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**DVKNM TX104**

# DVKNM 10.3 Inch Backup Camera System User Manual

Model: TX104

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DVKNM 10.3 Inch Backup Camera System. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This system is designed to enhance vehicle safety and convenience with its high-resolution display, multiple camera inputs, and advanced features.



Figure 1.1: DVKNM 10.3 Inch Backup Camera System components including the monitor, four cameras, and accessories.

## 2. PACKAGE CONTENTS

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



Monitor Bracket



Camera X 4



Upgraded Bracket X2



Installation Kit



Monitor



64GB USB Disk



128GB SD Card



Car Charger



66ft Cable X2  
33ft Cable X2



Power Cord

Figure 2.1: Overview of all included components.

- 1 x 10.3 Inch IPS Touch Screen Monitor
- 4 x Cameras (2 x Dome, 2 x Square)
- 1 x Monitor Bracket
- 2 x Upgraded Camera Brackets
- 2 x 66ft Camera Cables
- 2 x 33ft Camera Cables
- 1 x 128GB SD Card
- 1 x 64GB USB Disk
- 1 x Car Charger
- 1 x Power Cord
- 1 x Installation Kit (screws, tools)

### 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your backup camera system. It is recommended to have the system installed by a qualified professional if you are not familiar with vehicle electrical systems.

#### 3.1. Monitor Installation

1. Choose a suitable location for the monitor inside your vehicle that does not obstruct your view or interfere with airbags.
2. Attach the monitor bracket to the monitor.
3. Securely mount the monitor and bracket using the provided installation kit.

#### 3.2. Camera Installation

The system includes four cameras for comprehensive coverage. Install them in positions that provide the best view for your needs, typically at the rear, front, and sides of the vehicle.

1. Select appropriate mounting points for each camera. Ensure the surface is clean and flat.
2. Securely attach the cameras using the provided screws and brackets.
3. Route the camera cables carefully, avoiding sharp edges and moving parts. Ensure cables are protected from environmental elements.

### **3.3. Wiring Connections**

Connect the monitor and cameras to your vehicle's power supply according to the wiring diagram. Ensure all connections are secure and insulated.

- Connect the monitor's power cord to a suitable 12V-24V DC power source in your vehicle (e.g., cigarette lighter socket via car charger, or direct wiring to fuse box).
- Connect each camera cable to the corresponding input on the monitor.
- Insert the 128GB SD card into the designated slot on the monitor for DVR recording.

## **4. OPERATING INSTRUCTIONS**

Your DVKNM backup camera system offers a range of features designed for ease of use and enhanced safety.

### **4.1. Powering On/Off**

The monitor will typically power on automatically when the vehicle's ignition is turned on, or when connected to a continuous power source. Use the power button on the monitor to manually turn it on or off.

### **4.2. Display Features**

The 10.3-inch IPS touch screen monitor provides clear and detailed images.



Figure 4.1: The 4K Ultra HD IPS monitor provides clear and detailed images.

#### **4.2.1. Split-Screen and Full-Screen Modes**

The monitor supports various display modes, allowing you to view multiple camera feeds simultaneously or switch to a full-screen view of a single camera.

## SWITCHABLE FULL-SCREEN DISPLAY IMAGE

10 kinds of split-screen mode settings



Figure 4.2: Examples of switchable full-screen and split-screen display modes.

Use the touch screen interface to navigate between different display layouts. There are 10 kinds of split-screen mode settings available.

### 4.2.2. Image Orientation Adjustment

You can adjust the image orientation (Normal, Mirror, Flip Vertically, Flip Horizontally) for each camera as needed.



Figure 4.3: Image orientation options for camera feeds.

### 4.3. Bluetooth Function

The system features convenient Bluetooth connectivity, allowing you to connect your smartphone for hands-free calls and music playback.



Figure 4.4: Bluetooth functionality for calls and music.

- **Pairing:** Access the Bluetooth settings on the monitor and your phone to pair the devices. The system can connect automatically once paired.
- **Calls:** Answer or make calls directly from the monitor's interface.
- **Music:** Stream audio from your phone to the system's speakers.

#### 4.4. Convenient DVR Recording

The system includes DVR functionality, automatically protecting and saving video segments in the event of an accident or impact on the included 128GB memory card.



Figure 4.5: DVR recording feature with automatic protection of incident footage.



Figure 4.6: Visual representation of the DVR's incident recording and protection.

#### 4.5. Upgraded Night Vision System

The cameras are equipped with an upgraded night vision system, utilizing ICR Infrared Lights and advanced chips to provide clear visibility even in total darkness or low light conditions.

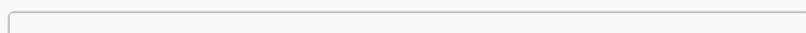


Figure 4.7: Enhanced night vision capabilities of the cameras.

#### 4.6. MP5-USB Video Player Features

Plug in the included USB flash drive or another USB storage device to play videos and music in various formats directly on the monitor.

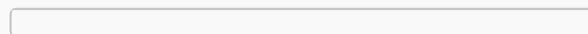


Figure 4.8: MP5-USB video player functionality.

#### 4.7. Adjustable Reversing Line

The system provides adjustable reversing lines on the display to assist with parking and maneuvering.



Figure 4.9: Adjustable reversing lines for parking assistance.

## 4.8. Wide Viewing Angle

The cameras offer a wide 150-degree viewing angle, providing a broad perspective of your surroundings.



Figure 4.10: The 150-degree wide viewing angle of the cameras.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DVKNM backup camera system.

### 5.1. Cleaning

- Gently wipe the monitor screen with a soft, lint-free cloth. For stubborn smudges, use a screen cleaner designed for electronics.
- Clean camera lenses regularly to ensure clear images. Use a soft cloth and mild cleaning solution if necessary.
- Avoid using abrasive cleaners or solvents that could damage the surfaces.

### 5.2. Waterproof Rating

The cameras feature a 100% waterproof IP69K rating, utilizing a unique potting process for commercial-grade waterproofing, ensuring durability and long-lasting performance in various weather conditions.

Figure 5.1: IP69K waterproof rating ensures camera durability in wet conditions.



Figure 5.2: The system is designed to withstand extreme temperatures from -22°F to 149°F.

### 5.3. Temperature Range

The system is designed to operate reliably in a wide range of temperatures, from -22°F to 149°F.

## 6. TROUBLESHOOTING

If you encounter issues with your DVKNM backup camera system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen	Loose power connection Faulty camera cable Camera malfunction	Check all power connections to the monitor and cameras. Ensure camera cables are securely connected. Test with another camera if available.
Poor image quality	Dirty camera lens Low light conditions Interference	Clean the camera lens. Ensure sufficient lighting for optimal night vision. Check for sources of electrical interference near cables.
Monitor not powering on	No power supply Blown fuse	Verify power connection to the vehicle's power source. Check vehicle's fuse box for blown fuses related to the power outlet.
Bluetooth not connecting	Bluetooth not enabled Device not in pairing mode	Ensure Bluetooth is enabled on both the monitor and your mobile device. Put your mobile device in pairing mode and search for the monitor.

If the problem persists after attempting these solutions, please contact DVKNM customer support.

## 7. SPECIFICATIONS

Feature	Specification
Monitor Size	10.3 inches (10.1"-TX104)

Feature	Specification
Display Type	IPS Touch Screen
Camera Resolution	1080P
Camera Viewing Angle	150 degrees
Waterproof Rating	IP69K
Operating Temperature	-22°F to 149°F (-30°C to 65°C)
DVR Recording	Yes, with 128GB SD card included
Connectivity	Bluetooth, USB (MP5 player)
Power Input	12V-24V DC
Product Dimensions	10.2 x 1.4 x 8 inches
Item Weight	11.11 pounds

## 8. WARRANTY AND SUPPORT

### 8.1. Warranty Information

Specific warranty details are typically provided with your product packaging or on the manufacturer's official website. Please refer to these resources for comprehensive warranty terms and conditions.

### 8.2. Customer Support

DVKNM is committed to providing high-quality products and services. If you have any questions, concerns, or require technical assistance, please do not hesitate to contact our customer support team.



Figure 8.1: DVKNM offers 24-hour customer support.

We offer 24-hour support to assist you with any product-related inquiries.

## Related Documents - TX104