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› 9 inch Digital Monitor 1080P HD Rear View Camera System with Wired, HD DVR Recorder, 4 Channel Input, Quad Split Screen, 4X 1080P Heavy Duty

## Camslead CL9D105BHD

# Camslead 9-inch Digital Monitor 1080P HD Rear View Camera System

Model: CL9D105BHD - User Instruction Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Camslead 9-inch Digital Monitor 1080P HD Rear View Camera System. This system is designed for heavy-duty applications, offering a reliable solution for monitoring your vehicle's surroundings with high-definition video recording capabilities.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the lifespan of your product.

## 2. PRODUCT COMPONENTS

The Camslead 9-inch Digital Monitor 1080P HD Rear View Camera System includes the following components:

- 9-inch Monitor with Built-in DVR (1 pc)
- 1080P Side Cameras (4 pcs)
- 4PIN 15m Extension Cables (4 pcs)
- L-Bracket (1 pc)
- Power Cable (1 pc)
- Sunshade (1 pc)
- Remote Control (1 pc)
- Operation Manual (1 pc) - *This document*
- Sponge Mat (4 pcs)

# PACKAGE LIST



9" DVR Monitor

1PCS



U-Bracket

1PCS



Power Cable

1PCS



Sunshade

1PCS



Remote Control

1PCS



Operation Manual

1PCS



1080P Side CAM

4PCS



Sponge Mat

4PCS



15(49ft) Extend Cable

4PCS

Figure 2.1: Overview of all included components in the package.



Figure 2.2: The 9-inch monitor, four 1080P cameras, and associated wiring, along with an SD card (not included in package).

## 2.1. Monitor Features

- High Definition Digital Color LCD wide screen video monitor.
- Resolution: 1024(H) x 600(V).
- Built-in quad / split screen functionality, capable of displaying up to four camera views simultaneously.
- Eight multi-screen combination display modes, configurable as default boot screen.
- Built-in DVR for 1080P video recording.
- Supports up to 256GB SD card for video storage (SD card not included).
- Loop recording with auto overwrite function.
- On-monitor video playback.
- Parking lines assistance feature, adjustable via display settings.

# Full HD 1080P DVR

8 Viewing Modes: Single Full View / Split Dual View / Split Triple View / Quad Four View.

Supports up to **256GB** Class 10 SD Card

Continuous Loop Recording

Built-in **Speaker**



Figure 2.3: The 9-inch monitor with Full HD 1080P DVR capabilities, showing a single camera view.



Figure 2.4: Physical dimensions of the 9-inch monitor.

## 2.2. Camera Features

- 1080P 1/2.8" Image Sensor (SONY CCD).
- Effective Pixels: 1920(H) x 1080(V).
- Frame Rate: 1080P@30fps.
- Sturdy metal shell construction.
- Waterproof rating: IP69.
- Operating temperature: -20°C to 70°C.
- IR Night Vision: Rear-view camera built-in 18 IR LEDs, side camera built-in 12 IR LEDs.
- Night vision distance up to 12 meters (39 feet).
- 120° viewing angle with all-glass, high-pixel lens.
- Infrared light sensor for automatic activation based on ambient light.
- Mounting bracket allows 360° rotation for installation.

# Full HD 1080P Cameras

**SONY CCD 1/2.8" Image Sensor**

**Effective Pixels 1920(H) x 1080(v)**

**Frames Per Second 1080P@30fps**

**With Infrared Light, Night Vision,**



Figure 2.5: Examples of the Full HD 1080P cameras included in the system.

# Full HD 1080P Side Camera

## 18 Infrareads

See up to 15 m distance in the dark

## IP69 Rating

Completely waterproof ,  
Spherical shell, you can rotate  
the installation position 360°

## Aluminum Shell

Thick, high-strength shell

60mm

## 120° Viewing Angle

All glass, high pixel lens

## Mounting Bracket

Aluminum material  
Stronger and durabler

65mm

90mm

## Infrared Light

IR sensor automatically open and  
close based on outside light

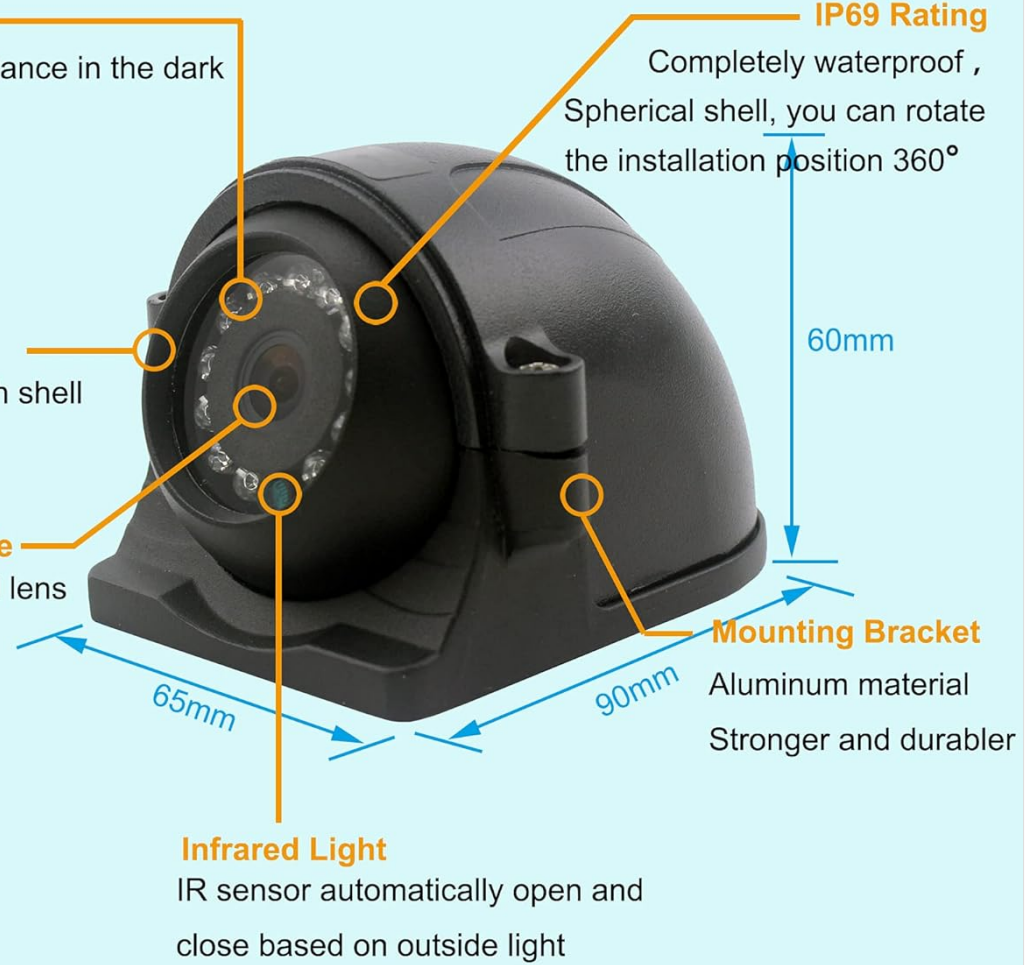


Figure 2.6: Detailed features and dimensions of the 1080P side camera.



Figure 2.7: Various views of the camera unit, including its detachable shell.

### 3. INSTALLATION AND SETUP

Proper installation is crucial for the optimal performance of your camera system. Follow these steps carefully.

#### 3.1. Wiring Connections

The system operates on a wide voltage range of 12V-36V DC, suitable for most medium to large vehicles.

1. Connect the **Red wire** and **Yellow wire** to the vehicle's ACC (Accessory) power source.
2. Connect the **Black wire** to a metal ground point on the vehicle chassis.
3. Connect the 4-pin plugs from the cameras to the corresponding AV1/AV2/AV3/AV4 inputs on the monitor. Use the provided 15m extension cables as needed.
4. **Trigger Wires:** The trigger wires (Green for V5, White for V4, Gray for V3, Purple for V2) are optional. If connected to

a specific trigger (e.g., reverse light), the monitor will automatically display the corresponding camera in full screen when activated.

5. **Parking Monitoring:** For 24-hour parking monitoring, please connect the yellow wire to Battery+ and the red wire to ACC+.
6. **Video Output:** The monitor has a video output (V5) that can be connected to another monitor if desired.

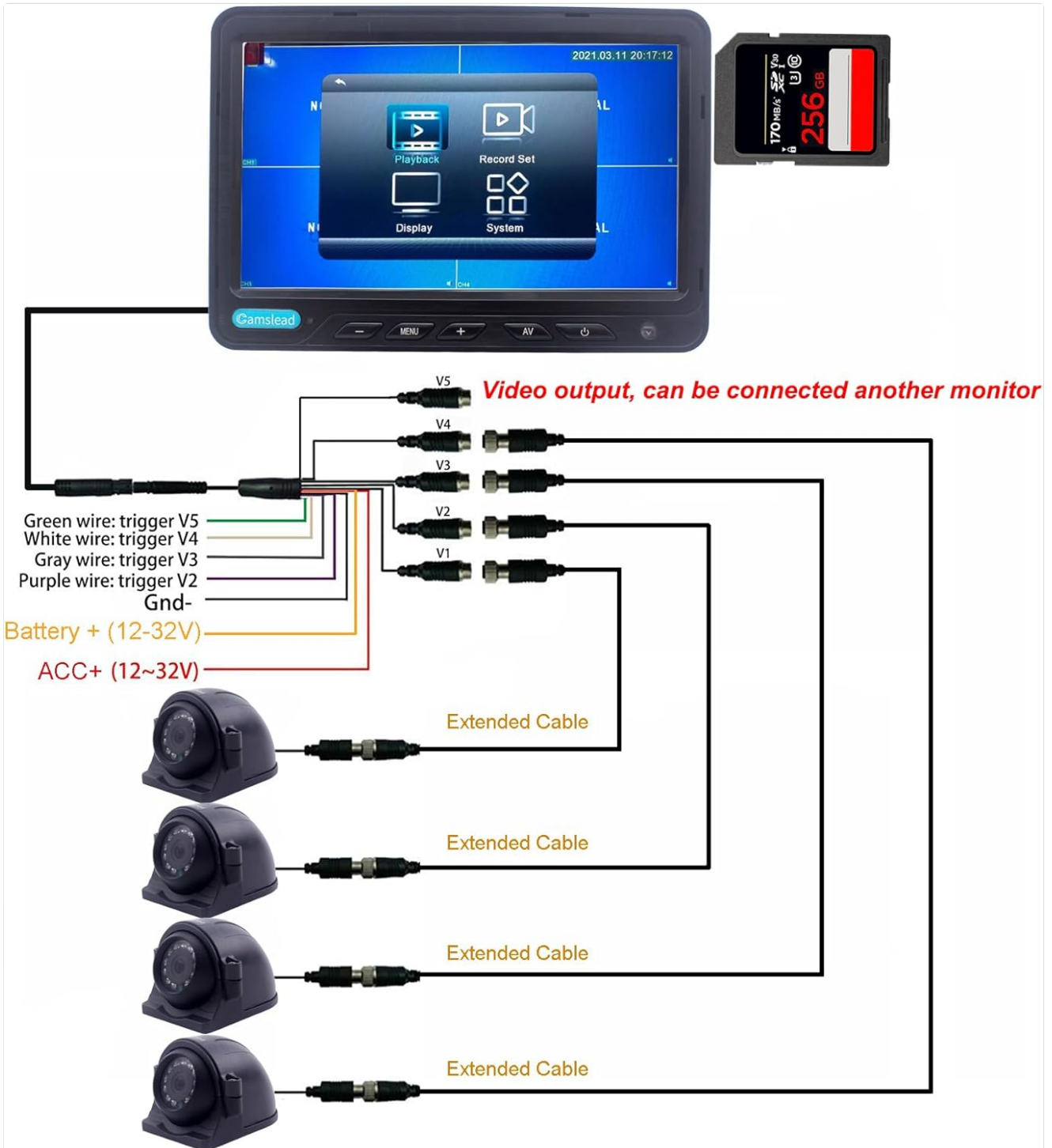


Figure 3.1: Comprehensive wiring diagram for the system components.

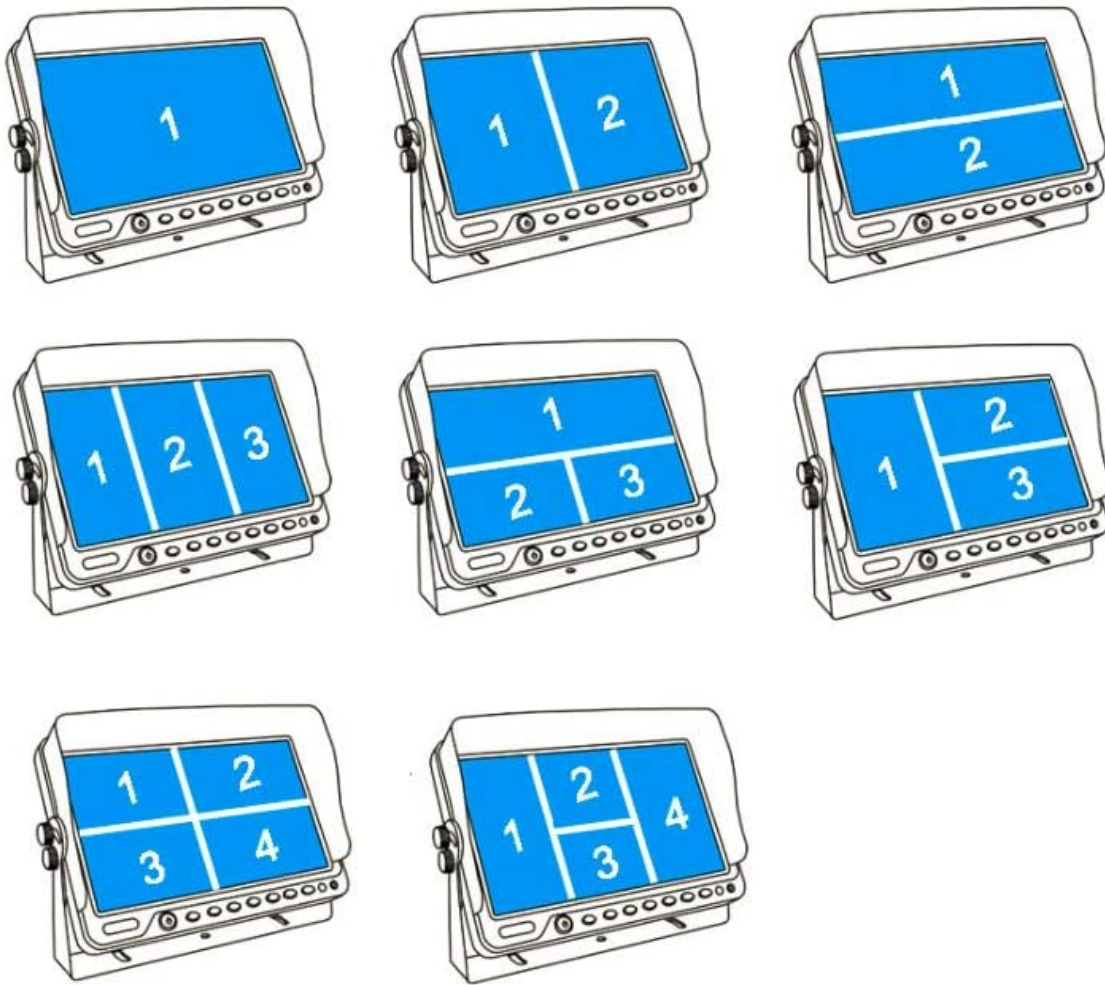
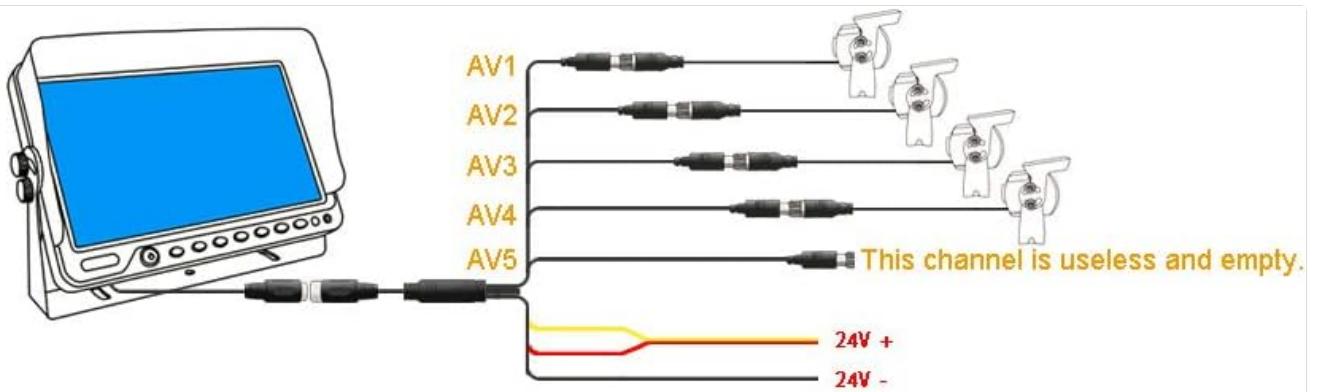


Figure 3.2: Monitor input channels and available multi-screen display modes.

### 3.2. Camera Mounting

Mount the cameras securely in desired locations, ensuring a clear field of view. The robust metal shell and IP69 waterproof rating allow for external mounting. The mounting bracket allows for 360° rotation to adjust the camera's viewing angle.

## 4. OPERATING INSTRUCTIONS

### 4.1. Monitor Operation

- **Power On/Off:** Press the power button on the monitor or remote control.
- **Channel Switching:** Use the AV button on the monitor or remote to cycle through camera views (AV1, AV2, AV3,

AV4) or split-screen modes.

- **Menu Navigation:** Use the MENU button to access settings. Use the '+' and '-' buttons to navigate and adjust values.
- **Split Screen Modes:** The monitor supports single full view, split dual view, split triple view, and quad four view. You can select from 8 multi-screen combination display modes.
- **Parking Lines:** Enable or disable parking lines assistance through the monitor's settings menu.

## 4.2. DVR Recording

The monitor has a built-in DVR for recording video footage.

1. **SD Card Insertion:** Insert an SD card (up to 256GB, Class 10 recommended, not included) into the designated slot on the monitor.
2. **Automatic Recording:** The system will automatically begin recording when powered on, utilizing loop recording to overwrite the oldest files when the SD card is full.
3. **Video Playback:** Recorded videos can be played back directly on the monitor or by removing the SD card and viewing on a computer.

## 4.3. 24-Hour Parking Monitoring

If the yellow wire is connected to Battery+ and the red wire to ACC+, the system can monitor your vehicle's surroundings even when parked. This feature requires continuous power supply to the yellow wire.

# 5. MAINTENANCE

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- **Cleaning:** Regularly clean the camera lenses and monitor screen with a soft, damp cloth. Avoid abrasive cleaners.
- **Cable Inspection:** Periodically check all cables and connections for wear, damage, or loose fittings. Secure any loose connections.
- **SD Card Management:** Format the SD card periodically (e.g., monthly) to maintain optimal recording performance and prevent data corruption. Back up important footage before formatting.
- **Environmental Protection:** While cameras are IP69 waterproof, ensure the monitor is protected from direct exposure to water and extreme temperatures.

# 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No image on monitor.	No power to monitor. Loose camera connection. Faulty camera or cable.	Check power connections (Red/Yellow to ACC, Black to Ground). Ensure all 4-pin camera cables are securely connected to the monitor. Test with a different camera or cable if available.
Image flickering or distorted.	Poor power supply. Interference. Damaged cable.	Ensure stable 12V-36V power supply. Check for strong electromagnetic interference sources near cables. Inspect cables for damage.
DVR not recording.	No SD card or faulty SD card. SD card full. Incorrect SD card format.	Insert a compatible SD card (max 256GB, Class 10). Format the SD card via the monitor's menu or on a computer. Ensure loop recording is enabled in settings.
Night vision not working.	IR LEDs not activating. Insufficient ambient light for IR sensor.	Ensure the camera is in a dark environment for IR LEDs to activate automatically. Check for any obstructions blocking the IR LEDs.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	CL9D105BHD
Monitor Screen Size	9 Inches
Monitor Display Technology	LCD
Monitor Resolution	1024(H) x 600(V)
Video Capture Resolution	1080p
Camera Image Sensor	1/2.8" 1080P (SONY CCD)
Camera Effective Pixels	1920(H) x 1080(V)
Camera Frame Rate	1080P@30fps
Camera Waterproof Rating	IP69
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Power Input	12V-36V DC
SD Card Support	Max 256GB (Class 10 recommended)
Product Dimensions	14 x 9 x 8 inches
Item Weight	11.44 pounds

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please contact Camslead customer service. Refer to the contact details provided on the product packaging or the official Camslead website.

**Manufacturer:** Guangzhou Zhiren Electronic Co., Ltd

**Date First Available:** April 11, 2020