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## COMTEC ZERO 800V

# COMTEC ZERO 800V Radar Detector Instruction Manual

Model: ZERO 800V

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## 1. PRODUCT OVERVIEW

The COMTEC ZERO 800V is a high-performance radar detector designed for automotive use, offering advanced detection capabilities and a user-friendly interface. It features a 4.0-inch wide MVA LCD display, motion sensor operation, and comprehensive GPS data for various alerts.

### Key Features:

- **Drive Recorder Connectivity:** Equipped with external input and power output terminals. Connects seamlessly with compatible drive recorders using the optional ZR-10 cable.
- **Mobile Small Orb Detection:** Provides alerts for mobile speed cameras, including those in residential areas where traditional installations were not possible. Warnings are displayed with maps and actual images.
- **Roundabout Support:** Alerts drivers to roundabouts (circular intersections without traffic lights or stop signs) to promote safe driving.
- **Zone 30 Support:** Compatible with the new traffic regulation 'Zone 30', which restricts speeds to 30 km/h in residential areas. Provides visual and audio alerts upon entering and displays an icon while driving within the zone.
- **Motion Sensor:** Allows for hands-free operation, such as switching standby screens, adjusting volume, or muting alerts, by simply waving your hand.
- **GracefulLED:** LEDs located at the bottom of the unit can be set to one of five colors to match your car's interior illumination. They can also be linked to vehicle speed or alerts for flashing indications.
- **External Input Function:** Displays video from external devices like backup cameras or DVD players. Also supports audio input. Input switching can be done via motion sensor (video playback mode) or input signal (back monitor mode).
- **GLONASS & Michibiki Reception & Fastest GPS Positioning:** Supports GPS, Michibiki (QZSS),

GLONASS, Himawari, and GAGAN satellites. With 59 receivable satellites, reception accuracy and speed are significantly improved.

- **OBD2 Connection Support:** Offers 6 display patterns and up to 138 display items (with optional OBD2 adapter). Provides accurate vehicle speed information, preventing loss of vehicle position even in tunnels where GPS signals are lost. (Applicable to compatible vehicle models only; check manufacturer's website for compatibility.)
- **4-Interface Operation:** Enhanced operability with remote control, touch panel, touch switch, and motion sensor. The unit can be operated without the remote control.
- **Basic Performance:** 4.0-inch wide MVA LCD, G-sensor, Gyro sensor, Illumination sensor. Compatible with idling stop vehicles and hybrid cars. Supports Toyota hybrid display. Monthly free GPS data updates. Industry-leading 18 reception bands. Over 39,000 control point data entries.
- **MVA LCD:** Offers significantly clearer display and wider viewing angles compared to TFT LCDs.
- **Illumination Sensor:** Automatically adjusts LCD brightness based on ambient light, reducing glare in tunnels or underground parking.
- **Auto Mode Function:** Automatically distinguishes between general roads and highways to cut down on false alarms and unnecessary GPS alerts.
- **Super High Sensitivity Triple Engine:** Equipped with super high sensitivity GPS, radar, and wireless for accurate reception.
- **Radar Cancel Point Detection:** Automatically identifies locations that generate false radar signals (e.g., automatic doors) and allows you to register them as false alarm points. When passing these registered points again, the alert will be muted.
- **Opposite Lane Radar Cancel Function:** Automatically mutes radar alerts from opposite lanes or H-systems when receiving radar waves.

## 2. SETUP AND INSTALLATION

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### 2.1 Included Accessories

- Remote Control
- Mounting Bracket
- 12V Cigarette Lighter Plug Cord (4m length)
- Double-sided Tape
- Adhesive Sheet
- Sun Visor Clip
- Fastener for Remote Control Fixing
- microSD Card
- Instruction Manual (with Warranty Card)



Figure 2.1: Included accessories such as remote control, mounting bracket, power cord, and various tapes.

## 2.2 Unit Components and Connections

Familiarize yourself with the various ports and switches on the main unit for proper installation and connection.



Figure 2.2: Rear view of the main unit, displaying the DC-OUT, DC-IN, AV-IN ports, and the power switch.



Figure 2.3: A detailed view of the DC-OUT, DC-IN (micro USB), AV-IN (3.5mm jack), and the ON/OFF switch.



Figure 2.4: Location of the microSD card slot on the side of the unit.

### **2.3 Power Connection**

Connect the provided 12V cigarette lighter plug cord to the DC-IN port on the main unit and then to your vehicle's cigarette lighter socket. Ensure the power switch on the unit is in the 'ON' position.

### **2.4 Mounting the Unit**

Use the included mounting bracket and double-sided tape to securely attach the radar detector to your dashboard or windshield, ensuring it does not obstruct your view or interfere with airbag deployment. The sun visor clip can be used for alternative mounting.

### **2.5 Optional Connections**

- **Drive Recorder:** For connecting a compatible drive recorder, use the optional ZR-10 drive recorder connection cable. Connect the cable to the DC-OUT and AV-IN ports on the ZERO 800V and the corresponding ports on the drive recorder.
- **OBD2 Adapter:** For enhanced vehicle information display, connect an optional OBD2 adapter to your vehicle's OBD2 port and the ZERO 800V. Refer to the manufacturer's website for a list of compatible vehicles and adapters.

## ●待機画面表示例



Figure 2.5: Connection diagram illustrating how to link the ZERO 800V with a drive recorder using the optional ZR-10 cable.

## 3. OPERATION

### 3.1 Power On/Off

To power on the unit, ensure it is connected to a 12V power source and the power switch on the side is set to 'ON'. The unit will automatically power on when the vehicle's ignition is turned on. To power off, turn off the vehicle's ignition or set the power switch to 'OFF'.

### 3.2 Interface Controls

The ZERO 800V offers multiple ways to interact with the device:

- **Remote Control:** Use the included remote control for full functionality.
- **Touch Panel:** Directly interact with the 4.0-inch LCD screen.
- **Touch Switch:** Specific areas on the unit may function as touch-sensitive buttons.
- **Motion Sensor:** Wave your hand in front of the unit for quick actions like changing display modes, adjusting volume, or muting alerts.



**PWR**

**MUTE** 

**INFO**

  
**VOL+**

  
**ROAD**



**SET**



**USER  
POINT**

**VOL-**  


**RADAR  
CANCEL**

**COMTEC**  
**RRE-X141**

Figure 3.1: The RRE-X141 remote control, featuring buttons for Power (PWR), Mute, Info, Volume Up/Down, Set, Road, User Point, and Radar Cancel.

### 3.3 Display Modes

The unit offers various standby screen display patterns to suit your preferences:

- Main / Mini Meter
- Main / Bar Graph
- Main / Text
- 3 Mini Meters
- Bar Graph List
- Text List



Figure 3.2: Various standby screen examples, including main display with mini meters, bar graphs, and text, as well as multi-item lists.

### 3.4 Warning Displays

The ZERO 800V provides clear and timely warnings for various road conditions and potential hazards.

## ● 警報表示例

### ■ わかりやすい警報表示

オービス位置を把握し、オービス実写+地図表示でわかりやすく警告します!

**2000m地点**  
実写2画面(小) 約2000m手前  
対象までの距離  
アナウンス ※高速道のみ  
2Km先 高速道 LHシステムがあります。時速は約60キロ。到達時間は〇〇秒以内です。  
LHシステム

**1000m地点**  
実写2画面(小) 1000m手前  
アナウンス  
1Km先 高速道 LHシステムがあります。時速は約60キロです。  
注意の度合いに応じて拡大されます!

**500m地点**  
実写2画面(拡大) 500m手前  
アナウンス  
この先 高速道正面 LHシステムがあります。

**接近**  
実写2画面(拡大) 接近  
アラーム  
アラーム音で警報を行い、その後通過するまで音量を小さく、警報を行います。

対象オービス

### ■ その他警報は待機画面に割込んで警告!

待機画面表示に3Dグラフィック警報が割込んで警報をお知らせします。

待機画面表示 割込警報表示

※3Dグラフィック警報はスタンダード表示とシンプル表示から選択できます。  
スタンダード表示 シンプル表示 スタンダード表示 シンプル表示 スタンダード表示 シンプル表示

最重点取締ポイント 白バイ警戒エリア デジタル無線警報

### ■ OBDII表示のまま警告できるスマート警報表示!

待機画面表示 スマート警報表示

OBDII表示のまま警報ができる!

ループコイル

Figure 3.3: Examples of warning displays, showing distance-based alerts with map overlays and actual images for speed cameras and other systems. Also includes examples of OBD2-linked smart warnings.

## 3.5 Graceful LED Illumination

The GracefulLED feature allows you to customize the unit's ambient lighting. You can select from five colors (blue, red, orange, white, green) to match your vehicle's interior. The LEDs can also be configured to flash in response to alerts or vehicle speed.

車内を優雅に演出する  
*Graceful LED*

LED はブルー / レッド / オレンジ / ホワイト / グリーンから選択可能。また OFF にすることもできます。

Figure 3.4: The ZERO 800V unit displaying its GracefulLED illumination within a car's interior, enhancing the ambiance.

## 4. MAINTENANCE

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### 4.1 GPS Data Updates

To ensure the most accurate and up-to-date warning information, it is recommended to perform monthly free GPS data updates. These updates are available for download from the COMTEC website. Use the included microSD card to transfer the updated data to your ZERO 800V unit.

### 4.2 Cleaning the Unit

To clean the unit, gently wipe the screen and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or alcohol, as these may damage the display or finish. Ensure no liquids enter the ports.

## 5. TROUBLESHOOTING

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### 5.1 Poor GPS Reception or Slow Positioning

- Ensure the unit has a clear view of the sky. Obstructions like tall buildings, tunnels, or dense foliage can interfere with GPS signals.
- Verify that the GPS data is up-to-date. Perform a monthly update if necessary.
- If your vehicle has a radio wave-blocking windshield (common in some luxury cars), consider using an external GPS antenna (sold separately) or a separate-type radar detector.

### 5.2 Frequent False Alarms

- Utilize the **Radar Cancel Point Detection** feature. When you encounter a location with persistent false alarms (e.g., automatic doors at convenience stores), register it as a false alarm point. The unit will mute alerts at this location in the future.
- Ensure **Auto Mode** is enabled. This function helps differentiate between general roads and highways, reducing unnecessary alerts.
- The **Opposite Lane Radar Cancel Function** can help reduce alerts from radar sources in opposing traffic lanes.

### 5.3 Unit Does Not Power On

- Check the power connection. Ensure the cigarette lighter plug is firmly inserted and the vehicle's 12V socket is functioning.
- Verify that the power switch on the side of the ZERO 800V unit is in the 'ON' position.
- If using an optional OBD2 adapter, ensure it is correctly connected and compatible with your vehicle.

### 5.4 Internal Battery Issues (Time/GPS Info Not Retained)

Some users have reported issues with the internal battery not retaining time or GPS information after a few years. If your unit is experiencing this outside of the warranty period, contact COMTEC customer support for repair options.

## 6. SPECIFICATIONS

Feature	Specification
Manufacturer	COMTEC
Brand	COMTEC
Model Name	ZERO 800V
Product Model Number	ZERO 800V
Product Dimensions (L x W x H)	19 x 115 x 64 mm
Product Weight	124 g
Voltage	12 Volts
Power Source	Corded Electric
Display Type	LCD (4.0-inch wide MVA)
Compatible Devices	Camera (e.g., Drive Recorder, Backup Camera)
ASIN	B00TYFIRHU
First Available Date	2015/02/23

## 7. WARRANTY & SUPPORT

### 7.1 Warranty Information

This product comes with a warranty. Please refer to the warranty card included with your instruction manual for detailed terms, conditions, and duration of the warranty period. Keep your proof of purchase for warranty claims.

### 7.2 Customer Support

For further assistance, technical support, or inquiries not covered in this manual, please contact COMTEC customer service. You can find contact information on the official COMTEC website or in the included documentation.

For OBD2 adapter compatibility, please visit the manufacturer's official website to check the latest compatibility chart for your vehicle model.