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- › [COMTEC](#) /
- › [COMTEC Drive Recorder ZDR-014 Full HD GPS Dash Cam User Manual](#)

## COMTEC ZDR-014

# COMTEC Drive Recorder ZDR-014 User Manual

Model: ZDR-014 | Brand: COMTEC

[Overview](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

## 1. PRODUCT OVERVIEW

The COMTEC ZDR-014 is a Full HD drive recorder equipped with GPS, designed to capture clear video footage of your journeys. It features continuous recording, impact-triggered recording, and manual recording functions to ensure critical moments are captured. Advanced features like HDR/WDR, night vision, and time-lapse recording enhance video quality and recording duration. The device also includes robust file protection and an SD card check function for data integrity.



Image: The COMTEC ZDR-014 Drive Recorder mounted on a car windshield, providing a clear view of the road ahead.

## 2. SETUP AND INSTALLATION

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### 2.1 Package Contents

- Main Unit x 1
- Mounting Bracket x 1
- Double-sided Tape for Bracket Fixing x 1
- Hex Wrench for Angle Adjustment x 1
- Degreasing Cleaner x 1
- Cigar Plug Power Cord x 1
- microSDHC Card (8GB) x 1
- Instruction Manual (with Warranty) x 1

### 2.2 Mounting the Device

The ZDR-014 can be mounted on your car's windshield or dashboard. The built-in G-sensor automatically detects the device's orientation and inverts the recorded image accordingly.

- 1. Choose a Location:** Select a position on the windshield or dashboard that does not obstruct the driver's view and allows for a clear recording angle.
- 2. Clean the Surface:** Use the provided degreasing cleaner to thoroughly clean the mounting surface. Ensure it is dry before proceeding.
- 3. Attach the Bracket:** Apply the double-sided tape to the mounting bracket and firmly press the bracket onto the chosen surface. Hold for a few seconds to ensure adhesion.
- 4. Attach the Main Unit:** Slide the main unit onto the mounting bracket until it clicks into place.
- 5. Adjust the Angle:** Use the hex wrench to adjust the recording angle of the camera for optimal coverage.



Image: The COMTEC ZDR-014 mounted on a car windshield, displaying its screen and accessible controls.

## 2.3 Power Connection

Connect the provided cigar plug power cord to the drive recorder and then to your vehicle's cigar lighter socket. Ensure the connection is secure. For parking surveillance functionality, the optional HDROP-09 direct wiring cord is required.

## 2.4 microSDHC Card Insertion

Insert the included 8GB microSDHC card into the designated slot on the device. Ensure it is inserted correctly until it clicks. The device supports 4GB to 32GB Class 10 microSDHC cards.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Basic Recording Functions

The ZDR-014 offers three primary recording modes:

- **Continuous Recording:** The device automatically starts recording when the engine is turned ON (within approximately 1 second) and continues until the engine is turned OFF. Older footage is automatically overwritten when the recording limit is reached (default setting).
- **Impact Recording:** The built-in G-sensor detects impacts. When an impact is detected, the device automatically saves the current, previous, or next file as protected impact recording data.
- **Manual Recording:** Press the designated switch on the device to manually initiate recording at any desired time. This footage is also saved as protected data.

### 3.2 Parking Surveillance Function (Optional)

To enable parking surveillance, connect the separately sold optional parking surveillance/direct wiring cord (HDROP-09). This function allows the device to:

- Detect impacts and record front and rear images even while parked.
- Perform continuous recording during parking.
- Save parking surveillance footage to a dedicated folder for easy identification.

**Note:** Recording time may vary based on device settings and microSDHC card capacity. If the vehicle battery voltage drops below a set level during parking surveillance (within 30 minutes/1 hour/3 hours/6 hours/9 hours/12 hours), the device will automatically stop operation to protect the battery.

### 3.3 Advanced Recording Features

- **Night Vision:** Records relatively bright images even in low-light night parking situations. However, recording may not be bright in situations with absolutely no ambient light.
- **Time-Lapse Recording:** Compresses still images recorded once per second into a short video, enabling longer recording durations.
- **HDR/WDR:** High Dynamic Range (HDR) and Wide Dynamic Range (WDR) functions ensure clear images by minimizing overexposure (whiteout) and underexposure (blackout), even in strong backlight or scenes with significant brightness differences.
- **LED Traffic Light Compatibility:** The device reliably records even with different power frequencies in Eastern and Western Japan, ensuring LED traffic lights are captured correctly.

### 3.4 Emergency Recording Stop Function

In the event of a significant impact (e.g., an accident), the device automatically stops recording. This prevents important footage from being unintentionally overwritten if the device is turned ON after moving the vehicle or during repairs. The impact detection sensitivity can be adjusted in 11 levels, including OFF.

### 3.5 Drive Support Function

The device can detect and notify you of sudden acceleration, sudden deceleration, and sudden steering maneuvers, promoting safer driving habits.

## 4. MAINTENANCE

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## 4.1 microSDHC Card Management

- **Reduced Formatting:** The ZDR-014 uses a dedicated file system that significantly reduces SD card fragmentation compared to standard file systems (like FAT). This means you will need to format the microSDHC card less frequently.
- **SD Card Check Function:** Upon startup, the device checks the microSDHC card for damage. If damage is detected, an LED indicator will alert you, preventing missed recordings due to a faulty card.
- **File Protection:** The dedicated file system is designed to minimize data corruption and maximize recovery chances even if power is suddenly cut off during an accident, protecting critical recorded data.

While the device reduces the need for frequent formatting, it is still recommended to periodically back up important footage and format the card to maintain optimal performance.

## 4.2 Cleaning the Device

Use a soft, dry cloth to clean the device's exterior and lens. Avoid using abrasive cleaners or solvents, as they may damage the unit.

# 5. TROUBLESHOOTING

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## 5.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose connection.	Check power cord connection to the device and cigar lighter. Ensure vehicle power is ON.
No recording.	microSDHC card issue; card full; incorrect settings.	Check microSDHC card for damage (LED indicator). Format the card. Verify recording settings.
Poor video quality at night.	Extremely low ambient light.	While night vision improves low-light recording, extremely dark environments may still result in limited visibility. Ensure the lens is clean.
GPS not acquiring signal.	Obstructed view of sky; device interference.	Ensure the device has a clear view of the sky. Move away from other electronic devices that might cause interference.
Parking surveillance not working.	Optional cord not connected; low car battery voltage.	Ensure HDROP-09 is correctly installed. Check vehicle battery voltage.

## 5.2 SD Card Error Indication

If the microSDHC card is damaged, the device's LED indicator will signal an abnormality upon startup. If this occurs, replace the microSDHC card with a new one.

# 6. SPECIFICATIONS

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## 6.1 Camera Specifications

- **Imaging Sensor:** 1/3-inch CMOS sensor
- **Effective Pixels:** Max 2 million pixels
- **Lens Angle:** Horizontal 120°, Vertical 63° (Diagonal 145°)
- **F-value:** 1.8
- **Lens Material:** Glass
- **Minimum Illuminance:** 2 LUX

## 6.2 Product Specifications

- **Power Voltage:** DC12V
- **Max Current Consumption:** 400mA or less
- **Operating Temperature Range:** -10°C to 60°C
- **Frame Rate:** 29.1 / 19.1 / 9.1 fps (LED signal compatible)
- **GPS:** Included
- **Recording Media:** microSDHC card (8GB Class 10 included, supports 4GB-32GB Class 10)
- **G-sensor:** Included (Adjustable from 0.1G to 1.0G in 0.1G increments)
- **Main Unit Size:** 58(W) × 57(H) × 27(D) mm
- **Main Unit Weight:** 89g
- **Resolution:** 1920x1080 (Full HD)
- **Screen Size:** 2.3 inches
- **Noise Countermeasures:** Implemented to prevent interference with digital terrestrial broadcasting and GPS reception.
- **Other Functions:** Audio recording, Date/time information recording, Drive support function (sudden acceleration/deceleration/steering detection).

## 7. WARRANTY AND SUPPORT

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### 7.1 Product Warranty

The COMTEC ZDR-014 comes with a **1-year product warranty** from the date of purchase. This warranty covers manufacturing defects but excludes consumables (e.g., microSDHC card, double-sided tape).

### 7.2 Viewer Software

A dedicated viewer software is available for download from the COMTEC official website. This software allows you to review recorded data on your computer, including video, audio, and G-sensor information. You can also convert recorded data into video or still images and save them to your computer.

エンジンONで  
高速録画!  
約1秒

GPS搭載 高性能ドライブレコーダー  
**ZDR-014** 録画 200万画素  
Full HD

新たに開発した高速起動システムでエンジンON直後から録画を開始するため、車の乗り出し映像も撮り逃さない!

オプション(HDROP-09)  
駐車監視機能  
最大12時間録画可能!

HDR/WDRで夜間映像が綺麗!  
白とびや黒つぶれ、逆光にも強い!  
高画質でナンバーまでくっきり!  
走行状況や環境により認識できない場合があります。

全国のLED信号に対応  
東日本/西日本の異なる周波数でもしっかり録画!

駐車中も常時録画!  
衝撃を検出し、前後の映像を記録することもできます。  
オプション駐車監視直接記録コード(HDROP-09)が必要です。  
※本体の設定やmicroSDHCカードの容量により上書きされる場合があります。

製品  
1年保証  
2.3インチ  
液晶  
ノイズ  
対策済  
GPS  
搭載  
HDR  
WDR  
搭載  
LED  
信号機対応  
駐車  
監視  
(オプション)  
録画  
200万  
画素  
Gセンサー  
搭載  
録画・録音  
常時録画  
エンジンON/OFFに連動  
衝撃録画  
Gセンサー搭載  
マニュアル録画  
録画スイッチ  
音声録音  
ON/OFF可  
再生  
本体  
テレビ/パソコン

Image: Key features of the COMTEC ZDR-014, including Full HD recording, GPS, and rapid startup.

### 7.3 Customer Support

For further assistance, technical support, or warranty claims, please refer to the contact information provided in your product's warranty card or visit the official COMTEC website.