

COMTEC ZDR016

COMTEC ZDR016 Dual Camera Full HD GPS Drive Recorder Instruction Manual

Model: ZDR016 | Brand: COMTEC

1. INTRODUCTION AND OVERVIEW

The COMTEC ZDR016 is a dual-camera drive recorder designed to capture both front and rear views in Full HD (2-megapixel) resolution. This device records continuously during driving and can also provide parking surveillance. Recorded footage can be reviewed on the main unit's LCD screen or transferred to a computer for detailed analysis.



Image: The main COMTEC ZDR016 unit, showing both the front and rear camera components.

2つのカメラで前後を記録



2つのカメラにより前方と後方を前後同時録画。
録画した映像は本体の液晶画面、パソコンで確認することができます。

Image: A diagram illustrating the wide-angle coverage of the front camera (140 degrees diagonal) and the rear camera (145 degrees diagonal) when installed in a vehicle.

2. SETUP AND INSTALLATION

The COMTEC ZDR016 is designed for adhesive mounting. For parking surveillance functionality, an optional direct wiring cord (model HDROP-14) is required. Ensure proper cable routing to avoid interference with vehicle operations and to maintain a clear field of view.

3. OPERATING INSTRUCTIONS

Recording Modes

- **Constant Recording:** Records continuously from the moment the engine is turned ON until it is turned OFF. The recording duration is dependent on the selected recording size, frame rate, and image quality settings. When the storage capacity is full, the oldest files are automatically overwritten by default.
- **Impact Recording:** Utilizes a built-in G-sensor to detect impacts. Upon detection, the device automatically saves the current recording segment, along with the preceding and following segments, as protected impact recording data. Oldest impact files may be overwritten if the dedicated storage limit is reached.

- **Manual Recording:** Allows users to manually initiate a recording by pressing a designated switch. This function saves the current recording segment, as well as the preceding and following segments, as protected manual recording data. Oldest manual files may be overwritten if the dedicated storage limit is reached.
- **Time-Lapse Recording:** This mode compresses still images captured every second into a short video, enabling extended recording periods. This feature is available during both driving and parking surveillance, making it easier to review long periods of footage efficiently.

Safety Driving Support Functions

The ZDR016 includes several features designed to assist with safe driving:

- **Rear Vehicle Approach Alert:** Detects vehicles approaching from behind and provides an audible or alarm notification. This function can also automatically save the event as "Rear Vehicle Approach Recording Data."
- **Forward Vehicle Start Alert:** Notifies the driver when the vehicle ahead begins to move.
- **Front Traffic Light Alert:** Alerts the driver when a traffic light ahead turns green.
- **Drive Support Function:** Provides alerts for sudden acceleration, rapid deceleration, or sharp steering maneuvers.
- **Vehicle Speed Alarm:** Notifies the driver if a pre-set speed limit is exceeded.

Important Note: These safety driving support functions are assistive features and are not designed to prevent accidents. Always maintain awareness of actual traffic conditions and drive safely. Some functions require active GPS reception to operate correctly. Performance may vary depending on environmental conditions, weather, the shape and color of the vehicle ahead, and the installation position of the main unit.

後続車の接近をお知らせ



Image: A visual representation of the rear vehicle approach alert system, showing a vehicle approaching from behind and the dashcam unit displaying an alert.

Parking Surveillance Function

This function requires the optional direct wiring cord (HDROP-14). It detects impacts while the vehicle is parked and records both front and rear images. Continuous recording is also an option. Recorded parking surveillance footage is saved to a dedicated folder for easy review.

- **Impact Quick Recording:** This mode activates only when an impact is detected, recording the event. By remaining inactive during normal parking, it conserves power, allowing for extended parking surveillance periods.
- **One-Time Parking Surveillance Mode:** Allows temporary activation of parking surveillance even if the feature is usually disabled. Useful for specific situations or locations.
- **Parking Surveillance Mode Pass Function:** Temporarily disables parking surveillance in environments prone to false triggers, such as mechanical parking lots or during strong winds.

Note: Depending on the main unit's settings and the capacity of the microSDHC card, older parking surveillance images may be overwritten.



Image: A graphic detailing the parking surveillance features, including impact quick recording and time-lapse recording, showing how the system detects and records events while parked.

Image Quality Features

- **High-Speed Start Recording:** A newly developed system ensures recording begins immediately after the engine is turned ON, capturing footage from the very start of your drive.
- **HDR/WDR for Clear Night Images:** Equipped with High Dynamic Range (HDR) and Wide Dynamic Range (WDR) functions, the front camera corrects for overexposed bright areas and underexposed dark areas, providing clear images even in challenging lighting conditions like backlighting or tunnels. (Note: Rear camera does not feature HDR/WDR).
- **2-Megapixel High-Quality Images:** Records vivid, high-quality images. This is crucial for clarifying accident causes and facilitating smooth incident resolution. It also allows for enjoyable review of driving memories.
- **Bright Night Shooting:** Features a 1/2.7-inch image sensor. The enlarged image sensor captures clearer images and significantly improves brightness during night recordings.
- **Compatible with LED Traffic Lights Nationwide:** Ensures reliable recording even with the varying power frequencies used for LED traffic lights in different regions of Japan.

HDR・WDRで夜間映像もキレイ



画像補正のHDR機能を搭載。夜間でもキレイに記録できるだけでなく、白とびや黒つぶれ、逆光にも強い為、トンネルでの明暗さなどもしっかり補正し、キレイな映像を記録します。(フロントカメラのみ)

Image: A comparison showing the effectiveness of HDR/WDR technology in night recording, with a clearer image on the right (HDR/WDR enabled) compared to the left (HDR/WDR disabled).

4. MAINTENANCE

SD Card Management

- **No Regular Formatting Required:** The ZDR016 utilizes a proprietary file system that significantly reduces file fragmentation on the SD card, minimizing the need for frequent manual formatting.
- **SD Card Check Function:** Upon startup, the device checks the microSDHC card for damage. If damage is detected, an LED indicator will alert you, helping to prevent missed recordings due to card issues.

Data Protection Features

- **Backup Function:** The device's dedicated file system is designed to minimize data corruption and maximize recovery rates in cases of sudden power loss (e.g., during an accident). A built-in super capacitor further enhances data protection.
- **Emergency Recording Stop Function:** In the event of a severe impact (e.g., an accident), recording automatically stops. This prevents important footage from being overwritten if the device remains powered on during vehicle movement or repairs after the incident. The impact detection sensitivity can be adjusted across 11 levels, including OFF.

5. TROUBLESHOOTING

If you encounter issues, please refer to the following common solutions:

- **Recording Issues:** Check the microSDHC card for damage via the SD Card Check Function. Ensure sufficient storage space.
- **GPS-Related Functions Not Working:** Ensure the device has a clear view of the sky for GPS signal

reception. Some functions require GPS.

- **Interference with Other Devices:** The ZDR016 includes noise countermeasures to minimize interference with terrestrial digital TV reception and GPS navigation systems (according to COMTEC standards). If interference occurs, try repositioning the device or checking for external sources of interference.
- **Parking Surveillance False Triggers:** Utilize the Parking Surveillance Mode Pass Function in environments with frequent vibrations or impacts. Adjust impact detection sensitivity as needed.

For more detailed troubleshooting, please consult the official COMTEC website or contact customer support.

6. SPECIFICATIONS

Manufacturer	COMTEC
Brand	COMTEC
Product Model Number	ZDR016
Product Dimensions (L x W x H)	7.54 x 3.14 x 5.33 cm
Item Weight	400 g
Color	Black
Position	Front
Special Features	Built-in GPS
Connectivity Technology	Wired
Video Capture Resolution	1440p
Included Components	None
Mounting Type	Adhesive
Field of View	145 degrees
Control Method	App
Batteries	2 Lithium Metal batteries (included)

7. WARRANTY AND SUPPORT

Warranty Information

The COMTEC ZDR016 comes with a **1-year warranty** from the date of purchase. Please note that certain accessories, such as mounting stays, cigarette lighter plug cords, built-in batteries, and microSDHC cards, are considered consumables and are not covered under this warranty.



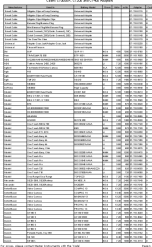
The warranty will be void if there is no verifiable proof of purchase date or if the product is used outside of Japan.

Customer Support

For further assistance, including downloading the dedicated viewer software for your PC, please visit the official COMTEC homepage. The viewer software allows you to review recorded video and audio, as well as

G-sensor data, and convert files for saving.

Related Documents - ZDR016

	<p>COMTEC ZDR-015</p> <p>COMTEC ZDR-015</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>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>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>

