

COMTEC ZDR-013

COMTEC ZDR-013 Drive Recorder Instruction Manual

Model: ZDR-013 | Brand: COMTEC

INTRODUCTION

The COMTEC ZDR-013 is a high-performance drive recorder designed to capture clear, high-definition video of your journeys. Featuring 2 million pixels for Full HD recording, high-speed startup, and advanced recording functions, it provides reliable evidence in case of incidents. This device also offers unique intercommunication capabilities with compatible COMTEC radar detectors, enhancing its functionality and ease of use. This manual will guide you through the installation, operation, and maintenance of your ZDR-013 drive recorder.

COMTEC

約1秒 超コンパクト
高速録画ドライブレコーダー

新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!

レーダー探知機
相互通信対応機種
ドライブレコーダー

録画 200万画素
Full HD

高性能ドライブレコーダー
ZDR-013

NEW! レーダー探知機と繋がる!
相互通信対応!
レーダー探知機で操作、撮影した映像の確認が可能。GPS情報なども取得することができます。
※相互通信対応レーダー探知機と接続した場合のみ

オプション
駐車監視機能
最大12時間録画可能!
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・直接記録モード」[HDR02.09]が必要です。
※本体の設定やmicroSDHCカードの容量により書き込まれる場合があります。

HDRで白とびなし
白とびや黒つぶれ、逆光にも強い!

全国のLED信号機に対応
東日本/西日本の異なる周波数でもしっかり録画!

夜間でも明るく撮影
1/3インチイメージセンサー搭載!

製品 1年保証	ノイズ 対策済	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 テレビ/ パソコン
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※商品写真および画像はイメージです。撮影、印刷インキで実際の製品とは異なる場合があります。

KEY FEATURES

- **Intercommunication with Radar Detectors:** Connects with compatible COMTEC radar detectors (e.g., ZERO702V, ZERO802V, ZERO802M) to enable operation and image confirmation directly from the radar detector's screen. It also acquires GPS information from the radar detector for accurate speed and position data.
- **Parking Surveillance Function:** With the optional HDROP-09 parking surveillance/direct wiring cord, the device can detect impacts while parked and record video before and after the event. Continuous parking recording is also supported, with footage saved to a dedicated folder.
- **High-Speed Recording:** Recording begins approximately 1 second after the engine is turned ON, ensuring that crucial moments from the start of your drive are captured.
- **HDR/WDR for Enhanced Image Quality:** High Dynamic Range (HDR) and Wide Dynamic Range (WDR) functions ensure clear recording in various lighting conditions, including strong backlight, bright sunlight, and low-light environments, preventing overexposure and underexposure.
- **2 Million Pixel Full HD Recording:** Captures high-resolution 1080p video, providing clear and detailed images for accident analysis or general driving records.
- **Bright Night Recording:** Equipped with a large 1/3-inch CMOS image sensor, the ZDR-013 records brighter and clearer images even in low-light night conditions.
- **Nationwide LED Traffic Signal Compatibility:** Designed to record correctly regardless of the power frequency differences between East and West Japan, ensuring traffic signals are captured without flickering.
- **Three Reliable Recording Modes:**
 - **Constant Recording:** Automatically records from engine ON to OFF.
 - **Impact Recording:** Utilizes a built-in G-sensor to automatically save footage when an impact is detected.
 - **Manual Recording:** Allows users to manually initiate recording at any desired moment by pressing a button.
- **Reliable Data Protection:** Features a dedicated file system that minimizes data corruption during sudden power loss and an SD card check function to alert users of card damage, preventing missed recordings. An emergency recording stop function prevents overwriting critical accident footage.
- **Noise Countermeasures:** Engineered to minimize interference with terrestrial digital broadcasting and car navigation GPS signals.
- **Recorded Image Flip Function:** The G-sensor automatically detects the device's orientation and flips the recorded image, allowing for flexible installation on dashboards or windshields.

SETUP

Package Contents

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

Installation Location

Choose an installation location on your windshield or dashboard that does not obstruct the driver's view or interfere with airbag deployment. Ensure the camera has a clear view of the road ahead. For optimal performance, avoid placing it near other electronic devices that might cause interference.



Image: The COMTEC ZDR-013 Drive Recorder mounted on the inside of a car's windshield, positioned to capture the road ahead without obstructing the driver's view.

Mounting the Device

1. Clean the chosen installation area thoroughly with the provided degreasing cleaner.
2. Attach the double-sided tape to the mounting bracket.
3. Securely attach the mounting bracket to the cleaned surface.
4. Slide the ZDR-013 main unit onto the mounting bracket until it clicks into place.
5. Adjust the camera angle using the hex wrench to ensure a level and clear view.

Power Connection

Connect the included cigarette plug cord to the drive recorder and then to your vehicle's cigarette lighter socket. For intercommunication with a compatible COMTEC radar detector, use the dedicated intercommunication cable (sold separately) to connect the ZDR-013 to the radar detector. This allows the radar detector to supply power and share GPS information.

Note: In some idling stop vehicles, the main unit may restart when the engine restarts. If this occurs, use the included cigarette plug cord for power.

microSDHC Card Insertion

Insert the provided 8GB microSDHC card (Class 10 recommended, supports 4GB to 32GB) into the card slot on the device.

Ensure it is inserted correctly until it clicks into place.

OPERATING INSTRUCTIONS

Power On/Off

The ZDR-013 automatically powers on and begins recording when the vehicle's engine is started. It powers off automatically when the engine is turned off.

Recording Modes

- **Constant Recording:** This is the default recording mode. The device continuously records video from the moment the engine is turned on until it is turned off. Older files are automatically overwritten when the storage limit is reached.
- **Impact Recording:** The built-in G-sensor detects sudden impacts (e.g., collisions, hard braking) and automatically saves the corresponding video segment (before and after the event) to a protected folder, preventing it from being overwritten. Impact sensitivity can be adjusted (OFF and 4 levels).
- **Manual Recording:** Press the designated button on the device to manually initiate a recording segment. This segment will also be saved to a protected folder.



Image: The top view of the COMTEC ZDR-013 Drive Recorder, displaying its control buttons for functions such as manual recording, volume adjustment, and microphone control.

Parking Surveillance (Optional)

To use the parking surveillance function, the optional HDROP-09 direct wiring cord is required. Once installed, the device will monitor for impacts while the vehicle is parked. Upon detection, it records a video segment and saves it to a dedicated parking surveillance folder. Continuous parking recording is also available.

Viewing Recorded Footage

Recorded footage can be viewed in several ways:

- **Via Compatible Radar Detector:** If connected to a compatible COMTEC radar detector, you can view images and adjust settings directly on the radar detector's screen.
- **Using Dedicated Viewer Software:** Download the dedicated viewer software from the COMTEC homepage to your PC. This software allows you to view video, audio, and G-sensor data, as well as convert footage to video or still images.
- **Directly on PC:** Insert the microSDHC card into a card reader connected to your PC to access the recorded files.

MAINTENANCE

SD Card Management

- **SD Card Check Function:** The ZDR-013 automatically checks the microSDHC card for damage upon startup. An LED indicator will notify you if an abnormality is detected, preventing recording failures.
- **Reduced Periodic Formatting:** The device uses a specialized file system that significantly reduces fragmentation compared to standard PC file systems. This means the frequency of needing to format the SD card is greatly reduced. However, occasional formatting is still recommended to maintain optimal performance and extend the card's lifespan.
- **File Protection Function:** The dedicated file system is designed to minimize data corruption even if power is suddenly cut off, increasing the chances of recovering important data.

Cleaning

Gently wipe the camera lens and the device body with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as they may damage the unit.

TROUBLESHOOTING

- **Device does not power on:** Check the power connection. Ensure the cigarette plug cord is securely inserted into both the device and the vehicle's power socket. If using a radar detector for power, ensure the intercommunication cable is properly connected and the radar detector is powered on.
- **No recording or recording errors:**
 - Check if the microSDHC card is inserted correctly.
 - Ensure the microSDHC card is not full. If it is, old files will be overwritten, but if protected files fill the card, recording may stop.
 - If the SD card check LED indicates an error, the card may be damaged. Try formatting the card or replacing it with a new one (Class 10, 4GB-32GB recommended).
- **Poor image quality (blurry, whiteout, black crush):**
 - Ensure the camera lens is clean and free from dirt or smudges.
 - Verify that the HDR/WDR functions are enabled in the settings (if adjustable via radar detector or viewer software).
 - Adjust the camera angle to avoid direct sunlight or strong reflections.
- **GPS information not acquired (when connected to radar detector):** Ensure the intercommunication cable is securely connected between the ZDR-013 and the radar detector. Confirm that the radar detector itself is receiving GPS signals.
- **Interference with other devices (e.g., terrestrial digital TV, car navigation GPS):** While the ZDR-013 has noise countermeasures, some interference may occur depending on the installation environment. Try repositioning the drive recorder further away from sensitive electronic devices.

- **Emergency Recording Stop Function:** If a severe impact is detected, recording will automatically stop to protect the footage. This is a safety feature to prevent overwriting.

SPECIFICATIONS

ZDR-013機能一覧

記録サイズ	—
GPS	—
Gセンサー	○ (ON/OFF調整可: 0.1G～1.0Gまで0.1G単位で設定可)
LED信号機対応	○
WDR / HDR機能	○
駐車監視機能	オプション (HDROP-09「駐車監視」直接配線コードが必要)
ノイズ対策	○
レーダー検知相互識別対応	○
録画サイズ	FullHD (1920×1080) / HD (1280×720) / SD (640×360)
フレームレート	9.1fps / 19.1fps / 29.1fps ※LED信号機が消灯状態で記録されないようにフレームレートを調整済み
画質	高画質 / 低画質の2種類から選択可能
記録方式	常時録画 / イベント録画 (衝撃録画 / マニュアル録画 / 手動録画)
音声録音	ON / OFF可能
映像ファイル形式	MOV (MPEG-4 AVC / H.264)
録画ファイル構成	1ファイル30秒単位
記録映像再生方法	○専用ビューワソフト (弊社HPよりダウンロード) ※Windows7 / 8.1専用 ○ビデオ出力
記録媒体	microSDHCカード (付属: 8GB / class10) ※4GB～32GB対応 class10推奨

安心機能

SDカード	○ 起動時にSDカードをチェックし、破損している場合にお知らせします
チェック機能	○ 事故などの大きな衝撃を受けた際により書き込まないように自動で録画を停止します。ON/OFF調整可
緊急録画	○ 事故などで電流が切断しても、専用システムによりファイルの破損を防ぎ、記録した映像を保護します
停止機能	○ (3段階に調整可能)

カメラ機能調整

液晶の明るさ調整	—
録画中の液晶表示	—
カレンダー / 簡易表示	—
液晶反転機能	—
日時情報の記録	○
ドライブサポート機能	○ (急加速や急減速、急ハンドルを検出しお知らせします)
おまかせ設定機能	○ 録画サイズやフレームレートの設定を一括で簡単に設定変更可能

かんたんスイッチ

取付け	ルームミラー裏 ダッシュボード
対応車種	12V車
製品保証期間	1年 (消耗品は除く)

記録時間の目安

8GB (付属)	※100分～約260分 ※初期設定: 約150分
16GB	※200分～約530分
32GB	※400分～約1070分

※初期設定: 録画サイズ [HD]、フレームレート [19.1fps] / 画質 [画質良]
※録画サイズやフレームレート、画質の設定により記録時間は異なります。
※上記の記録時間はあくまで参考値です。映像の明るさにより記録時間は異なります。

製品仕様

電源電圧	DC12V
最大消費電流	250mA以下
動作温度範囲	-10℃～60℃
カメラ	1/3型 CMOSセンサー
撮像素子	400万画素
有効画素数	最大280万画素
レンズ角度	水平120° 垂直63° (対角145°)
F1.8	
レンズ材質	ガラス
最低照度	2LUX
液晶サイズ	—
液晶解像度	—
本体サイズ (突起除く)	79 (W) ×42.6 (H) ×30.1 (D) / mm
取付ステー装着時	79 (W) ×63 (H) ×30.1 (D) / mm
重量 (取付ステー含む)	72g

Image: A detailed table outlining the technical specifications of the COMTEC ZDR-013 Drive Recorder, including camera, recording, and general product details.

Category	Specification
Brand	COMTEC
Model Name	ZDR-013
Product Dimensions (D x W x H)	30.1 x 79 x 42.6 mm
Product Weight	72 g
Image Sensor	1/3 inch CMOS Sensor
Effective Pixels	Max 2 Million Pixels
Lens Angle (Horizontal / Vertical / Diagonal)	120° / 63° / 145°
F-Value	F1.8
Lens Material	Glass
Minimum Illumination	2 LUX
Power Voltage	DC12V
Maximum Current Consumption	Less than 250mA
Operating Temperature Range	-10°C to 60°C
Frame Rate	29.1 / 19.1 / 9.1 fps (LED signal compatible)
GPS	None (GPS information acquired via compatible radar detector)
Recording Media	microSDHC card (8GB Class 10 included, supports 4GB-32GB)
G-Sensor	Yes (0.1G to 1.0G, adjustable in 0.1G increments)
Video Capture Resolution	1080p
Mounting Type	Adhesive
Display Type	LCD (via compatible radar detector)

Category	Specification
Battery Included	No

WARRANTY

The COMTEC ZDR-013 Drive Recorder comes with a **1-year product warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please note that consumables (such as the microSDHC card) are typically not covered under this warranty. Retain your proof of purchase for warranty claims.

SUPPORT

For further assistance, software downloads, and detailed product information, please visit the official COMTEC website. The dedicated viewer software for PC is available for download from the COMTEC homepage, allowing you to analyze recorded data comprehensively.

For technical support or inquiries regarding your ZDR-013, please refer to the contact information provided in the warranty section of your instruction manual or on the official COMTEC website.