

Pioowirk USB CMOS HD

Pioowirk Car DVR Digital Video Recorder User Manual

Model: USB CMOS HD

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your Pioowirk Car DVR Digital Video Recorder. This device is designed to enhance your driving experience by providing reliable video recording capabilities for Android Car DVD Players and Android Auto Radio Stereos.

The DVR features a front USB camera with CMOS HD resolution, offering clear video capture. Its compact design and easy integration make it a convenient addition to your vehicle's entertainment system.

2. PRODUCT FEATURES

- **Easy Installation:** Simple plug and play DVR for Android Car Multi-media receiver.
- **Real-time Viewing & Playback:** Supports real-time viewing and playback at any time.
- **High Resolution Digital Signal:** Supports USB digital signal transmission with high resolution.
- **Large Screen Display & Touch Control:** Compatible with large screen displays and full-screen touch operation.
- **Enhanced Video Transmission:** The wire rod includes a HUB digital signal amplifier for faster video transmission.
- **170-degree Wide Angle Lens:** Captures a broad visual space, covering multiple lanes.
- **WDR Technology:** Automatic adjustment of Wide Dynamic Range technology to restore image color and detail in various lighting conditions (glare, low light).
- **ADAS Driving Assistance:** Features like Front Car Collision Warning and Lane Offset Warning for enhanced safety.
- **Loop Recording:** Automatically cycles video when the memory card is full, ensuring continuous recording without manual deletion.

3. PRODUCT SPECIFICATIONS

Parameter	Value
-----------	-------

Parameter	Value
Lens Angle	170 degrees
Lens Quantity	Single lens
Screen Size	No screen (uses car display)
Color	Black
Recording Resolution	720p
Storage Compression	H.264
Video Framerate	30fps
Supply Voltage	USB interface, 5V
Power Supply	DC 5V
Operating Temperature	-30°C to 70°C
Storage Temperature	-30°C to 80°C
Adaptive Interface	USB2.0, USB1.1
Outward Material	Brand new metal material (quick heat conduction and heat dissipation)
USB Cable	3-meter step-down set with copper wire
Item Weight	7 ounces

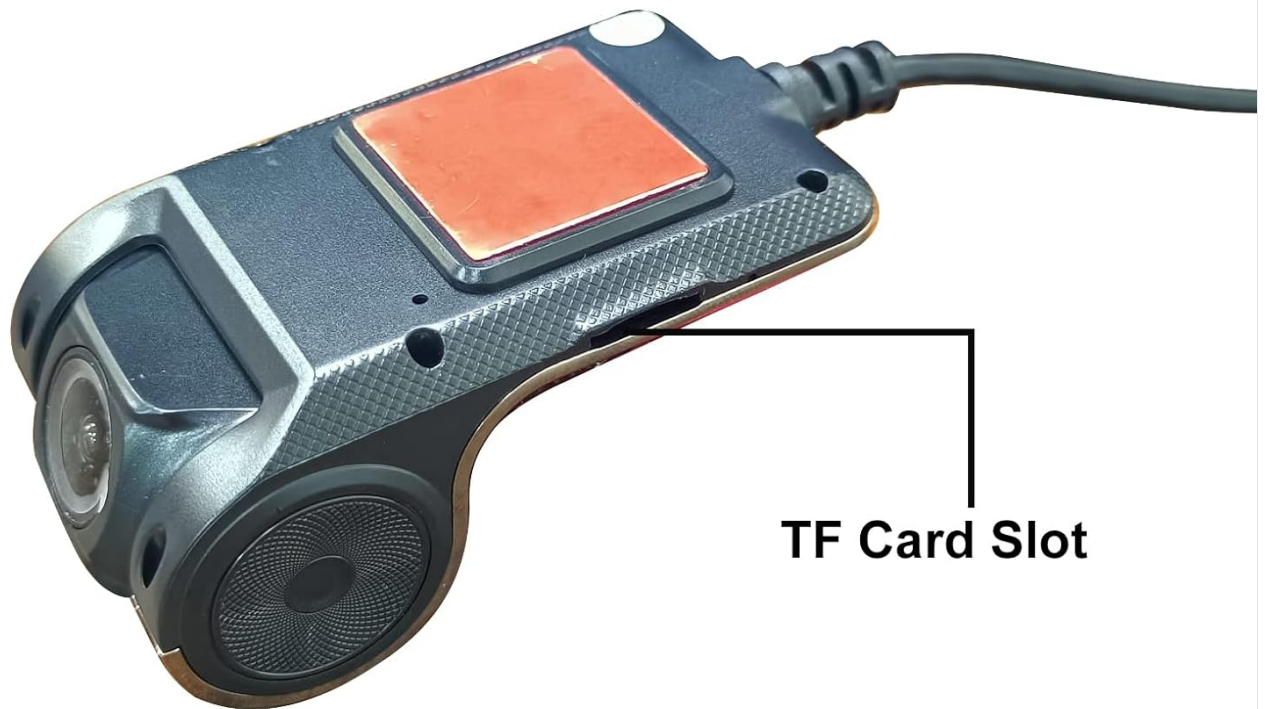
4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Car DVR:

1. **Step 1: Insert Memory Card**

Insert a compatible memory card (TF Card) into the slot of the DVR. Ensure correct orientation; do not mistake the front and back side of the card.

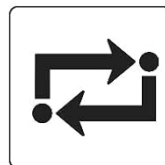
USB DVR for Android Player



ADAS



**SOUND
WARNING**



**LOOP
RECORDING**



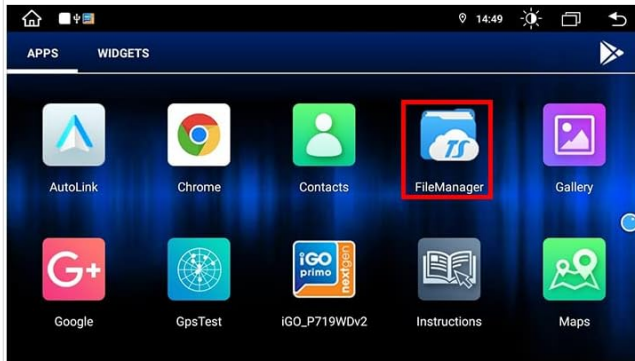
**LOOP
RECORDING**

Figure 4.1: USB DVR with TF Card Slot. The image highlights the location of the TF card slot on the side of the DVR unit.

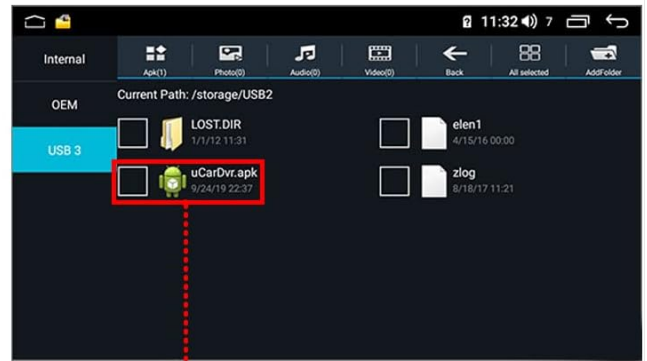
2. Step 2: Connect to Car Radio USB Interface

Connect the USB interface of the DVR unit to a USB interface on your GPS car radio or Android stereo.

Installation



Step 1: Connect DVR to the head unit via USB port (do not put SD card to the DVR in this step).



Step 2: Open filemanager app, one USB will automatically appear, install DVR apk from this USB



Step 3: Prepare an SD card by yourself and insert SD card to the SD card slot.



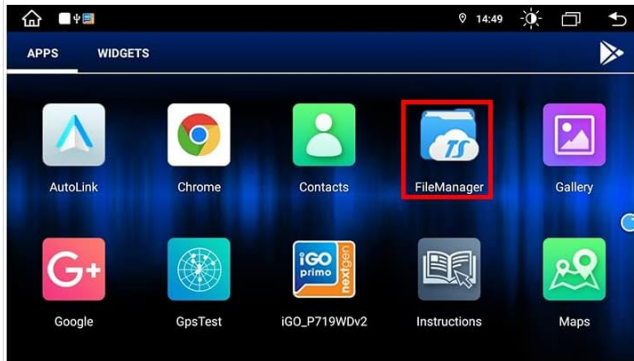
Step 4: Stick the DVR to the front windshield of the car.

Figure 4.2: DVR connection to car head unit. This diagram illustrates connecting the DVR's USB cable to the car's head unit USB port.

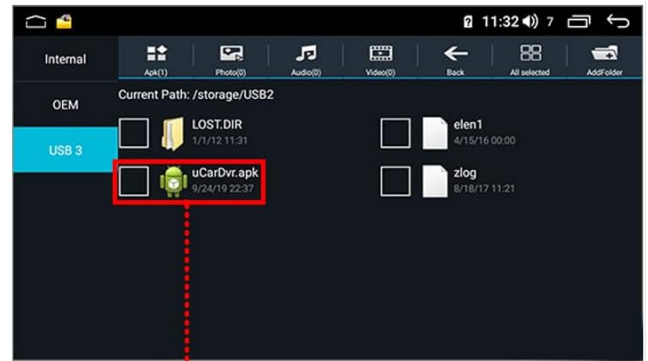
3. Step 3: Install APK

The necessary APK software is pre-installed on the DVR. Open your Android stereo's file manager, locate the APK file (e.g., "uCarDvr.apk"), and install it.

Installation



Step 1: Connect DVR to the head unit via USB port (do not put SD card to the DVR in this step).



Step 2: Open filemanager app, one USB will automatically appear, install DVR apk from this USB



Step 3: Prepare an SD card by yourself and insert SD card to the SD card slot.



Step 4: Stick the DVR to the front windshield of the car.

Figure 4.3: APK installation process. This image shows the file manager interface on an Android stereo, pointing to the DVR APK file for installation.

4. Step 4: Configure APP Settings

After installation, open the DVR application. Access the settings to configure parameters such as recording quality, loop recording duration, and the storage path for recorded videos.

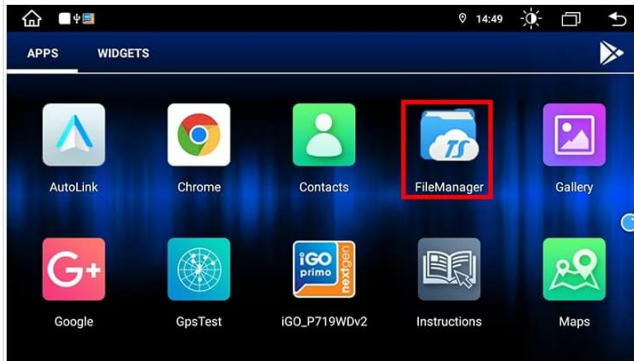
5. Step 5: Fix DVR and Route Cable

Use the provided 3M adhesive to fix the DVR securely to your car's windshield. Adjust the angle of the DVR to ensure optimal viewing. Carefully route and bury the USB cable to maintain a tidy and safe interior.

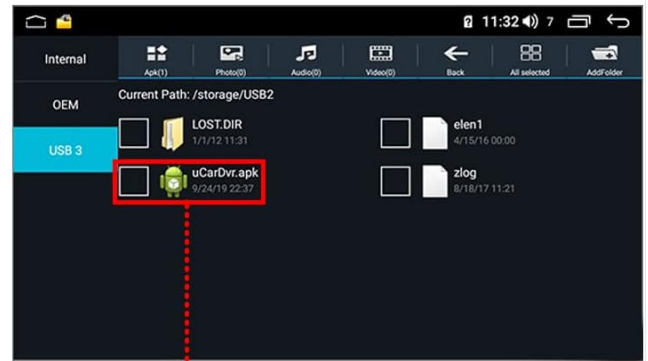


Figure 4.4: Pioowirk Car DVR showing the 3M adhesive pad on its top surface, used for mounting.

Installation



Step 1: Connect DVR to the head unit via USB port (do not put SD card to the DVR in this step).



Step 2: Open filemanager app, one USB will automatically appear, install DVR apk from this USB



Step 3: Prepare an SD card by yourself and insert SD card to the SD card slot.



Step 4: Stick the DVR to the front windshield of the car.

Figure 4.5: DVR mounted on the car windshield. This part of the installation diagram shows the DVR positioned on the upper part of the windshield, near the rearview mirror.

5. OPERATING INSTRUCTIONS

Once installed and configured, the DVR operates largely automatically. Here are key operational aspects:

- **Automatic Recording:** The DVR will automatically begin recording when your car's Android stereo powers on.
- **Accessing Live View:** Open the installed DVR application on your Android stereo to view the live camera feed.
- **Playback:** Within the DVR application, navigate to the playback section to review recorded videos. Videos are typically stored on the inserted memory card.
- **Loop Recording:** The DVR supports loop recording. When the memory card is full, the oldest files will be overwritten by new recordings. Ensure this feature is enabled in settings if desired.

ADAS Driving Assistance



Figure 5.1: Loop Recording Automatic Flip. This graphic depicts a film strip with various driving scenes, illustrating how the DVR continuously records and overwrites old footage.

- **ADAS Features:** If configured, the Advanced Driver-Assistance Systems (ADAS) will provide warnings for potential collisions or lane departures. Pay attention to audio and visual alerts from your stereo.

Loop Recording Automatic Flip

Automatically Cycle video When The Card Is Full No
Need To Worry About Insufficient Memory



Figure 5.2: ADAS Driving Assistance. This image shows a car on the road with overlays indicating features like front car collision warning and lane offset warning, demonstrating the safety assist system.

- **WDR Technology:** The Wide Dynamic Range (WDR) technology automatically adjusts to varying light conditions, ensuring clear video quality whether in bright glare or low light environments.

Automatic adjustment of WDR technology

Restore Image Color And Detail Through WDR Wide Dynamic Technology automatically Adjust light, Suitable For A Variety Of Driving Environments

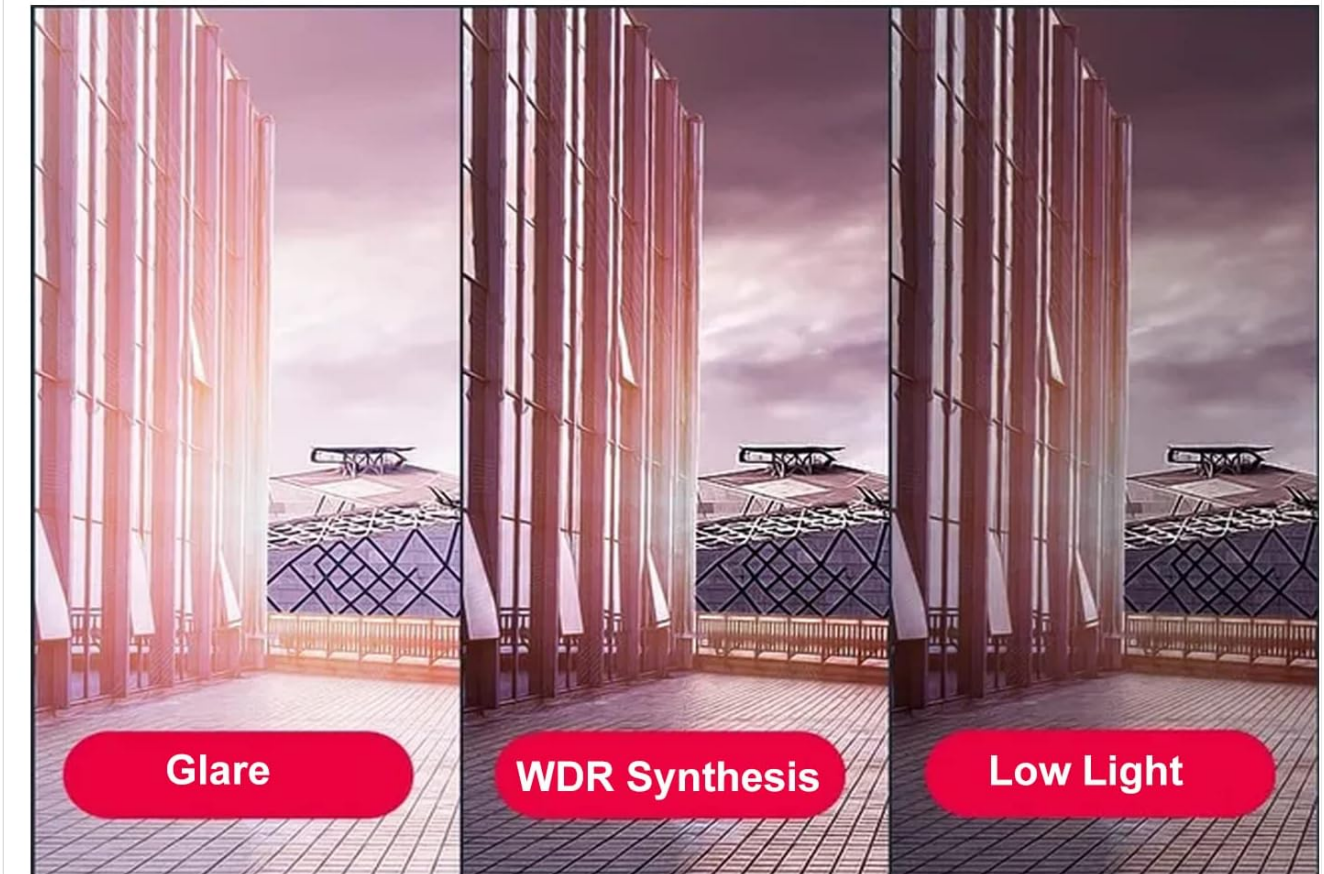


Figure 5.3: Automatic adjustment of WDR technology. This graphic compares three scenes: one with glare, one with WDR synthesis, and one with low light, showing how WDR improves image clarity.

- **Wide Viewing Angle:** The 170-degree lens provides a wide field of view, capturing a comprehensive perspective of the road ahead.

140° wide viewing angle

140° golden ratio, the viewing area covers three lanes, bringing a broad visual space



Figure 5.4: 140° wide viewing angle. This diagram shows a car from above with a blue fan-shaped overlay indicating a 140-degree super wide angle that covers three lanes.

6. MAINTENANCE

To ensure the longevity and optimal performance of your DVR, consider the following maintenance tips:

- **Clean the Lens:** Periodically clean the camera lens with a soft, lint-free cloth to ensure clear recordings. Avoid abrasive materials that could scratch the lens.
- **Memory Card Management:** Regularly format your memory card (e.g., once a month) through the DVR application settings to prevent data corruption and maintain optimal recording performance. Back up any important videos before formatting.
- **Firmware Updates:** Check the manufacturer's website or the DVR application for any available firmware updates. Keeping the firmware updated can improve performance and add new features.
- **Temperature Control:** While the DVR is designed for a wide operating temperature range, avoid prolonged exposure to extreme temperatures (e.g., direct sunlight in a parked car on a hot day) when possible, as this can

affect electronic components.

7. TROUBLESHOOTING

If you encounter issues with your DVR, refer to the following common troubleshooting steps:

- **DVR Not Powering On/Not Detected:**

- Ensure the USB cable is securely connected to both the DVR and the car stereo's USB port.
- Verify that the car stereo is powered on and functioning correctly.
- Try connecting the DVR to a different USB port on your stereo, if available.

- **No Video Feed/Black Screen:**

- Check if the DVR application is open and selected on your Android stereo.
- Ensure the camera lens is not obstructed.
- Restart the DVR application or the car stereo.

- **Recording Issues (e.g., not recording, corrupted files):**

- Verify that a memory card is properly inserted and not full.
- Format the memory card through the DVR application settings.
- Try using a different, compatible memory card.
- Check DVR settings to ensure recording is enabled and configured correctly.

- **ADAS Features Not Working:**

- Ensure the ADAS features are enabled in the DVR application settings.
- Calibrate the camera if there's an option in the settings, as proper alignment is crucial for ADAS.
- Ensure clear visibility through the windshield where the DVR is mounted.

If these steps do not resolve the issue, please contact customer support.

8. WARRANTY INFORMATION

Specific warranty details for this product are not provided in this manual. Please refer to the product packaging, your purchase receipt, or the official Pioowirk website for comprehensive warranty terms and conditions.

9. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Pioowirk Car DVR, please visit the official Pioowirk store or contact their customer service through the details provided on their website or product packaging.

Pioowirk Official Store: [Visit Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question