

## Riloer H847351HXYFAT

# Riloer OBD2 II HUD Digital Speedometer Projector

## USER MANUAL

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### 1. Introduction

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This manual provides detailed instructions for the Riloer OBD2 II Head-Up Display (HUD). This device projects essential driving information directly onto your windshield, allowing you to monitor vehicle data without diverting your gaze from the road. It is designed to enhance driving safety and convenience by displaying speed, RPM, water temperature, and voltage, along with various warning alarms.

### 2. Product Features

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- **Multi-function Display:** Shows speed, RPM, water temperature, and voltage.
- **Alarm Functions:** Includes low voltage alarm, high water temperature alarm, and overspeed alarm.
- **Automatic Operation:** Features auto on/off functionality with vehicle ignition.
- **Wide Compatibility:** Works with most OBDII or EOBD compatible vehicles and trucks.
- **Clear Display:** Multi-color design and nano-technology enhance readability and reduce glare.
- **Easy Installation:** Plug and Play connectivity requires no professional installation.

# Car Head Up Display

Multiple modes, switch at will



Overview of the Riloer Car Head-Up Display, highlighting multiple display modes including Voltage, Speed, Water Temperature, and Mileage.



Diagram illustrating the STM32 chip, emphasizing its quality, compatibility, and intelligent start/automatic light effects.

## 3. Package Contents

Please verify that all items are present in your package:

- Riloer HUD Unit
- HUD Hood/Stand
- OBD-II Connection Cable
- Reflection Film
- 3M Adhesive Stickers
- User Manual



All components included in the package: the HUD unit, its hood, and the OBD cable.



Contents of the Riloer HUD package: HUD unit, hood, OBD line, reflection film, 3M stickers, and manual.

#### 4. Setup and Installation

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The Riloer HUD is designed for simple plug-and-play installation. Ensure your vehicle is OBDII or EUOBD compatible.

1. **Connect the HUD:** Connect the small end of the provided OBD cable to the input port on the Riloeer HUD unit.
2. **Route the Cable:** Carefully route the OBD cable along the dashboard or door seam to conceal it and prevent interference with driving.
3. **Plug into OBD-II Port:** Locate your vehicle's OBD-II diagnostic port (typically under the dashboard on the driver's side) and firmly plug in the other end of the OBD cable.
4. **Position the HUD:** Place the HUD unit on your dashboard. You may use the included anti-slip mat or 3M stickers to secure it. For optimal visibility, apply the reflection film to your windshield directly above the HUD unit.



Three-step installation guide: connecting the OBD cable to the HUD, hiding the cable, and plugging the OBD cable into the

vehicle's OBD interface.



The Riloer OBD2 II Head-Up Display unit and its connecting OBD-II cable.



The Riloer HUD unit connected to its OBD-II cable, ready for installation.



Examples of the HUD display projected onto a car's windshield, showing speed and other data.

# Compatible with Various Models



Illustration demonstrating the Riloer HUD's compatibility with various car models.

# Compatible with Various Models



## 5. Operating Instructions

### 5.1 Power On/Off

The HUD will automatically power on when your vehicle starts and power off when the vehicle is turned off, provided it is correctly connected to the OBD-II port.

### 5.2 Display Functions

The Riloer HUD can display the following information:

- **Speed:** Current driving speed (MPH or KM/H).
- **RPM:** Engine Revolutions Per Minute.
- **Water Temperature:** Engine coolant temperature.
- **Voltage:** Vehicle battery voltage.
- **Travel Mileage:** Distance traveled during the current trip.

The display unit (MPH/KM/H) can typically be switched via a button on the HUD or through its settings menu (refer to the physical manual for specific button functions).

Four display function:

**Speed, Water temperature, Voltage, Travel mileage**

Three alarm functions:

**Overspeed alarm, High temperature, Low voltage alarm**



**A** Water temperature Alarm    **B** Digital Display Area

**C** Voltage Alarm    **D** Unit Symbol

Detailed view of the HUD display, showing indicators for water temperature alarm (A), digital display area (B), voltage alarm (C), and unit symbol (D) for MPH/KM/H.

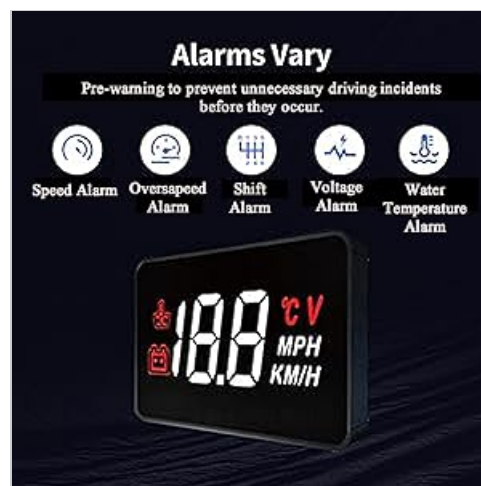
## 6. Alarm Functions

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The HUD includes several alarm functions to alert the driver to potential issues:

- **Overspeed Alarm:** Alerts when the vehicle exceeds a preset speed limit.
- **High Water Temperature Alarm:** Warns if the engine coolant temperature becomes excessively high.
- **Low Voltage Alarm:** Indicates when the vehicle's battery voltage drops below a safe level.
- **Shift Alarm:** (If applicable) Suggests optimal gear shifting points.

These alarms are designed to provide pre-warning to prevent unnecessary driving incidents.



Visual representation of the various alarm functions: Speed Alarm, Overspeed Alarm, Shift Alarm, Voltage Alarm, and Water Temperature Alarm.

## 7. Troubleshooting

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If you encounter issues with your Riloer HUD, please refer to the following common solutions:

- **No Display:** Ensure the OBD-II cable is securely connected to both the HUD unit and the vehicle's OBD-II port. Check if the vehicle's ignition is on.
- **Incorrect Speed Reading:** The HUD may require calibration for your specific vehicle. Refer to the physical manual for instructions on speed calibration.
- **Display Not Clear/Double Image:** Ensure the reflection film is properly applied to the windshield. Adjust the HUD's position or angle for better clarity.
- **HUD Does Not Turn Off:** Verify that the vehicle's ignition is completely off. Some vehicles may supply power to the OBD-II port for a short period after shutdown. If the issue persists, disconnect the HUD when the vehicle is off for extended periods.

## 8. Specifications

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Feature	Detail
Brand	Riloer

Model Number	H847351HXYFAT
Item Weight	6.3 ounces
Package Dimensions	5.71 x 3.54 x 1.97 inches
Display Type	Digital Projector
Connectivity	OBD2 II / EUOBD



Dimensions of the Riloer HUD unit: 8cm (3.15in) length, 4.5cm (1.77in) width, 1.3cm (0.51in) height.



Image showing the compact size of the HUD unit, held in a hand, illustrating its minimalist design.

## 9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official Riloer website. Keep your purchase receipt as proof of purchase for any warranty claims.

