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DALLUX RCS7002

DALLUX RCS7002 Heavy Duty Vehicle Backup Camera System

Instruction Manual

1. Introduction

Thank you for choosing the DALLUX RCS7002 Heavy Duty Vehicle Backup Camera System. This system is designed to enhance safety and visibility for large vehicles such as trucks, buses, vans, trailers, RVs, and campers. It features a 7-inch LCD monitor, a waterproof night vision camera, and a 66ft extension cable, operating on both 12V and 24V power systems. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of the product.

2. Package Contents

Verify that all items listed below are included in your package:

- 7-inch LCD Monitor
- Backup Camera (1/3" CCD 800 TVL)
- 66ft Extension Cable (4-pin aviation connector)
- Remote Control
- Monitor Mounting Brackets (Suction Cup, U-shaped, Dashboard Stand)
- Power Cord
- Power Cord Fuse
- Installation Accessories (screws, bolts, Allen wrench)



Figure 2.1: All components included in the DALLUX RCS7002 package.

3. Product Features

- **High-Resolution Camera:** 1/3" CCD 800 TVL camera provides clear, natural color images.
- **IP69K Waterproof Rating:** The camera is completely waterproof, ensuring reliable operation in all weather conditions.
- **Enhanced Night Vision:** Equipped with 18 infra-red lights, offering visibility up to 50ft in complete darkness.
- **Wide Viewing Angle:** An ultra-wide 130° viewing angle eliminates blind spots for comprehensive rear visibility.
- **Auto-Dimming Monitor:** The 7-inch LCD monitor automatically adjusts brightness based on ambient light for optimal viewing day and night.
- **Multiple Mounting Options:** The monitor can be mounted on the windscreen with a suction bracket, or on the dashboard using a butterfly-shaped or U-shaped bracket.
- **Durable 4-Pin Cable:** Special thick hard wire 4-pin cable ensures stable power and signal transmission, improved over standard AV cables.

Figure 3.1: DALLUX backup camera system in a typical vehicle application.

4. Setup & Installation

4.1 Camera Installation

Mount the camera securely at the rear of your vehicle. Ensure the camera has a clear, unobstructed view. The camera's robust metal housing and IP69K rating allow for external mounting.



Figure 4.1.1: Front view of the DALLUX backup camera.



Figure 4.1.2: Rear view of the DALLUX backup camera.



Figure 4.1.3: DALLUX backup camera dimensions and rotation.

4.2 Monitor Installation

Choose one of the provided mounting methods for the 7-inch LCD monitor:

1. **Suction Cup Mount:** Attach the suction cup bracket to a clean, smooth surface on your windshield.
2. **Dashboard Stand:** Use the butterfly-shaped bracket to place the monitor on your dashboard.
3. **U-shaped Bracket:** Secure the monitor using the U-shaped bracket for a more permanent dashboard or overhead installation.



Figure 4.2.1: Monitor mounting options.



Figure 4.2.2: Monitor dimensions.

4.3 Wiring Diagram

Connect the camera to the monitor using the provided 66ft 4-pin extension cable. The 4-pin aviation connector ensures secure and reliable transmission of power, ground, audio, and video signals.



Figure 4.3.1: 4-pin connector configuration.

For continuous operation (e.g., driving), connect the camera to AV1 and ignore the green wire. For reverse-only operation, connect the camera to AV2 and connect the green wire to the reversing light circuit. This will automatically display the camera feed when reversing.



Figure 4.3.2: Installation wiring diagram.

Ensure all connections are secure and waterproofed, especially for external components, to prevent signal loss and damage from environmental factors.

5. Operating Instructions

5.1 Basic Operation

- **Power On/Off:** Press the power button on the monitor or remote control to turn the system on or off.
- **Input Selection:** Use the 'CAM' or 'MODE' button to switch between camera inputs (AV1/AV2) if multiple cameras are

connected.

- **Menu Navigation:** Use the 'MENU' button to access settings. Navigate with arrow buttons and confirm with 'OK' or 'MODE'.

5.2 Image Adjustment

The monitor allows for adjustments such as brightness, contrast, color, and mirror/normal image orientation. Access these settings via the 'MENU' button.

- **Mirror/Normal Image:** This feature allows you to flip the camera image horizontally, useful for front-facing cameras or specific viewing preferences.
- **Auto Dimming:** The monitor automatically adjusts its brightness. No manual adjustment is typically needed for this feature.

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Video 5.2.1: Official product video demonstrating the DALLUX Truck Backup Camera System, including unboxing, night vision, waterproofing, and trigger backup camera functionality.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the monitor screen and camera lens. Avoid abrasive cleaners or solvents.
- **Cable Inspection:** Periodically check all cables and connections for wear, damage, or loose fittings. Ensure waterproof seals are intact.
- **Lens Care:** For optimal performance in wet conditions, consider applying a water-repellent coating (e.g., Rain-X) to the camera lens.

7. Troubleshooting

Problem	Possible Cause	Solution
No image on monitor	Loose cable connection, no power to monitor/camera, faulty camera/monitor.	Check all 4-pin connections. Verify power supply to the monitor and camera. Test with another camera/monitor if available.
Image is distorted or flickering	Poor cable connection, electromagnetic interference, damaged cable.	Ensure connections are tight. Reroute cables away from strong electrical sources. Inspect cable for damage.
Night vision not working	IR LEDs are off, insufficient power.	Ensure camera is receiving adequate power. IR LEDs should activate automatically in low light.
Monitor power cycles on/off repeatedly	Unstable power supply, internal fault.	Check vehicle's power source for stability. Ensure proper voltage (12V/24V). If problem persists, contact support.
Camera lens is foggy/obscured	Condensation, dirt, water droplets.	Clean the lens. Apply a water-repellent coating. Ensure proper sealing if condensation is internal.

8. Specifications

Feature	Specification
Model Number	RCS7002
Monitor Screen Size	7 Inches

Feature	Specification
Monitor Display Technology	LCD
Camera Optical Sensor Technology	CCD
Camera Resolution	800 TVL (976x494 pixels)
Camera Viewing Angle	130 Degrees
Camera Night Vision	18 IR Lights, up to 50ft
Camera Waterproof Rating	IP69K
Operating Voltage	12V-24V
Connector Type	4 Pin Aviation Connector
Product Dimensions (Monitor)	7.09 x 0.98 x 6.69 inches (approx.)
Product Dimensions (Camera)	2.36 x 1.57 x 2.36 inches (approx.)
Item Weight	4.97 pounds (total package)

9. Warranty & Support

DALLUX products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase documentation or visit the official DALLUX website. Keep your purchase receipt as proof of purchase for warranty claims.

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