

DVKNM TH102

DVKNM 9" AHD IPS Monitor Backup Camera System User Manual

Model: TH102

1. PRODUCT OVERVIEW

The DVKNM 9" AHD IPS Monitor Backup Camera System is a comprehensive solution designed to enhance safety and convenience for various vehicles, including cars, trucks, and RVs. This kit features a high-resolution 1080P HD DVR recording monitor and dual IP69 waterproof cameras, providing clear and detailed views for improved driving and parking.



Figure 1: Complete DVKNM Backup Camera System Kit

Key features include a 9-inch IPS monitor with 1920x1080 pixel resolution, convenient DVR loop recording with an included 32GB SD card, and upgraded HD cameras with night vision capabilities. The system supports dual cameras and split-image display, operating efficiently within a 9-36V voltage range.

2. PACKAGE CONTENTS

Before beginning installation, please verify that all components listed below are present in your package:

PACKAGE INCLUDES



Figure 2: Detailed view of all items included in the DVKNM Backup Camera System package.

- 9-inch IPS Monitor (with integrated power cord)
- IP69 1080P Camera (x2)
- 66ft Video Cable (x2)
- Remote Control
- Installation Kits (screws, etc.)
- Fan-Shaped Bracket
- Double-Sided Adhesive
- 32GB SD Card (pre-installed in monitor)
- Car Charger
- U-Shaped Bracket
- User Manual (this document)

3. SETUP AND INSTALLATION

The DVKNM Backup Camera System is designed for easy DIY plug & play installation. It can be powered by the included car charger or hardwired into your vehicle's electrical system. The system supports an operating voltage range of 9-36V, making it suitable for various vehicle types.

3.1 Camera Mounting

The cameras are designed for versatile mounting. They can be installed on the rear of your vehicle, or on side mirrors for improved blind spot visibility. Ensure the camera is securely fastened using the provided installation kits and brackets.

100%

WATERPROOF IP69 RATING

Uses unique potting process for commercial grade waterproofing, durable and long lasting for years.



Figure 3: IP69 Waterproof Camera Design

3.2 Wiring Connections

- Connect the cameras to the monitor using the provided 66ft video cables.
- Power the monitor using either the car charger plugged into your vehicle's cigarette lighter socket or by hardwiring it to a suitable power source (9-36V).
- Ensure all connections are secure to prevent signal loss or power interruptions.

3.3 SD Card Insertion

The 32GB SD card for DVR recording is typically pre-installed. If not, locate the SD card slot on the monitor and insert the card until it clicks into place. Ensure the card is correctly oriented.

4. OPERATING INSTRUCTIONS

The DVKNM monitor provides a clear, high-resolution display and various viewing modes to suit your needs.

4.1 Monitor Display and Resolution

The 9-inch IPS monitor delivers sharp, detailed 1920x1080 pixel images, offering a significant improvement over standard displays. This high resolution ensures a clear and detailed view of your surroundings.



Figure 4: High Resolution IPS Monitor Display

4.2 Split Screen Mode

The system supports various split-screen modes, allowing you to view feeds from both cameras simultaneously. Use the 'MODE' or 'CH' buttons on the monitor or remote control to cycle through different display options, including single camera

view, dual camera split view, and potentially quad view depending on the model's specific capabilities.



Figure 5: Multiple Split-Screen Display Options

4.3 DVR Loop Recording and Playback

The system functions as a dash cam with convenient loop recording. Recorded videos are automatically saved to the included 32GB memory card. When the card is full, the oldest footage is overwritten. You can access and play back recorded videos directly on the monitor.

CONVENIENT LOOP RECORDING

Loop Recording & Local Playback functionality turn it into a dash cam. Recorded videos are automatically saved on the included 32GB SD card, allowing you to easily view them on the monitor.



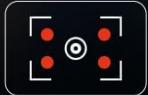
Figure 6: Convenient Loop Recording Feature

4.4 Night Vision

The upgraded HD cameras feature a night vision system, ensuring clear visibility even in low-light or dark conditions. When the surrounding light is insufficient or completely dark, the system automatically switches to night vision mode, displaying the image in black and white. With sufficient ambient light, the image appears in color.

UPGRADED NIGHT VISION SYSTEM

Even in total darkness, night or low light conditions, the camera can see everything clearly to ensure your safety.



ICR Infrared Lights



Night vision



Advanced chips



Figure 7: Upgraded Night Vision System

4.5 Parking Lines

The camera system includes adjustable parking lines to assist with precise maneuvering and parking. These guidelines appear on the monitor overlaying the camera feed.

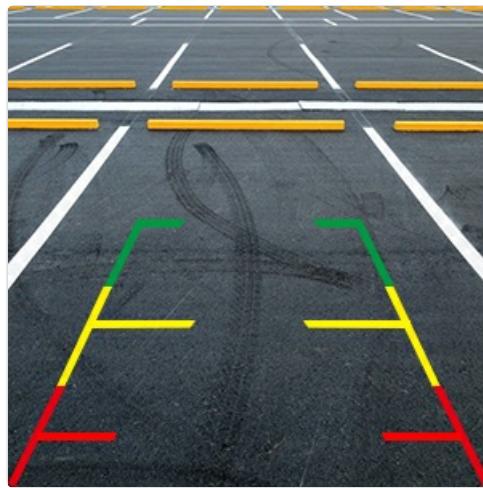


Figure 8: Parking Line Assistance

4.6 Video Demonstrations

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Video 1: This video demonstrates the split-screen mode, loop recording functionality, and night vision performance of the DVKNM backup camera system in various lighting conditions.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DVKNM Backup Camera System.

- **Camera Cleaning:** Regularly clean the camera lenses with a soft, damp cloth to remove dirt, dust, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Monitor Cleaning:** Use a soft, dry, lint-free cloth to clean the monitor screen. For stubborn smudges, a screen-safe cleaning solution can be applied to the cloth (not directly to the screen).
- **Waterproofing:** The cameras feature an IP69 waterproof rating and a unique potting process for commercial-grade waterproofing. While highly durable, avoid directing high-pressure water jets directly at the camera housing during washing.
- **Cable Inspection:** Periodically inspect all cables and connections for any signs of wear, fraying, or damage. Ensure they remain securely connected.
- **SD Card Management:** Although the system features loop recording, it is recommended to periodically back up important footage and format the SD card (if needed) to maintain optimal recording performance.



Figure 9: Camera Durability and Environmental Resistance

6. TROUBLESHOOTING

If you encounter any issues with your DVKNM Backup Camera System, please refer to the following common troubleshooting steps:

- **No Image on Monitor:**

- Check all power connections to the monitor and ensure it is receiving power (indicator lights should be on).
- Verify that the video cables from the cameras are securely connected to the correct input ports on the monitor.
- Ensure the cameras are receiving power.
- Cycle through the monitor's input channels using the 'CH' button to ensure the correct camera input is selected.

- **Image is Blurry or Distorted:**

- Clean the camera lenses thoroughly.
- Check for any kinks or damage in the video cables.
- Ensure the camera is securely mounted and not vibrating.

- **Night Vision Issues (Too Dark or Flashing Screen):**

- Ensure the camera's infrared (IR) lights are not obstructed.
- In extremely low light, the image will be black and white. This is normal for night vision mode.
- If the screen flashes between normal and night mode, it may be due to fluctuating ambient light. Ensure the camera is positioned to minimize direct light sources at night.

- **Recording Gaps or SD Card Errors:**

- Ensure the 32GB SD card is properly inserted and not full.
- Format the SD card through the monitor's system settings. This can resolve many recording issues.
- If issues persist, try a different compatible SD card.

- **Buttons/Remote Not Responding Correctly:**

- For the remote control, check and replace batteries if necessary.
- Ensure there are no obstructions between the remote and the monitor's IR receiver.
- If physical buttons are unresponsive or behave unexpectedly (e.g., 'up' acts as 'down'), try restarting the monitor by disconnecting and reconnecting power. If the issue persists, contact customer support.

If these steps do not resolve your issue, please contact DVKNM customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Model Number	TH102
Monitor Screen Size	9 Inches
Display Technology	IPS
Video Capture Resolution	1080p
Operating Voltage	9-36 Volts

Camera Waterproof Rating	IP69
Optical Sensor Technology	CMOS
Lux Rating (Camera)	0.1 Lux
Product Dimensions	11 x 7 x 6 inches
Item Weight	6.91 pounds
Country of Origin	China

8. WARRANTY AND SUPPORT

DVKNM is committed to ensuring your satisfaction with our products.

- **Warranty:** This product comes with a 3-year warranty.
- **Customer Support:** We offer 24-hour customer support. If you experience any problems, require replacement of damaged parts, or need assistance with system operation, please contact us immediately.



Figure 10: DVKNM 24 Hour Customer Support