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DENSO DC-DR651

DENSO i-Safe Simple4 DC-DR651 Dash Camera User Manual

Model: DC-DR651 | Brand: DENSO

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1. INTRODUCTION

The DENSO i-Safe Simple4 DC-DR651 is a high-performance dash camera system designed to record driving footage from both the front and rear of your vehicle. Equipped with GPS and advanced safety driving support functions, it provides comprehensive monitoring and assistance for a safer driving experience. This manual provides detailed instructions for installation, operation, and maintenance of your DC-DR651 dash camera.



Figure 1: Overview of the DENSO i-Safe Simple4 DC-DR651 dash camera system, highlighting its dual camera setup, GPS, and key features.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this product to ensure proper operation and prevent damage or injury.

- Do not operate the device while driving. Adjust settings or review footage only when the vehicle is safely parked.

- Ensure the dash camera is installed in a location that does not obstruct the driver's view or interfere with airbag deployment.
- Safety driving support functions are supplementary aids and do not prevent accidents. Always pay attention to actual traffic conditions and drive safely.
- Some functions may not operate correctly if the GPS signal is weak or unavailable.
- Environmental factors such as weather, lighting, and the shape/color of other vehicles may affect the performance of safety support functions.
- Use only the specified power cable and accessories provided with the product.
- Do not disassemble or modify the device. This may void the warranty and cause malfunction.

3. SETUP AND INSTALLATION

3.1. Front Camera Installation

Mount the front camera to the windshield using the adhesive mount. Choose a location that provides a clear view of the road ahead and does not obstruct the driver's line of sight. Ensure the camera lens is centered and level.



Figure 2: Example of front camera installation on the windshield, typically behind the rearview mirror for optimal placement.

3.2. Rear Camera Installation

Install the rear camera on the rear window, ensuring a clear view of the road behind. Use the adhesive mount for secure attachment. Route the communication cable from the rear camera to the main unit.



Figure 3: Example of rear camera installation on the rear window, providing a clear view of the vehicle's rear.

3.3. Wiring and Power Connection

Connect the power cable to the main unit and route it to your vehicle's power outlet (e.g., cigarette lighter socket). Connect the included 5m camera communication cable from the rear camera to the main unit. An optional extension cable can extend the rear camera cable by an additional 3m, for a total of 8m.

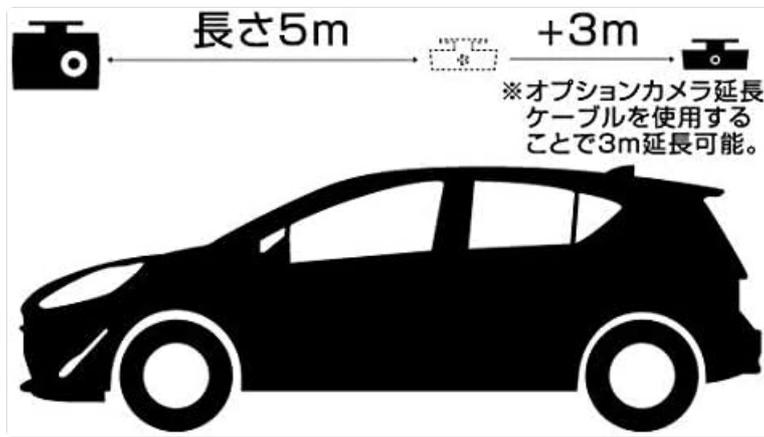


Figure 4: Diagram illustrating the standard 5m rear camera cable and the possibility of extending it by 3m with an optional cable.

3.4. SD Card Insertion

Insert the provided 16GB Class 10 microSDHC card into the designated slot on the main unit. Ensure it is inserted correctly until it clicks into place. The device supports microSDHC cards from 8GB to 32GB, with Class 10 recommended.

4. OPERATING INSTRUCTIONS

4.1. Basic Recording

Once powered on, the dash camera automatically begins continuous recording from both front and rear cameras. The recording status is indicated on the 2.7-inch LCD screen.

4.2. Parking Surveillance Function

This function continues recording even when the vehicle's engine is off. If an impact is detected while parked, the system automatically records footage from both front and rear cameras to capture the event.

4.3. Safety Driving Support Functions

The DC-DR651 includes four safety driving support features:

- **Forward Vehicle Proximity Alert:** Notifies the driver if the vehicle is too close to the car ahead.
- **Drive Support:** Provides general driving assistance.
- **Lane Departure Warning:** Alerts the driver if the vehicle drifts out of its lane.
- **Vehicle Speed Alarm:** Warns the driver if a preset speed limit is exceeded.

Note: These functions rely on GPS signal and environmental conditions. Their effectiveness may vary.

4.4. Record Image Protection Functions

The device incorporates features to protect important recorded footage:

- **Backup Function:** Automatically saves important files.
- **SD Card Check Function:** Monitors the SD card to prevent missed recordings due to card errors.
- **Emergency Recording Stop Function:** Allows manual stopping of emergency recordings.

5. KEY FEATURES

- **Dual Camera Recording:** Simultaneous Full HD (1920x1080) recording from both front and rear cameras.
- **Integrated GPS:** Records location and speed data, essential for accident reconstruction and safety features.

- **Parking Surveillance:** Automatically records impacts when the vehicle is parked and the engine is off.
- **Safety Driving Support:** Includes Forward Vehicle Proximity Alert, Drive Support, Lane Departure Warning, and Vehicle Speed Alarm.
- **WDR/HDR for Night Vision:** Front camera features Wide Dynamic Range (WDR) and High Dynamic Range (HDR) for clear night time recordings.
- **No Periodic Formatting Required:** Advanced file management system reduces the need for frequent manual SD card formatting.
- **LED Signal Light Compatibility:** Designed to record clearly even when facing LED traffic lights, preventing flickering issues.
- **Noise Countermeasures:** Engineered to minimize electromagnetic interference with other in-car electronics like digital terrestrial TV and navigation systems.
- **2.7-inch Full-Color TFT LCD:** Provides a clear display for live view, playback, and settings adjustment.
- **Wide Voltage Compatibility:** Supports both 12V and 24V vehicles.
- **Adhesive Mounting:** Secure and easy installation with adhesive mounts for both cameras.
- **Drive Recorder Sticker Included:** A sticker is provided to inform others that your vehicle is equipped with a dash camera.

6. MAINTENANCE

6.1. Cleaning the Device

Wipe the camera lenses and the main unit's screen with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the surfaces.

6.2. SD Card Care

Although the device features an SD Card Check function and reduces the need for periodic formatting, it is recommended to occasionally back up important files and format the SD card (e.g., once a month) using the device's menu or a computer to maintain optimal performance and prevent data corruption.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose connection.	Check power cable connection to the vehicle's power outlet and the main unit. Ensure the vehicle's ignition is on.
Recording is not starting.	SD card error; SD card full; incorrect settings.	Check if the SD card is inserted correctly. Format the SD card. Check recording settings in the menu.
GPS functions (e.g., speed, safety alerts) are not working.	Weak or no GPS signal.	Ensure the vehicle is in an open area with a clear view of the sky. Avoid areas with tall buildings or tunnels.
Video quality is poor, especially at night.	Dirty lens; extreme lighting conditions.	Clean the camera lenses. Ensure WDR/HDR is enabled for night recording (front camera only).
Interference with other car electronics.	Electromagnetic interference.	The device has noise countermeasures. If interference persists, try repositioning the dash camera or its cables slightly.

8. SPECIFICATIONS

Feature	Detail
Model Name	DC-DR651
LCD Screen Size	2.7-inch Full-Color TFT LCD
Recording Resolution	FullHD (1920x1080) / HD (1280x720) / SD (640x360)
Video Capture Resolution	1080p
Recording Media	microSDHC card (8GB-32GB supported, Class 10 recommended; 16GB Class 10 included)
Compatible Vehicles	12V/24V vehicles
Mounting Type	Adhesive
Front Camera Dimensions (WxHxD)	87mm x 87.5mm x 27mm
Rear Camera Dimensions (WxHxD)	69.5mm x 46.8mm x 17.3mm
Item Weight	620 g
GPS	Integrated
Special Features	Parking Surveillance, Safety Driving Support, WDR/HDR (Front), LED Signal Compatibility, Noise Countermeasures

9. WARRANTY AND SUPPORT

9.1. Product Warranty

The DENSO i-Safe Simple4 DC-DR651 comes with a **3-year product warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please note that consumables (e.g., SD card, adhesive mounts) are excluded from this warranty.

Keep your proof of purchase for warranty claims. For detailed warranty terms and conditions, please refer to the official DENSO documentation or contact customer support.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact DENSO customer support. Contact information can typically be found on the DENSO official website or on the product packaging.

