect OSD settings.	Clean camera lens. Check video cable for damage. Adjust brightness, contrast, and color settings via OSD.
Automatic Switching Not Working	Trigger wire not connected, incorrect wiring, vehicle signal issue.	Verify trigger wire connections for AV2/AV3. Ensure the vehicle's turn signal provides the correct pulsed DC signal.

If the problem persists after attempting these solutions, please contact Voyager customer support or a qualified service technician.

8. Specifications

Specification	Value
Model	VOM718
Screen Size	7 Inches
Resolution	480 x 234
Aspect Ratio	16:9
Image Contrast Ratio	400:1
Power System	12V DC
Operating Voltage Range	10 ~ 24V
Current Draw @ 12V (Idle)	100mA
Current Draw @ 12V (Nominal)	492mA
Current Draw @ 12V (Maximum)	507mA
Operating Temperature Range	-4°F to 149°F (-20°C to 65°C)
Storage Temperature Range	-40°F to 176°F (-35°C to 80°C)
Operating Relative Humidity	85%
Overall Dimensions (W x H x D)	7.56" x 5.06" x 1.10"

Specification	Value
Product Weight (unpackaged)	1.3 lbs (0.59 kg)
Video / Display System	NTSC/PAL
Video Input Signal (Composite)	1Vp-p @ 75 ohms
Audio Output	1W
Brightness	450 nit
View Angles (Top/Bottom/Left/Right)	55°/65°/70°/70°
Backlight Type	LED
Backlight Life (min)	20,000 Hours
Response Time (Rise/Fall)	15 ms / 20 ms

9. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Voyager website. For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact Voyager customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.