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› BOYO VTC207AHD Vehicle AHD Backup Camera System User Manual

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BOYO VTC207AHD Vehicle AHD Backup Camera System User Manual

Model: VTC207AHD | Brand: BOYO VISION

PRODUCT OVERVIEW

The BOYO VTC207AHD is a vehicle backup camera system featuring a 7-inch dash monitor and a heavy-duty AHD camera. This system is designed to provide a clear, sharp image for improved visibility when reversing, suitable for cars, trucks, SUVs, and vans. The monitor includes a reverse trigger wire for automatic display activation when the vehicle is in reverse and offers an additional video input for an optional front-view camera.

Key Features:

- 7-inch AHD Monitor for clear display.
- Heavy-duty AHD Backup Camera with super sensitive low lux performance.
- Waterproof Rating (IP68) for the camera ensures durability in various weather conditions.
- Picture customization menu for adjusting display settings.
- One video input and one camera input for versatile connectivity.
- Includes a 65.5-foot video cable for flexible installation.

PACKAGE CONTENTS

Please verify that all components are present before beginning installation:

- 7-inch AHD Monitor
- AHD Backup Camera
- Suction Cup Monitor Mount
- Dash Monitor Mount (Adhesive Base)
- Monitor Power Cable
- Camera Power Cable
- 65.5-foot Video Extension Cable
- RCA Adapter Cables



Image: All components of the BOYO VTC207AHD system, including the 7-inch monitor, backup camera, various mounting options, and connecting cables.

SETUP AND INSTALLATION

1. Mounting the Monitor

The 7-inch monitor can be mounted on your windshield using the suction cup mount or on your dashboard using the adhesive dash mount. Ensure the chosen location does not obstruct your view or interfere with vehicle controls.

- **Suction Cup Mount:** Clean the windshield surface thoroughly. Press the suction cup firmly against the glass and engage the lever to secure it. Adjust the monitor angle for optimal viewing.
- **Dash Mount:** Clean and dry the dashboard surface where the mount will be placed. Peel off the protective film from the adhesive base and firmly press the mount onto the dashboard. Hold for 30 seconds to ensure a strong bond. Attach the monitor to the mount and adjust its angle.



Image: The 7-inch monitor mounted on a suction cup, shown alongside the compact backup camera.

2. Camera Installation

The backup camera should be mounted at the rear of your vehicle, typically above the license plate or on the bumper, ensuring a clear view of the area behind the vehicle. The camera has an IP68 waterproof rating, making it suitable for exterior mounting.

- **Placement:** Select a location that provides the widest possible view and is free from obstructions.
- **Securing:** Use the provided mounting hardware to securely attach the camera.
- **Cable Routing:** Carefully route the camera cable through the vehicle's body to the interior, ensuring it is protected from sharp edges, heat, and moving parts. Use grommets or sealant where cables pass through body panels to prevent water ingress.

3. Wiring Connections

Proper wiring is crucial for the system's functionality. If you are unsure about any wiring steps, consult a professional installer.

1. **Monitor Power:** Connect the monitor's power cable to a 12V DC power source in your vehicle. The red wire is typically positive (+), and the black wire is negative (-).
2. **Camera Power:** Connect the camera's power cable. The red wire should be connected to the vehicle's reverse light power wire (12V DC) so the camera powers on when reverse gear is engaged. The black wire connects to a ground point.
3. **Video Connection:** Use the 65.5-foot video extension cable to connect the camera's video output to the monitor's camera input. Ensure connections are secure.
4. **Reverse Trigger Wire:** Connect the monitor's reverse trigger wire (often a thin green or blue wire) to the same reverse light power wire as the camera. This activates the monitor automatically when reversing.
5. **Optional Second Video Input:** If adding a front-view camera or another video source, connect its video output to the monitor's second video input.

OPERATING INSTRUCTIONS

Powering On/Off

The monitor will typically power on automatically when the vehicle's ignition is turned on, or when the reverse gear is engaged (if the reverse trigger wire is connected). Most monitors also feature a power button for manual control.

Basic Monitor Functions

The monitor features several buttons for control:

- **Power Button:** Turns the monitor on or off.
- **Menu Button:** Accesses the picture customization menu.
- **Up/Down Buttons:** Navigate menu options or adjust values.
- **V1/V2 (or V/O) Button:** Switches between video inputs (e.g., Camera 1, Camera 2/Aux Video).

Picture Customization Menu

Press the Menu button to access settings such as brightness, contrast, color, and aspect ratio. Use the Up/Down buttons to select and adjust settings. Press Menu again to exit.

Using the Reverse Trigger

When the reverse trigger wire is correctly connected, the monitor will automatically switch to the backup camera view when the vehicle is shifted into reverse gear. When taken out of reverse, the monitor will return to its previous state or turn off, depending on its power connection.

Adding a Second Video Input

The monitor supports an additional video input. If you have connected a second camera (e.g., a front-view camera) or another video source, you can switch to this input using the V1/V2 button on the monitor.

MAINTENANCE

Cleaning the Monitor

Use a soft, dry, lint-free cloth to gently wipe the monitor screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaning solution. Avoid harsh chemicals or abrasive materials.

Cleaning the Camera Lens

Periodically inspect the camera lens for dirt, mud, or water spots. Clean the lens with a soft, damp cloth to ensure a clear image. Avoid scratching the lens.

Cable Inspection

Occasionally check all cables and connections for signs of wear, fraying, or corrosion. Ensure all connections remain secure to prevent signal loss or power issues.

TROUBLESHOOTING

- **No Image on Monitor:**
 - Check all power connections to both the monitor and camera. Ensure they are receiving 12V DC.
 - Verify the video cable is securely connected at both ends.
 - Ensure the monitor is set to the correct video input (V1/V2).
 - If using the reverse trigger, confirm it is correctly wired to the reverse light power.
- **Poor Image Quality (Flickering, Distorted, or Unclear):**
 - Clean the camera lens.
 - Check for loose or damaged video cable connections.
 - Ensure the camera and monitor are receiving stable power. Voltage fluctuations can affect image quality.
 - Adjust brightness, contrast, and color settings in the monitor's picture customization menu.
- **Monitor Does Not Turn On:**
 - Check the monitor's power cable connection and ensure it is receiving power from the vehicle's electrical system.
 - Press the power button on the monitor.
 - Check the vehicle's fuse for the circuit powering the monitor.

SPECIFICATIONS

Model Number	VTC207AHD
Brand	BOYO VISION
Screen Size	7 Inches
Voltage	12 Volts
Optical Sensor Technology	CMOS
Lens Type	Fixed Wide Angle
Real Angle of View	170 Degrees
Connector Type	RCA
Optical Sensor Size	1/4 inch
Waterproof Rating	IP68 (Camera)
Video Cable Length	65.5 feet
Product Dimensions	10.1 x 4.8 x 6.6 inches
Item Weight	3.4 pounds

WARRANTY INFORMATION

Specific warranty details for the BOYO VTC207AHD system are not provided in this manual. Please refer to the warranty card included with your product or visit the official BOYO VISION website for the most current warranty information and terms.

CUSTOMER SUPPORT

For technical assistance, installation questions, or further support regarding your BOYO VTC207AHD system, please contact BOYO VISION customer service. Contact information can typically be found on the product packaging, the official BOYO VISION website, or any included support documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question