

COMTEC ZDR025

COMTEC ZDR025 Dual Camera Drive Recorder User Manual

Model: ZDR025

1. INTRODUCTION

The COMTEC ZDR025 is a high-performance dual-camera drive recorder designed to capture both front and rear views of your vehicle in Full HD resolution. Released in December 2019, this device is equipped with advanced features such as STARVIS technology for superior night vision, GPS for accurate location data, and a G-sensor for impact detection. It offers comprehensive recording capabilities, including continuous, impact, and manual recording, along with intelligent safety driving support and parking surveillance functions to enhance your driving experience and provide crucial evidence in unforeseen events.



Image: The COMTEC ZDR025 main unit and rear camera, showcasing their compact design.

2. SETUP

2.1 Package Contents

Before installation, ensure all components are present:

- Main Unit x1
- Rear Camera x1
- Camera Cable (approx. 9.0m) x1
- Main Unit Mounting Stay x1
- Main Unit Mounting Stay Fixing Double-Sided Tape x1
- Rear Camera Fixing Double-Sided Tape x1
- Degreasing Cleaner x1
- 12V Cigarette Plug Cord (approx. 4m) x1
- microSDHC Card (32GB/Class10) x1
- Instruction Manual (with Warranty) x1

2.2 Installation Steps

1. **Prepare the Mounting Surface:** Use the included degreasing cleaner to thoroughly clean the area on your windshield where the main unit will be mounted, and the rear window for the rear camera. Ensure the surface is dry and free of dust.
2. **Mount the Main Unit:** Attach the main unit mounting stay to the main unit. Apply the double-sided tape to the stay and firmly press the main unit onto the cleaned windshield, ideally behind the rearview mirror to avoid obstructing your view.
3. **Mount the Rear Camera:** Attach the rear camera to the rear window using the provided double-sided tape. Position it centrally for optimal rear view recording.
4. **Connect the Cameras:** Connect the rear camera to the main unit using the long camera cable. Route the cable neatly along the vehicle's interior trim to conceal it and prevent interference with driving.
5. **Insert microSD Card:** Insert the included 32GB microSDHC card into the main unit's designated slot.
6. **Power Connection:** Connect the 12V cigarette plug cord to the main unit and then into your vehicle's cigarette lighter socket. For parking surveillance functionality, the separately sold parking surveillance direct wiring cord [HDROP-14] is required for a continuous power supply.
7. **Initial Setup:** Once powered on, follow the on-screen prompts to set the date, time, and other preferences. Ensure GPS reception is active for accurate time and location data.



Image: Examples of the main unit and rear camera installed in a vehicle.

3. OPERATING INSTRUCTIONS

3.1 Basic Recording

The ZDR025 begins recording automatically when the engine is turned ON, thanks to its high-speed startup system. It records both front and rear views in Full HD (2 million pixels).

- **Continuous Recording:** Records continuously from engine ON to OFF. Older data is automatically overwritten when the microSD card capacity is reached.
- **Impact Recording:** The built-in G-sensor detects impacts and automatically saves the relevant footage as protected 'Impact Recording Data'. This prevents it from being overwritten by continuous recording.
- **Manual Recording:** Press the designated button to manually initiate a recording. This footage is also saved as protected 'Manual Recording Data'.



Image: The ZDR025 main unit display during recording, showing Full HD, HDR, and speed information.

3.2 Advanced Recording Features

- **STARVIS Technology:** The rear camera incorporates Sony's STARVIS back-illuminated CMOS sensor,

enabling bright and clear recording even in low-light conditions such as at night or inside tunnels.

- **HDR/WDR Function:** Equipped with High Dynamic Range (HDR) and Wide Dynamic Range (WDR) functions (rear camera supports HDR only), the device records clear images even in scenes with significant brightness differences, such as strong backlighting, whiteouts, or blackouts.
- **LED Traffic Light Compatibility:** Designed to record reliably even with different power frequencies used by LED traffic lights in various regions (Eastern/Western Japan).
- **Recording Image Inversion:** The built-in G-sensor automatically detects the device's orientation and inverts the recorded image, allowing flexible installation on dashboards or other surfaces.

3.3 Safety Driving Support Functions

The ZDR025 includes several features to assist with safe driving:

- **Rear Vehicle Approach Notification:** Detects vehicles approaching from behind and alerts you with voice or alarm. It can also automatically save this event as 'Rear Vehicle Approach Recording Data'.
- **Forward Vehicle Departure Notification:** Alerts you when the vehicle in front starts moving.
- **Front Signal Notification:** Detects and alerts you when the traffic light ahead turns green.
- **Driving Support Function:** Detects sudden acceleration, sudden deceleration, or sudden steering and provides alerts.
- **Vehicle Speed Alarm:** Notifies you if you exceed a preset speed limit.

Note: These safety driving support functions are aids and do not prevent accidents. Always pay attention to actual traffic conditions and drive safely. Some functions require active GPS reception. Performance may vary based on environmental conditions.

3.4 Parking Surveillance Function (Optional)

Requires the separately sold parking surveillance direct wiring cord [HDROP-14].

- **Impact Quick Recording:** Activates upon impact detection while parked, recording images. This mode conserves power for extended surveillance.
- **One-Time Parking Surveillance Mode:** Temporarily activates parking surveillance even if the main function is OFF. Useful for specific situations like parking in unfamiliar areas.
- **Parking Surveillance Mode Pass:** Temporarily disables parking surveillance mode. Useful in environments prone to vibrations (e.g., mechanical parking lots, windy days) to prevent false triggers.
- **Time-Lapse Recording:** Records still images at 1-second intervals and compresses them into a short video, allowing for long-duration parking surveillance. This also applies to normal driving mode.

3.5 Viewing Recorded Data

Recorded images can be viewed directly on the main unit's LCD screen. For detailed analysis, use the dedicated viewer software downloadable from the COMTEC website.

- **Viewer Software:** Allows you to check not only video and audio but also G-sensor information. You can also convert recorded data to video or still images and save them to your computer.

4. MAINTENANCE

- **SD Card Care:** The ZDR025 uses a proprietary file system that significantly reduces SD card fragmentation, minimizing the need for frequent formatting. However, it is still recommended to periodically

check the SD card's health via the device's settings or the viewer software. If the SD card is corrupted, the device's LED display will indicate an abnormality upon startup.

- **Lens Cleaning:** Regularly clean the front and rear camera lenses with a soft, lint-free cloth and a mild lens cleaner. Avoid abrasive materials that could scratch the lens.
- **Device Cleaning:** Wipe the main unit and rear camera body with a dry or slightly damp cloth. Do not use strong chemical cleaners.

5. TROUBLESHOOTING

If you encounter issues with your ZDR025, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Device does not power on.	Check the power connection (cigarette lighter socket or direct wiring). Ensure the vehicle's ignition is ON.
No recording / Missed recordings.	Check if the microSD card is inserted correctly. The SD Card Check Function will alert you via LED if the card is corrupted; replace the card if necessary. Ensure continuous recording is enabled in settings.
GPS-dependent functions (e.g., speed alarm) not working.	Ensure the device has clear line of sight to the sky for GPS reception. Move the vehicle to an open area if necessary.
Images are unclear or distorted (whiteout/blackout).	Ensure HDR/WDR functions are enabled in settings. Clean the camera lenses.
Parking surveillance not activating.	Ensure the optional parking surveillance direct wiring cord [HDROP-14] is correctly installed and connected. Check parking surveillance settings (e.g., impact sensitivity).
Important recorded data is overwritten.	The Emergency Recording Stop Function should prevent this after a large impact. Ensure the microSD card has sufficient free space for protected files. Manually save important footage if needed.

For further assistance, please refer to the detailed troubleshooting section in the full instruction manual or contact COMTEC customer support.

6. SPECIFICATIONS

Feature	Specification
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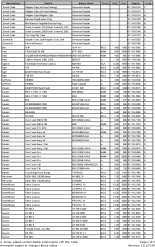
Feature	Specification
Model Name	ZDR025
Screen Size	2.8 inches (LCD)
Color	Black
Image Sensor (Front)	1/2.7 inch CMOS Sensor
Image Sensor (Rear)	1/2.8 inch CMOS Sensor (STARVIS equipped)
Effective Pixels	Max 2 million pixels (Front & Rear)
Lens Angle (Front)	Horizontal 140°, Vertical 72° (Diagonal 172°)
Lens Angle (Rear)	Horizontal 135°, Vertical 71° (Diagonal 167°)
F-Value	F1.8 (Front & Rear)
Lens Material	Glass
Video Resolution	1080p (Full HD)
Connectivity	Wired
Power Supply	12V cigarette plug
Product Dimensions (Main Unit)	9.24 x 3.06 x 5.21 cm
Product Weight	522 g
Included Components	Main unit, Rear camera, Camera cable, Mounting stay, Double-sided tapes, Degreasing cleaner, Cigarette plug cord, 32GB microSDHC card, Instruction manual.

7. WARRANTY AND SUPPORT

The COMTEC ZDR025 comes with a warranty. Please refer to the warranty information provided in the included instruction manual for details on coverage and terms.

For technical support, inquiries, or to download the latest viewer software, please visit the official COMTEC website. Contact information for customer service can also be found in your instruction manual.

Related Documents - ZDR025

	<p>COMTEC ZDR-015</p> <p>COMTEC ZDR-015</p>
	<p>CTI PLA-800 Linear Amplifier and PSL 1000 Power Supply User Manual</p> <p>Comprehensive user manual for the CTI PLA-800 Linear Amplifier and PSL 1000 Power Supply, detailing safety precautions, introduction to components, tuning procedures, power changeover, parts lists, warranty information, and return procedures.</p>
	<p>Swissbit iShield Archive Card Compatibility List</p> <p>This document provides a comprehensive compatibility list for various devices, including dashcams, drones, photo cameras, action cameras, trail cameras, video cameras, and cellphones, with Swissbit iShield Archive Cards. It details the maker, model, and confirms full compatibility for each listed item.</p>
	<p>Cadex C7000ER, C7200, C7400 Adaptor Compatibility Guide</p> <p>Explore the Cadex C7000ER, C7200, and C7400 adaptor compatibility list, featuring a comprehensive breakdown of manufacturers, battery models, and compatible devices for efficient power management.</p>