

BW 4.3Pin Mian

BW 4.3 inch TFT LCD Digital Car Rear View Monitor User Manual

Model: 4.3Pin Mian

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BW 4.3 inch TFT LCD Digital Car Rear View Monitor. This monitor is designed to enhance vehicle safety by providing a clear display for backup cameras and other video sources. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. SAFETY INFORMATION

- Ensure the monitor is securely mounted and does not obstruct the driver's view or interfere with vehicle controls.
- Connect the power supply correctly to avoid electrical damage. The monitor operates on DC 12V/24V.
- Do not expose the monitor to extreme temperatures outside the specified operating range (-10 to 50 Centigrade) or direct sunlight for prolonged periods.
- Avoid exposing the unit to moisture or liquids.
- Do not attempt to disassemble or repair the monitor yourself. Refer all servicing to qualified personnel.
- Always observe traffic laws and drive safely. The monitor is an aid and should not replace proper driving practices.

3. PRODUCT FEATURES

- **Display:** 4.3 inch TFT LCD screen with 480 x 272 resolution.
- **Aspect Ratio:** 16:9 display format.
- **Video Inputs:** Supports 2-channel video input (V1, V2) for connecting multiple video sources like backup cameras, DVD players, or VCD players.
- **Automatic Detection:** Supports automatic startup detection when reversing, displaying the camera feed instantly.
- **Video System:** NTSC / PAL auto-switchable for broad compatibility.
- **Mounting:** Features a 360-degree swivel stand with an adhesive sticker for flexible installation on your dashboard.
- **Signal Management:** Displays a black screen when no video signal is detected.



Figure 3.1: The 4.3-inch display size of the monitor.

4. SETUP AND INSTALLATION

Follow these steps to properly install your BW Car Rear View Monitor:

1. **Choose a Mounting Location:** Select a flat, clean surface on your dashboard or another suitable area in your vehicle. Ensure the location does not obstruct your view of the road or interfere with airbags. The monitor's swivel stand allows for flexible positioning.
2. **Mount the Monitor:** Clean the chosen surface thoroughly. Remove the protective film from the adhesive sticker on the bottom of the swivel stand and firmly press the monitor onto the surface. Hold for a few seconds to ensure a strong bond. Adjust the monitor angle using the swivel mechanism for optimal viewing.
3. **Connect Video Sources:** The monitor supports two video inputs, labeled V1 and V2.
 - Connect your primary video source (e.g., backup camera) to the yellow RCA connector labeled **AV1**.
 - Connect a secondary video source (e.g., DVD player) to the white RCA connector labeled **AV2**.



Figure 4.1: Video and Power Input Connections.

4. **Connect Power:** Connect the red power connector to a DC 12V or 24V power source in your vehicle. Ensure proper polarity (red for positive, black for negative). For backup camera integration, it is recommended to connect the power lead to the vehicle's reverse light circuit, allowing the monitor to automatically activate when the vehicle is put into reverse.
5. **Cable Management:** Route all cables neatly and securely to prevent interference with driving or damage to the cables.



Figure 4.2: Overview of the monitor and its connections.

5. OPERATING INSTRUCTIONS

The BW monitor is designed for simple operation:

- **Power On/Off:** The monitor will automatically power on when a video signal is detected on the connected input, especially if wired to the reverse light circuit for backup camera use. It will display a black screen when no signal is present.
- **Video Input Switching:** The monitor automatically switches between NTSC and PAL video systems. If multiple video sources are connected, the monitor typically prioritizes the input connected to AV1 or automatically switches to the active signal. Specific manual switching instructions are not provided, but the back of the unit features 'MENU', '+', and '-' buttons for potential adjustments.
- **Display Adjustment:** Use the buttons on the back of the monitor (refer to Figure 5.1) to access and navigate the menu for display adjustments such as brightness, contrast, or color, if available.



Figure 5.1: Rear view of the monitor with control buttons.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the monitor screen and casing. Do not use abrasive cleaners, solvents, or spray directly onto the screen.
- **Temperature:** Operate and store the monitor within the specified temperature ranges: Work: -10 to 50 Centigrade; Storage: -30 to 70 Centigrade.
- **Cable Inspection:** Periodically check all cables and connections for wear or damage. Ensure they remain securely fastened.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Monitor does not power on.	No power supply or incorrect wiring.	Check power connections (DC 12V/24V). Ensure correct polarity. Verify the power source is active.
No image displayed (black screen).	No video signal input or incorrect video connection.	Ensure the video source (e.g., camera) is powered on and functioning. Check the RCA cable connections to AV1/AV2. The screen will only be bright when linked to a signal source.

Problem	Possible Cause	Solution
Image is distorted or unclear.	Poor video signal quality or incorrect display settings.	Check the video cable for damage or loose connections. Adjust brightness, contrast, and color settings using the monitor's menu buttons.
Monitor stand is loose.	Adhesive sticker losing grip or swivel mechanism wear.	Re-secure the stand with a stronger adhesive if necessary. The swivel mechanism may not be user-adjustable for tightness.

8. SPECIFICATIONS

Screen Size	4.3 inch TFT LCD
Resolution	480 x 272 pixels
Display Format	16:9
Video Input	2-channel (V1, V2)
Video System	NTSC / PAL (auto switchable)
Power Supply	DC 12V / 24V
Power Consumption	3W
Visible Area	72 x 53 mm
Operating Temperature	-10 to 50 Centigrade
Storage Temperature	-30 to 70 Centigrade
Product Dimensions (L x W x D)	120 x 70 x 15 mm (4.72 x 2.76 x 0.59 inches)
Product Weight	128g (4.5 oz)



Figure 8.1: Product Dimensions.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.