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Brandmotion AHDS-7810V2

Brandmotion Wireless Observation IR Camera System (AHDS-7810V2) User Manual

Model: AHDS-7810V2

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Brandmotion Wireless Observation IR Camera System with a 7-inch HD Monitor (Model AHDS-7810V2). This system is designed to enhance visibility and security for various vehicles, including RAM 1500 (09-2018) and Heavy Duty (2010-Current) trucks, as well as RVs and trailers. It features a wireless camera, a 7-inch HD monitor with DVR capabilities, and infrared night vision for clear viewing day or night.

2. Package Contents

Please verify that all items listed below are included in your package:

- 7-inch HD DVR Monitor
- Wireless HD Observation Camera
- Monitor Suction Cup Mount
- Monitor Dashboard Mount
- Camera Mounting Bracket
- DC Power Cable for Monitor (Cigarette Lighter Adapter)
- DC Power Cable for Camera
- Antennas (for Monitor and Camera)
- Installation Hardware (screws, etc.)

Figure 2.1: All components included in the Brandmotion AHDS-7810V2 Wireless HD Observation System, including the 7-inch monitor, wireless camera, various mounting brackets, power cables, and antennas.

3. Setup and Installation

3.1 Monitor Installation

1. Choose a suitable location for the 7-inch HD monitor on your vehicle's windshield or dashboard that does not obstruct your view or interfere with airbags.
2. Attach the suction cup mount or dashboard mount to the monitor.
3. Secure the monitor to the chosen surface. Ensure the mount is firmly attached.
4. Connect the DC power cable to the monitor and plug the other end into your vehicle's 12V accessory outlet (cigarette lighter).
5. Attach the antenna to the designated port on the monitor.

3.2 Camera Installation

1. Select a mounting location for the wireless camera that provides the desired field of view, typically at the rear of the vehicle or trailer. Ensure the location allows for a clear line of sight for wireless transmission if possible.
2. Use the provided camera mounting bracket and hardware to securely attach the camera. You may need to drill pilot holes.
3. Adjust the camera's swivel head to achieve the optimal viewing angle.
4. Connect the DC power cable to the camera. This cable typically connects to a 12V power source on your vehicle (e.g., reverse lights for a backup camera function, or constant power for continuous observation).
5. Attach the antenna to the designated port on the camera.

Figure 3.1: The wireless camera positioned next to the 7-inch HD monitor, illustrating the compact design of the observation system.

3.3 Initial Pairing (if necessary)

The camera and monitor are typically pre-paired from the factory. If they do not connect automatically, refer to the 'MENU' options on the monitor to initiate a pairing process. Ensure both devices are powered on and within range (up to 80 feet for a reliable connection).

4. Operating Instructions

4.1 Powering On/Off

Once connected to power, the monitor should power on automatically or by pressing the power button. To power off, press and hold the power button.

4.2 Monitor Controls

The monitor features several buttons for navigation and control:

- **CAM:** Switches between connected cameras (supports up to 4 cameras).

- **MENU:** Accesses system settings, including pairing, display options, and recording settings.
- **-** / **+:** Navigates menu options or adjusts settings (e.g., brightness, volume).
- **ENTER:** Confirms selections in the menu.
- **CARD:** Accesses recorded footage or initiates recording.

4.3 Viewing Modes

The monitor can display video from a single camera or multiple cameras simultaneously in a split-screen view. Use the 'CAM' button to cycle through available camera views.

Figure 4.1: The 7-inch HD monitor shows a split-screen view from multiple cameras, illustrating the system's capability to display various angles simultaneously.

4.4 Recording Functionality

The monitor includes DVR functionality, allowing you to record video footage. Insert a microSD card (up to 128GB, not included) into the designated slot. Refer to the 'MENU' for recording settings such as continuous recording, loop recording, and motion detection.

Figure 4.2: The system supports continuous recording to enhance security, capturing footage from multiple cameras.

4.5 Infrared Night Vision

The camera is equipped with infrared (IR) LEDs to provide clear visibility in low-light conditions or complete darkness.

5. Maintenance

5.1 Cleaning

To clean the monitor screen and camera lens, use a soft, lint-free cloth. For stubborn dirt, dampen the cloth with water or a mild, non-abrasive cleaning solution. Avoid harsh chemicals that could damage the surfaces.

5.2 Weather Protection

The wireless camera features an IP65 international protection rating, indicating it is protected against dust ingress and low-pressure water jets from any direction. This makes it suitable for outdoor use in various weather conditions.

Figure 5.1: The wireless camera features a waterproof casing, providing protection against environmental elements for enhanced durability.

6. Troubleshooting

Problem	Possible Cause	Solution
No image on monitor	Power issue, camera/monitor not paired, out of range, antenna not connected.	Check power connections. Ensure both camera and monitor are powered on. Re-pair devices via monitor menu. Ensure devices are within 80ft range and antennas are securely attached.
Image flickering or poor quality	Weak wireless signal, interference, low battery (if applicable).	Reduce distance between camera and monitor. Check for sources of interference (e.g., other wireless devices). Ensure stable power supply.
Recording not working	No microSD card, card full, card not formatted, recording settings incorrect.	Insert a compatible microSD card (up to 128GB). Format the card via monitor menu. Check recording settings.

Problem	Possible Cause	Solution
Monitor mount not secure	Surface not clean, suction cup not properly engaged.	Clean the mounting surface thoroughly. Ensure the suction cup lever is fully engaged. Consider using the dashboard mount for a more permanent solution.
Installation screws too long/holes too small	Incompatibility with specific vehicle mounting points.	Use appropriate drill bits to enlarge holes if necessary, or acquire shorter screws suitable for your specific application.

7. Specifications

Feature	Detail
Model Name	AHDS-7810V2
Screen Size	7 Inches
Video Capture Resolution	1080p
Frame Rate	30 frames per second
Connectivity Technology	Wi-Fi (Wireless)
Wireless Communication Range	Up to 80 feet (reliable connection)
Number of Channels	4 (supports up to 4 cameras)
Power Source	DC (4 Volts, 3 Watts)
Camera Light Source Type	Infrared
Camera International Protection Rating	IP65 (Dust tight, protected against water jets)
Storage Support	MicroSD card up to 128GB (for DVR)
Material	Plastic
Product Dimensions (L x W x H)	3.5 x 8.5 x 12 inches
Item Weight	3.07 pounds

8. Warranty and Support

8.1 Warranty Information

The Brandmotion Wireless Observation IR Camera System (AHDS-7810V2) comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Brandmotion's US-based support team. Detailed contact information can be found on the official Brandmotion website or through your retailer.
Visit www.brandmotion.com for more information and support resources.

Related Documents - AHDS-7810V2

	Brandmotion AHDS-7810v2 Wireless Observation Camera System Installation Guide Installation instructions for the Brandmotion AHDS-7810v2 Wireless Observation Camera System with a 7" HD DVR Monitor. Includes details on monitor mounting, power solutions, camera installation, and system pairing.
	Brandmotion AHDS-7810v2 Wireless Observation Camera System Installation Guide Comprehensive installation instructions for the Brandmotion AHDS-7810v2 Wireless Observation Camera System with a 7" HD DVR Monitor. Covers kit contents, monitor mounting and power options, and camera mounting and power connections for both pre-wired and universal setups.
	Brandmotion AHDS-7811v2 Wireless HD Observation Camera Installation Instructions Detailed installation guide for the Brandmotion AHDS-7811v2 Wireless HD Observation Camera, including kit contents, tools, and mounting procedures for pre-wired and universal setups.
	BRANDMOTION AHDS-7810 Wireless Backup Camera System with 7" HD Monitor - Installation Guide Detailed installation instructions for the BRANDMOTION AHDS-7810 Wireless Backup Camera System with 7" HD Monitor, covering kit contents, tool recommendations, monitor and camera mounting, power connections, and system pairing.
	Brandmotion Commercial 360° SurroundVUE™ System Installation and User Guide Comprehensive guide for installing and operating the Brandmotion FLTW-3601 Commercial 360° SurroundVUE™ System, featuring camera setup, wiring, calibration, and DVR functionality.

[Brandmotion Infrared Dual Mount Universal CMOS Camera Installation Instructions (Kit 9002-7611)]

Detailed installation guide for the Brandmotion Infrared Dual Mount Universal CMOS Camera Kit 9002-7611, including parts list, tools needed, safety precautions, and step-by-step instructions for mounting and wiring.