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Tbest CCD HD IP68 Reversing Camera

Tbest CCD HD IP68 Reversing Camera User Manual

Model: CCD HD IP68 Reversing Camera

1. INTRODUCTION

Thank you for choosing the Tbest CCD HD IP68 Reversing Camera. This manual provides detailed instructions for the installation, operation, and maintenance of your new reversing camera system. Please read this manual thoroughly before installation and use to ensure proper function and safety. This camera is designed to enhance your vehicle's safety by providing a clear view of the area behind your car when reversing.

2. PRODUCT OVERVIEW

2.1 Key Features

- **High-Definition CCD Sensor:** Provides clear and sharp images.
- **IP68 Waterproof Rating:** Ensures durability and reliable performance in various weather conditions.
- **170-Degree Wide Angle Lens:** Offers an expansive field of view to minimize blind spots.
- **Night Vision Capability:** Operates effectively in low-light conditions.
- **Integrated License Plate Light Design:** Replaces the original license plate light for a seamless, factory-like installation.
- **Parking Guidelines:** Assists with precise parking maneuvers.
- **Universal RCA Connector:** Compatible with most aftermarket car displays and head units.

2.2 Package Contents

- 1 x Tbest CCD HD Reversing Camera
- 1 x Video Cable (approx. 6 meters / 19.7 feet)
- 1 x Power Cable
- 1 x User Manual (this document)



This image displays the complete set of cables provided with the camera, including the video cable (approximately 6 meters long) and the power cable.

3. SAFETY INFORMATION

Please observe the following safety precautions:

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits or damage.
- Do not obstruct the driver's view or interfere with vehicle controls during installation.
- This camera is an aid for reversing and parking; it does not replace the driver's responsibility to check surroundings manually.
- Consult a professional if you are unsure about any part of the installation process.

4. SETUP AND INSTALLATION

The Tbest Reversing Camera is designed for specific vehicle models, integrating into the license plate light housing. Compatible vehicles include Renault Fluence (2019-2014), Renault Duster (2009-2014), Dacia Duster (2010-2014), Renault Megane 3 (2008-2016), and Nissan Terrano (2010-2014).



The camera unit is shown next to a list detailing compatible vehicle models, including Renault Fluence, Duster, and Megane, and Nissan Terrano.

4.1 Installation Steps

1. **Prepare the Vehicle:** Ensure the vehicle is turned off and the parking brake is engaged. Disconnect the negative terminal of the car battery to prevent electrical shorts.
2. **Remove Original License Plate Light:** Carefully remove the existing license plate light housing from your vehicle's rear. This usually involves unfastening screws or clips.
3. **Install the Camera Unit:** Insert the Tbest reversing camera unit into the vacant license plate light slot. Ensure it fits securely and the camera lens is facing outwards and downwards for optimal viewing angle.
4. **Connect Power:** Connect the camera's power cable (red and black wires) to the vehicle's reverse light power supply. The red wire connects to the positive (+) lead of the reverse light, and the black wire connects to a ground (-) point. This ensures the camera activates automatically when reverse gear is engaged.
5. **Route Video Cable:** Run the video cable (RCA connector) from the camera unit through the vehicle's interior to the location of your car's display screen (e.g., infotainment system, rearview mirror monitor). Ensure the cable is routed safely, away from moving parts or heat sources, and secured to prevent damage.
6. **Connect to Display:** Plug the RCA video cable into the video input port of your car's display unit.
7. **Test the System:** Reconnect the car battery. Turn on the vehicle and engage reverse gear. The camera image should appear on your display screen. Adjust the camera's position slightly if needed to optimize the view.
8. **Secure Wiring:** Once tested and confirmed working, secure all wiring with cable ties or electrical tape to prevent rattling or damage.

can solve the problem of bad car rear view effect.
Also can help parking, to reduce the
occurrence of accidents.



The camera is shown integrated into a vehicle's rear license plate light housing, with the corresponding view on the car's display screen, complete with dynamic parking guidelines.



The camera unit is pictured with its RCA video and power cables. Below, two screens demonstrate the camera's performance in both bright daylight and low-light night conditions.

5. OPERATING INSTRUCTIONS

Once properly installed, the Tbest Reversing Camera operates automatically:

- **Automatic Activation:** When you shift your vehicle into reverse gear, the camera will automatically power on and transmit its video feed to your connected display screen.

- **Parking Guidelines:** The display will show dynamic parking guidelines overlaid on the camera's view, assisting you in judging distances and positioning your vehicle.
- **Wide Angle View:** Utilize the 170-degree wide-angle view to observe obstacles and surroundings that may not be visible in your rearview mirrors.
- **Night Vision:** The camera's low-light capability ensures a clear view even in dark conditions.



This diagram visually represents the camera's 170-degree wide viewing angle, highlighting the broad area it covers behind the vehicle for enhanced safety.



This image displays the Tbest reversing camera unit alongside a car's infotainment screen, illustrating the camera's output with parking guidelines.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Tbest Reversing Camera, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Inspect Wiring:** Occasionally check the wiring for any signs of wear, fraying, or loose connections. Secure any loose wires.
- **Avoid Harsh Chemicals:** Do not use strong chemical cleaners or solvents on the camera unit, as they may damage the housing or lens.
- **Temperature Extremes:** While designed for automotive use, prolonged exposure to extreme temperatures (hot or cold) can affect electronic components.



A detailed close-up of the camera unit, showing its compact design and lens.

7. TROUBLESHOOTING

If you encounter issues with your reversing camera, refer to the following troubleshooting guide:

- **No Image on Display:**
 - Check if the vehicle is in reverse gear.
 - Verify all power and video cable connections are secure and correctly plugged in.
 - Ensure the display unit is set to the correct video input channel.
 - Check the camera's power supply by testing the reverse light circuit with a multimeter.
- **Flickering or Distorted Image:**
 - Inspect video cables for damage or loose connections.
 - Ensure proper grounding for the camera's power supply.
 - Check for electromagnetic interference from other vehicle electronics.
- **Poor Image Quality (Blurry/Dark):**
 - Clean the camera lens thoroughly.
 - Ensure there is sufficient ambient light for optimal night vision performance.
 - Verify the camera is securely mounted and not vibrating.
- **Parking Lines Incorrect:**
 - Parking lines are typically fixed and cannot be adjusted. Ensure the camera is mounted straight.

If the problem persists after following these steps, please contact Tbest customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Tbest
Compatible Devices	Renault Fluence, Duster, Megane
Installation Type	Surface Mount (License Plate Light Housing)
Voltage	12 Volts
Optical Sensor Technology	CCD
Lens Type	Wide Angle
Real View Angle	170 Degrees
Connector Type	RCA
Optical Sensor Size	1/3 inch
Field of View	170 Degrees
Illumination (Lux)	0.2
Screen Capture Resolution	720p
Effective Capture Resolution	720 Pixels



This image provides precise measurements of the camera unit, including its length, width, and height, in both millimeters and inches.

9. WARRANTY AND SUPPORT

Tbest products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official Tbest website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Tbest customer service through the retailer where you purchased the product or via the contact information provided on the official Tbest website.

