

## EchoMaster PHDCAM10U

# EchoMaster PHDCAM10U Universal Camera User Manual

MODEL: PHDCAM10U

## 1. Introduction

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This manual provides detailed instructions for the installation, operation, and maintenance of your EchoMaster PHDCAM10U Universal AHD/CVBS Water-Proof Camera with Night Vision. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

## 2. Safety Information

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- Ensure the vehicle's power is disconnected before beginning installation to prevent electrical shock or damage.
- Always follow local regulations and traffic laws when installing and using this camera.
- Do not attempt to modify or disassemble the camera. This will void the warranty and may cause damage.
- Keep the camera and its components away from extreme temperatures, direct sunlight for prolonged periods, and corrosive chemicals.
- Professional installation is recommended for optimal performance and safety.

## 3. Package Contents

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Verify that all the following items are included in your package:

- Universal HD Camera with butterfly bracket
- Tag-Mount Bracket (license plate bracket)
- Camera Wiring Harness
- 20 ft. Camera Extension Harness (EchoMaster Standard 5-Pin Cable)
- Hardware Pack
- User Manual (this document)



Figure 3.1: Contents of the PHDCAM10U package, showing the camera, wiring harness, extension cable, and both mounting brackets.

## 4. Key Features

- **Dual Resolution Output:** Selectable Analog High Definition (AHD) 720P or Standard (CVBS) 480P output.
- **Water/Debris-Proof:** IP67 rated for rugged use in various environmental conditions.
- **Night Vision:** Equipped with 4 IR LEDs for enhanced visibility in low-light or dark conditions.
- **Wide Viewing Angle:** 170° viewing angle for comprehensive coverage.
- **Selectable Parking Lines:** Option to display or hide parking guide lines on the monitor.
- **Selectable Mirror Mode:** Allows the camera image to be mirrored or non-mirrored, suitable for front or rear mounting.
- **Multiple Mounting Options:** Includes both license plate bracket and butterfly bracket for versatile installation.
- **Universal Connectivity:** Standard 5-pin EchoMaster connector with a 20 ft extension harness and RCA video connector for compatibility with various monitors or head units.



Figure 4.1: Front view of the PHDCAM10U camera, highlighting the lens and IR LEDs for night vision.



Figure 4.2: Angled view of the PHDCAM10U camera, illustrating its compact form factor and integrated butterfly bracket.

## 5. Installation Guide

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### 5.1 Mounting Options

The PHDCAM10U camera offers two primary mounting methods:

- **License Plate Bracket:** Attach the camera to the included license plate bracket for discreet mounting near the vehicle's license plate.
- **Butterfly Bracket:** The camera comes pre-attached to a butterfly bracket, allowing for surface mounting on any flat surface of the vehicle.

### 5.2 Wiring Instructions

Follow these steps for proper wiring:

1. **Power Connection:** Connect the red wire from the camera's wiring harness to a 12V switched power source (e.g., reverse light power for a backup camera, or accessory power for a front camera). Connect the black wire to a reliable vehicle ground.
2. **Video Connection:** Connect the 5-pin connector from the camera to the 20 ft. extension harness. Route the extension harness to your monitor or head unit.
3. **Monitor Connection:** Connect the RCA video output from the extension harness to the video input of your compatible monitor or head unit.
4. **Test Functionality:** Before finalizing the installation, power on your vehicle and test the camera's video feed and selectable features.

## 6. Operating Instructions

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### 6.1 Resolution Selection (AHD/CVBS)

The PHDCAM10U supports both AHD (720P) and CVBS (480P) video outputs. The camera typically has a small wire loop or switch on its harness for resolution selection. Consult the specific wiring harness for your unit to determine how to switch between AHD and CVBS modes. Ensure your monitor or head unit is compatible with the selected resolution.

### 6.2 Parking Line Display

The camera can display parking guide lines on the video feed. There is typically a small wire loop on the camera harness that, when cut or connected, will toggle the parking lines on or off. Refer to the wiring diagram provided with your camera for the exact wire.

### 6.3 Mirror Mode

The camera's image can be set to mirrored (for rear view) or non-mirrored (for front view). Similar to parking lines, a specific wire loop on the harness controls this function. Cutting or connecting this wire will switch the image orientation. Ensure the image is correctly oriented for your application.

### 6.4 Night Vision

The integrated IR LEDs automatically activate in low-light conditions, providing enhanced visibility during nighttime or in dark environments. No user intervention is required for night vision activation.

## 7. Maintenance

- **Cleaning:** Regularly clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots. Avoid abrasive cleaners or materials that could scratch the lens.
- **Inspection:** Periodically check the camera's mounting and wiring connections to ensure they are secure and free from damage.
- **Water Exposure:** While the camera is IP67 rated, avoid directing high-pressure water jets directly at the camera for extended periods.

## 8. Troubleshooting

Problem	Possible Cause	Solution
No image on monitor	No power to camera; Loose video connection; Incorrect video input selected on monitor.	Check power and ground connections; Ensure video cable is securely connected; Select correct video input on monitor.
Flickering or distorted image	Poor power connection; Interference; Damaged video cable.	Verify stable 12V power; Reroute video cable away from power lines; Inspect video cable for damage.
Parking lines not appearing/disappearing	Parking line wire loop incorrectly configured.	Refer to wiring instructions to correctly cut or connect the parking line wire loop.
Image is reversed (mirror image)	Mirror mode wire loop incorrectly configured.	Refer to wiring instructions to correctly cut or connect the mirror mode wire loop.
Poor night vision performance	Dirty lens; Obstructed IR LEDs.	Clean the camera lens; Ensure IR LEDs are not blocked.

## 9. Specifications

Feature	Specification
Model	PHDCAM10U
Sensor Type	1/3" CMOS sensor
Output Resolution	AHD (720P) / CVBS (480P) selectable
Viewing Angle	170°
Minimum Illumination	0 LUX (with IR LEDs)
Waterproof Rating	IP67


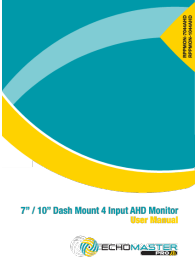


Feature	Specification
Operating Voltage	12 Volts
Connector Type	Standard 5-Pin EchoMaster
Installation Type	Surface Mount (Butterfly Bracket) / License Plate Mount (Tag-Mount Bracket)


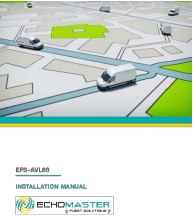
## 10. Warranty and Support

EchoMaster products are designed for reliability and performance. This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EchoMaster website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact EchoMaster customer service through their official channels. Always provide your product model number (PHDCAM10U) when seeking support.

## Related Documents - PHDCAM10U

	<p><a href="#">EchoMaster PHDCAM10U Universal CVBS/AHD Camera User Manual</a></p> <p>User manual for the EchoMaster PHDCAM10U Universal CVBS/AHD Camera, detailing its features, specifications, box contents, and wiring diagram for improved vehicle safety and maneuvering.</p>
	<p><a href="#">EchoMaster 7" / 10" Dash Mount 4 Input AHD Monitor Installation Guide</a></p> <p>Installation and user guide for the EchoMaster RPPMON-7044AHD and RPPMON-1044AHD dash mount AHD monitors. Features include 7"/10" HD display, quad AHD inputs, multiple split screen options, and CVBS/720p AHD support.</p>
	<p><a href="#">EchoMaster RVC-W3 AHD Wireless Camera &amp; Receiver Kit User Manual</a></p> <p>User manual for the EchoMaster RVC-W3 AHD Wireless Camera &amp; Receiver Kit, detailing features, box contents, pairing instructions, functions, wiring diagrams, specifications, and FCC compliance.</p>
	<p><a href="#">EchoMaster PHSK-2L Universal Dual Temperature Carbon Fibre Seat Heater Kit Installation Guide</a></p> <p>Comprehensive installation guide for the EchoMaster PHSK-2L Universal Dual Temperature Carbon Fibre Seat Heater Kit, covering introduction, general information, box contents, installation steps, operating instructions, troubleshooting, and wiring diagrams.</p>

	<p><a href="#">EchoMaster CAM-DPL Universal Reverse Camera User Manual</a></p> <p>User manual for the EchoMaster CAM-DPL universal reverse camera, detailing specifications, features, box contents, dimensions, and wiring diagrams for installation and use.</p>
	<p><a href="#">EchoMaster EFS-AVL68 Installation Guide: GPS Asset Tracker Setup</a></p> <p>Comprehensive installation manual for the EchoMaster EFS-AVL68 GPS asset tracker. Learn how to install, configure, and activate your device for fleet and asset management.</p>

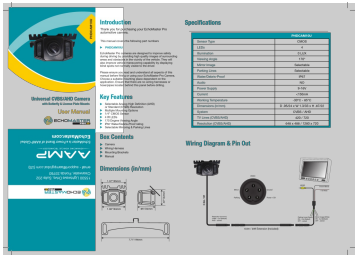
Documents - EchoMaster – PHDCAM10U



[EchoMaster PHDCAM10U Universal CVBS/AHD Camera User Manual](#)

User manual for the EchoMaster PHDCAM10U Universal CVBS/AHD Camera, detailing its features, specifications, box contents, and wiring diagram for improved vehicle safety and maneuvering.

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Universal CVBS/AHD Camera with Butter y License Plate Mounts User Manual

**PHDCAM10U** Introduction Thank you for purchasing your EchoMaster Pro automotive camera. This manual covers the following part numbers **PHDCAM10U** EchoMaster Pro cameras are designed to improve safety during driving by providi...

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