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EchoMaster PCAM-BS1-N

EchoMaster PCAM-BS1-N Flexible Housing Self-Adhesive Blind Spot Camera User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EchoMaster PCAM-BS1-N Flexible Housing Self-Adhesive Blind Spot Camera. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

PRODUCT OVERVIEW

The EchoMaster PCAM-BS1-N is a versatile camera designed to enhance vehicle safety by providing a clear view of blind spots. Its flexible housing and self-adhesive mounting allow for discreet and secure placement. The camera is suitable for front, side, or rear view applications.

Key Features:

- **1/4" CMOS Sensor:** Provides clear image capture.
- **0.1 LUX Operation:** Ensures visibility in low-light conditions.
- **IP67 Water/Debris Proof Rating:** Designed for durability against environmental elements.
- **Self-Adhesive Mounting:** Facilitates easy and secure installation.
- **80° Viewing Angle:** Offers a wide field of vision.
- **Adjustable Camera Orientation:** Allows for precise aiming after mounting.

WHAT'S IN THE BOX

Carefully unpack the contents and ensure all items are present:

- EchoMaster PCAM-BS1-N Camera
- Instruction Manual
- Mounting Hardware
- U-Shaped Camera Angle Adjustment Tool
- Video Cable (approximately 20 feet)

- Power Cable



Image: The EchoMaster PCAM-BS1-N camera, wiring harness, and user manual as packaged in the product box.

SETUP AND INSTALLATION

The PCAM-BS1-N camera is designed for flexible installation on various surfaces using its self-adhesive backing. It is a wired camera and requires connection to a compatible monitor or head unit.

Installation Steps:

1. **Choose Mounting Location:** Select a flat, clean surface for mounting. The camera can be used for front, side (e.g., under side mirrors), or rear applications.
2. **Clean Surface:** Thoroughly clean the chosen mounting area to ensure optimal adhesion.
3. **Test Angle (Crucial Step):** Before permanently adhering, temporarily position the camera and connect it to your monitor to verify the desired viewing angle. Once the self-adhesive is applied, repositioning may damage the adhesive.
4. **Apply Adhesive:** Remove the protective film from the self-adhesive backing and firmly press the camera onto the prepared surface.
5. **Adjust Camera Orientation:** Use the provided U-shaped adjustment tool to fine-tune the camera's aim. Insert the tool into the small holes near the lens to rotate the camera module within its housing.
6. **Wiring:**
 - Connect the camera's video output (RCA connector) to the video input of your compatible monitor or head unit. The included video cable is approximately 20 feet long.
 - Connect the camera's power cable to a 12-volt power source in your vehicle. Ensure proper polarity.
7. **Secure Wiring:** Route and secure all cables away from moving parts, heat sources, and sharp edges to prevent damage.



Image: The EchoMaster PCAM-BS1-N camera, ready for installation.



Image: Detailed view of the camera and its connection cables.

OPERATING INSTRUCTIONS

Once properly installed and connected, the EchoMaster PCAM-BS1-N camera will provide video output to your connected monitor. The camera is designed for continuous operation or can be triggered by specific vehicle actions (e.g., reverse gear, turn signal) depending on how it is wired to your vehicle's electrical system and integrated with your monitor.

- **Power On:** The camera activates when it receives 12V power.
- **Viewing:** The video feed will display on your connected monitor.
- **Low Light Performance:** The 0.1 LUX sensitivity allows for clear images even in dimly lit environments.
- **Wide Angle View:** The 80-degree viewing angle helps minimize blind spots.

MAINTENANCE

The EchoMaster PCAM-BS1-N camera is designed for minimal maintenance due to its durable construction and IP67 rating.

- **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.
- **Inspection:** Regularly check the camera's mounting and wiring for any signs of loosening or damage.
- **Water/Debris Protection:** The IP67 rating ensures protection against dust ingress and temporary immersion in water (up to 1 meter for 30 minutes). However, avoid high-pressure washing directly on the camera.

TROUBLESHOOTING

If you encounter issues with your PCAM-BS1-N camera, refer to the following common troubleshooting steps:

- **No Image on Monitor:**

- Verify that the camera is receiving power (12V).
- Check all video cable connections (RCA) between the camera and the monitor. Ensure they are securely plugged in.
- Confirm the monitor is set to the correct video input channel.

- **Poor Image Quality:**

- Clean the camera lens to remove any dirt, dust, or smudges.
- Ensure the protective film, if any, has been removed from the lens.
- Check for any kinks or damage in the video cable.
- Verify the monitor's display settings.

- **Camera Not Sticking:**

- Ensure the mounting surface was thoroughly cleaned and dry before application.
- The adhesive is designed for a single, firm application. If repositioned, new adhesive may be required.

SPECIFICATIONS

Feature	Specification
Model Number	PCAM-BS1-N
Sensor Type	1/4" CMOS
Minimum Illumination	0.1 LUX
Water/Debris Proof Rating	IP67
Viewing Angle	80 Degrees (Real Angle of View)
Lens Type	Wide Angle, Fixed
Installation Type	Self-Adhesive
Voltage	12 Volts
Connector Type	RCA
Compatible Devices	Monitor
Product Dimensions	6.5 x 4.5 x 2.5 inches; 9.59 ounces
Revision Number	1621

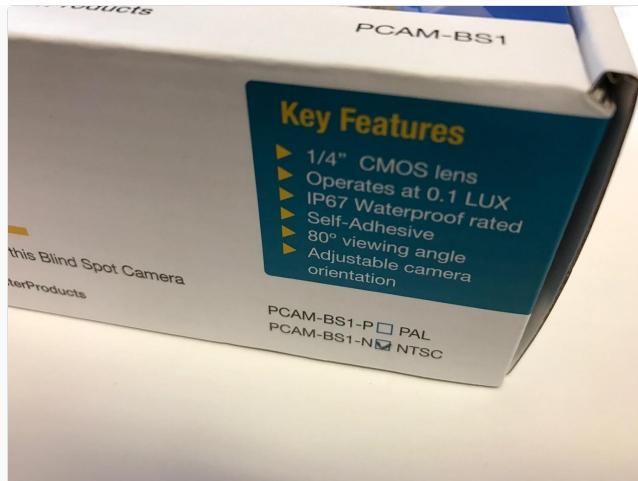


Image: Product box highlighting key features.



Image: Product box with model and revision details.

WARRANTY INFORMATION

For specific warranty details, please refer to the warranty card included with your product or visit the official EchoMaster website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you require further assistance or have questions not covered in this manual, please contact EchoMaster customer support. Contact information can typically be found on the product packaging or the official EchoMaster website.

	<p><u>EchoMaster PHDCAM10U Universal CVBS/AHD Camera User Manual</u></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>
  <small>PBS-RD1 77GHz Blind Spot Detection Assist System OPERATION GUIDE / MANUAL</small> 	<p><u>EchoMaster PBS-RD1 77GHz Blind Spot Detection Assist System Operation Guide and Manual</u></p> <p>Comprehensive operation guide and installation manual for the EchoMaster PBS-RD1 77GHz Blind Spot Detection Assist System. Learn about system components, wiring, installation, functions, troubleshooting, and technical specifications.</p>
<small>EchoMaster back-up alarms are designed to improve safety during backing up by providing loud tones in the vicinity of the vehicle. Please ensure you read and understand all aspects of this manual before fitting or using your EchoMaster back-up alarm. Choose a suitable mounting location and follow the fitting instructions. Ensure that there are no wiring harnesses or hoses/pipes located behind the panel before drilling.</small> <small>email : support@ampglobal.com phone : 866-601-4021 15500 Lightwave Drive, Suite 202 Cupertino, CA 95014-3700 EchoMaster is a Power Brand of AMP Global Echomaster.com</small>	<p><u>EchoMaster BUA-97C Backup Alarm: Specifications and Installation Guide</u></p> <p>Comprehensive guide for the EchoMaster BUA-97C backup alarm, detailing its purpose, installation instructions, box contents, wiring diagram, dimensions, and technical specifications for enhanced vehicle safety.</p>
	<p><u>EchoMaster CAM-DPL Universal Reverse Camera User Manual</u></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>
 <small>P-BUA-SILVERADO Wiring Harness for Backup Alarm 2016-2021 Chevrolet Silverado INSTALLATION MANUAL</small> 	<p><u>Installation Manual: EchoMaster P-BUA-SILVERADO Wiring Harness for 2016-2021 Chevrolet Silverado</u></p> <p>Step-by-step installation guide for the EchoMaster P-BUA-SILVERADO wiring harness, designed for 2016-2021 Chevrolet Silverado trucks. Includes required tools, parts list, compatible accessories, and detailed instructions for integrating a backup alarm.</p>
 <small>MRCHDDVR2 FULL SCREEN REAR VIEW MIRROR REPLACEMENT MONITOR WITH DVR AND BACKUP CAMERA KIT USER MANUAL</small> 	<p><u>EchoMaster MRCHDDVR2 User Manual: Installation and Operation Guide</u></p> <p>User manual for the EchoMaster MRCHDDVR2 Rear View Mirror Monitor with DVR and Backup Camera. Covers installation, features, settings, and troubleshooting for enhanced vehicle safety.</p>