

## PEMP AL-6283D

# PEMP BMW X3 E83 Android 10.25-inch Touch Screen Monitor User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PEMP Android 10.25-inch Touch Screen Monitor, model AL-6283D. This device is designed to enhance the in-car entertainment and navigation experience for BMW X3 E83 models manufactured between 2004 and 2010.

The monitor features an Android 10 operating system, a Qualcomm 8-core processor, 4GB RAM, and 64GB ROM, supporting both wireless CarPlay and wired Android Auto. It integrates with your vehicle's existing systems, including the ability to display the original car interface and utilize the iDrive knob for control.

### 1.1. Compatibility

- **Vehicle Model:** BMW X3 E83 (2004-2010)
- **Original Car Configuration:** Compatible with vehicles both with and without an existing screen.

## Applicable Models

Please confirm whether the product is applicable according to the following features

### For BMW Series: E83 (2004-2010)



No display



Has display



Figure 1.1: Illustration of compatible BMW X3 E83 dashboard configurations.

## 2. PRODUCT FEATURES

- **Display:** 10.25-inch HD IPS capacitive touch screen with 1280 x 480 resolution.
- **Processor:** Qualcomm Snapdragon 625 (MSM8953) 8-core processor, up to 2.0GHz.
- **Memory:** 4GB RAM and 64GB ROM (eMCP: LPDDR3 + eMMC5.1).
- **Connectivity:** Built-in Wi-Fi (2.4G & 5G), Bluetooth, and 4G (SIM card slot).
- **Smartphone Integration:** Built-in wireless CarPlay and wired Android Auto.
- **OEM Integration:** Supports display of the original car interface and control via the iDrive knob (if installed).

## CPU

Qualcomm Snapdragon 625 MSM8953 8 Core 2.0GHz  
eMCP(LPDDR3+EMMC5.1) Low-Power Consumption

## Network Type

Support TDD-LTE/FDD-LTE/WCDMA(North America);  
SIM Card slot built-in;Support WIFI 2.4G & 5.0G.

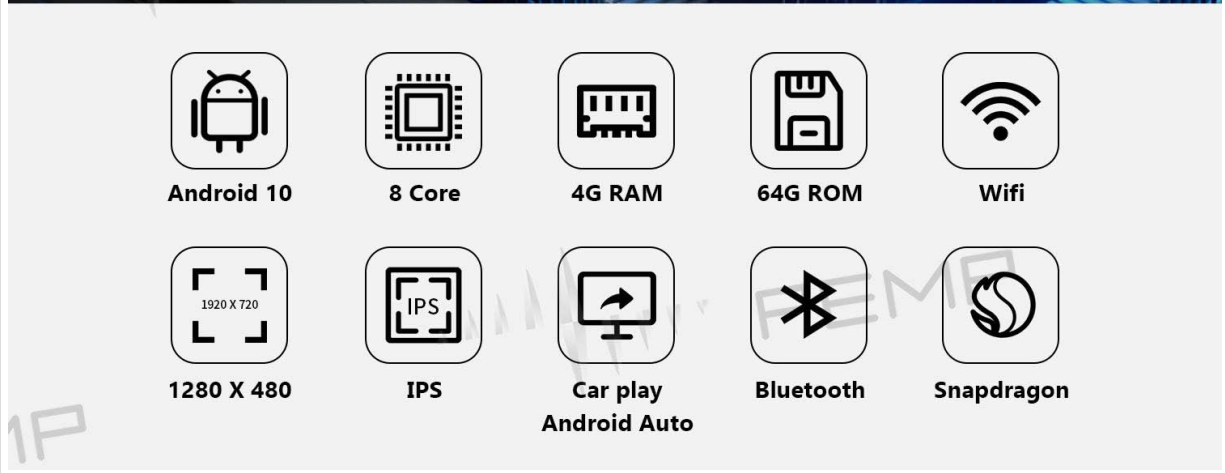


Figure 2.1: Overview of the monitor's core specifications and features.



Figure 2.2: Close-up of the 10.25-inch HD IPS display.

### 3. WHAT'S IN THE BOX

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

- 1 x Android Display Unit
- 1 x ISO Wiring Harness
- 1 x RCA Cable
- 1 x Speaker (Optional)
- 1 x 4G Antenna
- 1 x GPS Antenna
- 1 x USB Cable
- 1 x Audio Cable
- 1 x User Manual
- 1 x Installation Manual



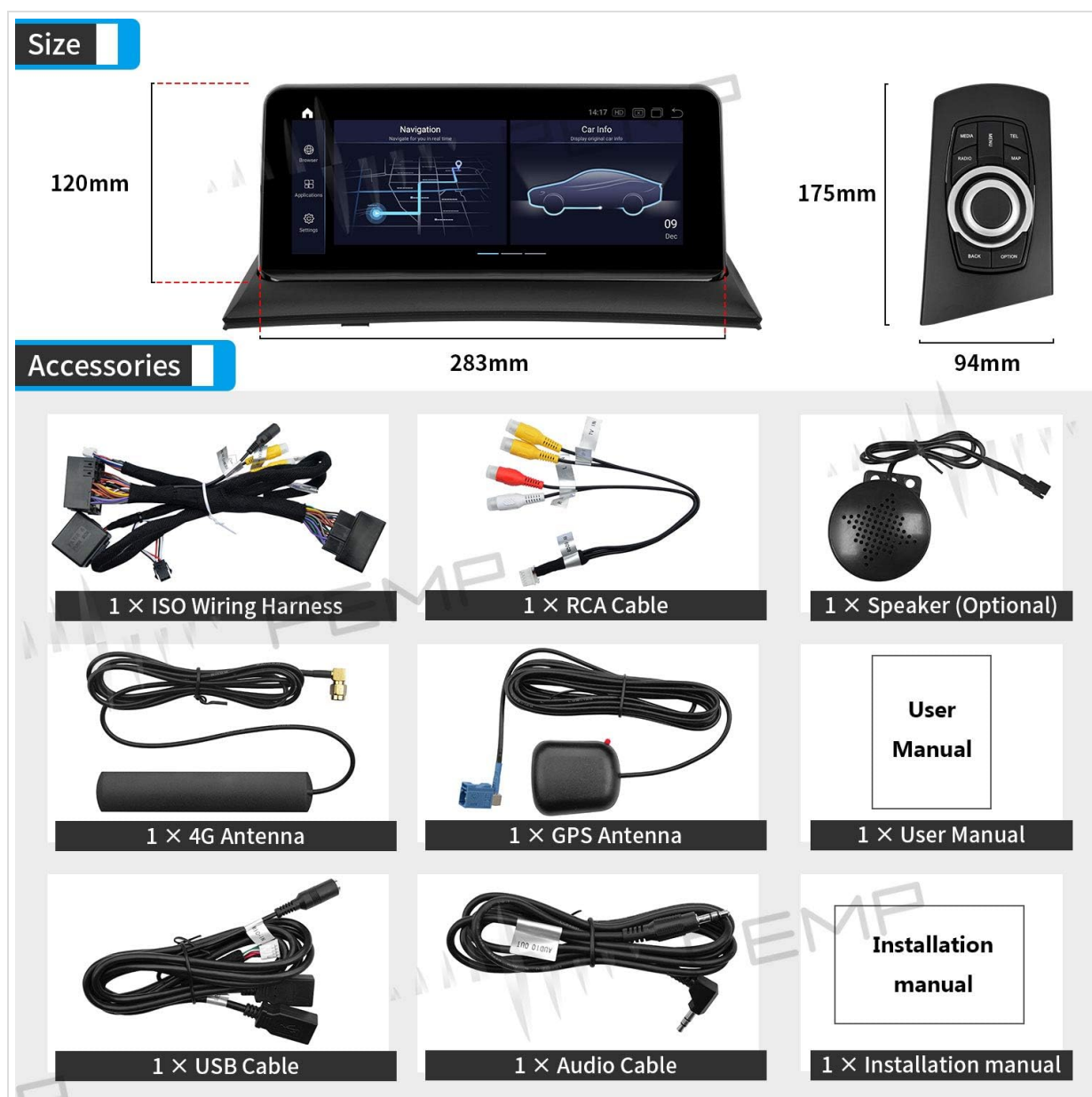


Figure 3.1: Package contents.

## 4. INSTALLATION GUIDE

### 4.1. Important Safety Information

**Please ensure that the product is installed only when the car is powered off!**

### 4.2. Pre-Installation Check

Before proceeding with installation, confirm that your OEM car radio has an AUX menu. If your vehicle does not have an AUX menu, the audio from the Android system will not function. Do not purchase or install if an AUX menu is absent.

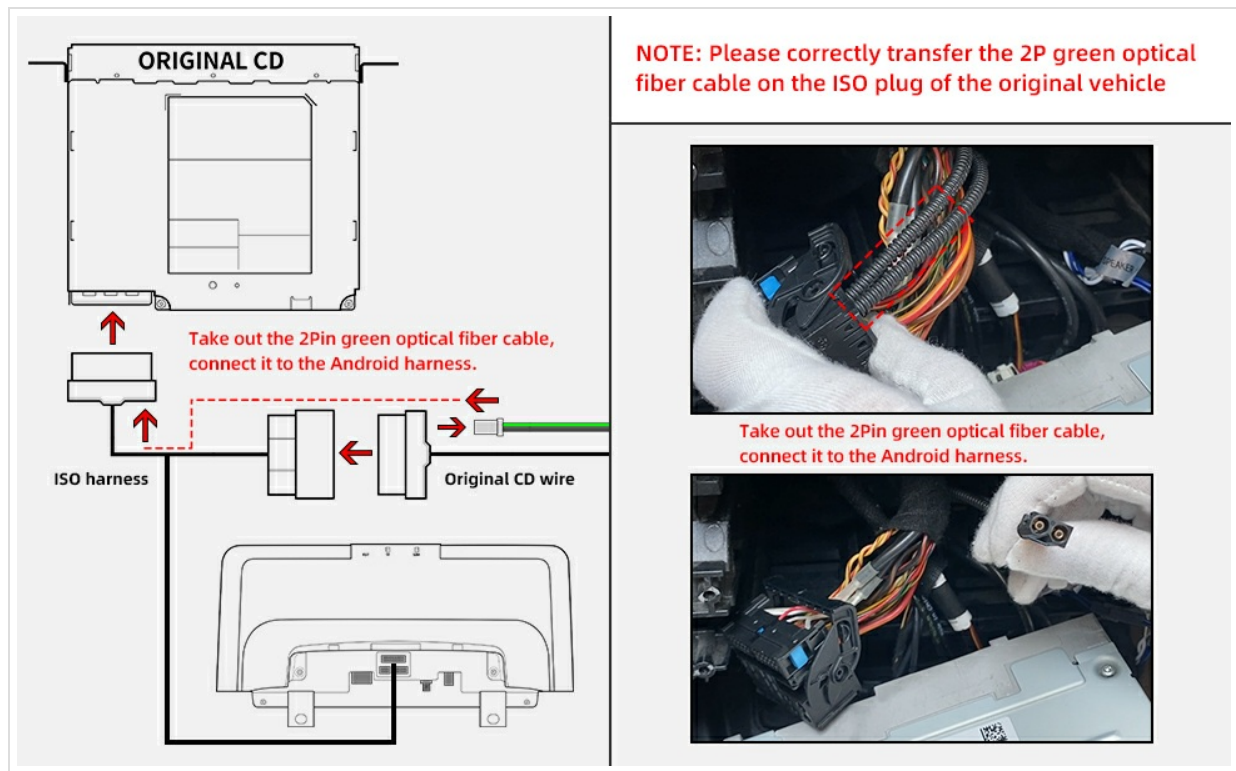


Figure 4.1: Verifying AUX menu availability.

### 4.3. Step-by-Step Installation

For a visual guide, please refer to the official installation video below. Always ensure the vehicle's power is off before beginning any installation steps.

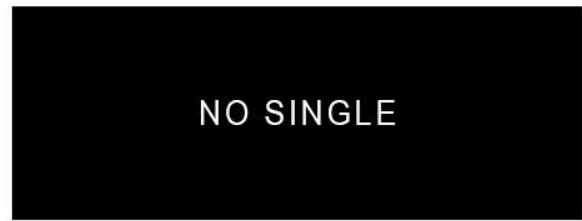
Video 4.1: How to install the BMW X3 E83 Qualcomm Android multimedia system.

1. **Remove Air Conditioning Decorative Panel:** Carefully pry and remove the air conditioning decorative panel. Disconnect any plugs on the back and set the panel aside.
2. **Remove Central Storage Box:** Remove the fixing screw of the central storage box and then remove it.
3. **Remove Original Car Host:** Remove the fixing screws of the original car host. Pull the host outwards, take it out, pinch the buckle of the harness, pull it back, and then take out the power harness.
4. **Route Cables:** Pass the 4G antenna, GPS antenna, and USB cable through the passenger seat storage box to the back of the Android device.
5. **Connect iDrive Box (if applicable):** Connect the wire of the iDrive box and install it.
6. **Connect Android Harness:** Connect the Android harness, 4G antenna harness, GPS antenna harness, and USB harness to the back of the Android device. Connect the original LVDS cable to the Android device.
7. **Install Android Device:** Install the Android device to the original car and fix it.
8. **Reinstall Original Host:** Install the original host back to its position. Lock and fix the original host.
9. **Restore Panels:** Restore the connection plugs on the back of the air conditioner panel and put the air conditioner panel back in place.

### 4.4. Troubleshooting Installation Issues

If you encounter a "NO SIGNAL" message after installing the Android device, follow these steps:

- Touch the car info menu.
- Go to **Factory Settings > System > Vehicle**.
- Select **Car without OEM Monitor**. (Factory password can be found in the manual).



After installing Android device, Touch the car info menu  
There is **NO SIGNAL** displayed.

Solution: Select the Car without OEM Monitor in FACTORY SETTINGS

Steps: **Factory Settings - Vehicle - Car without OEM Monitor**

(Factory password: Please check in the manual)

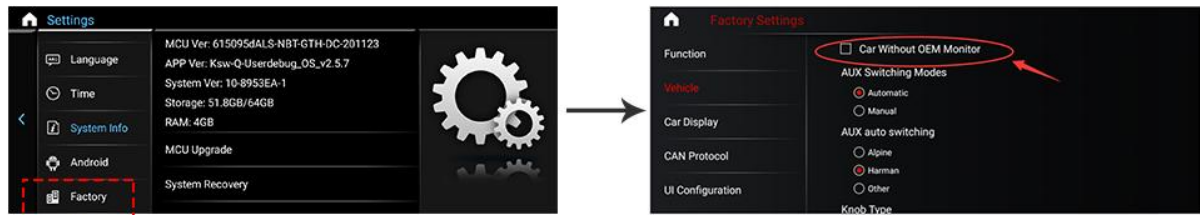
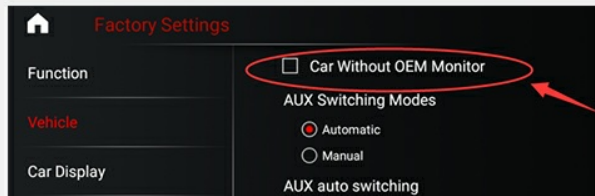


Figure 4.2: Resolving 'No Signal' display issue.

If the iDrive knob is not working, ensure you have selected the correct setting in Factory Settings **Factory Settings > System > Vehicle > Car Without OEM Monitor**. This setting is crucial if your car did not originally have an OEM screen.

## Connection of **two different style** knobs

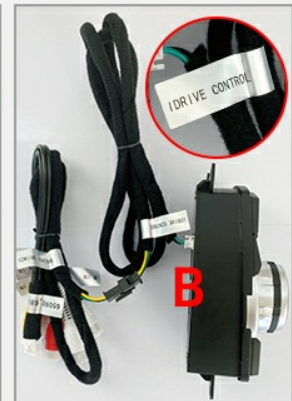


**if your has not the OEM screen, you must select the "Car Without OEM Monitor", Otherwise the knob will not work.**  
**Setting - Factory - Vehicle - Car Without OEM Monitor**



**Connection of A style knobs**

**A style knobs  
connected to ISO harness**



**Connection of B style knobs**

**B style knobs  
connected to RCA harness**

Figure 4.3: iDrive knob connection and settings.

## 5. OPERATING INSTRUCTIONS

### 5.1. Basic Operation

The PEMP Android monitor features a capacitive touch screen for intuitive control. You can also use the original iDrive knob (if installed) to navigate the Android interface.

## 5.2. Split Screen Function

The device supports split-screen functionality, allowing you to run two applications simultaneously.

- To activate split screen: In a music app, click the multi-function icon in the dropdown menu. Slide up/down to select an app, then drag it to the gray area on the left. Select another app from the right to complete the split screen.
- To exit split screen: Click in the middle of the screen and drag to the left to return to full-screen mode for the music app.

Video 5.1: Demonstration of the split screen function on Android 10.

## 5.3. Quick Launch Bar Customization

The main interface features a quick launch bar on the left with five small icons. You can customize three of these icons to quickly access your favorite applications.

- To add an app: Long-press a small icon on the quick launch bar. A page with available apps will pop up. Select the desired app (e.g., Google browser, ZLINK for CarPlay, Google Maps).
- Note: The top two icons on the quick launch bar are fixed and cannot be replaced.

Video 5.2: Customizing the quick launch bar with favorite apps.

## 5.4. Default Music/Video App Setting

You can set your preferred music and video applications as the default playback apps.

- Go to **Settings > System**.
- Scroll down to find **Select Music App** and **Select Video App**.
- Choose your desired app (e.g., Spotify for music, YouTube for video).

## 5.5. CarPlay and Android Auto Usage

The monitor supports wireless CarPlay and wired Android Auto for seamless smartphone integration.



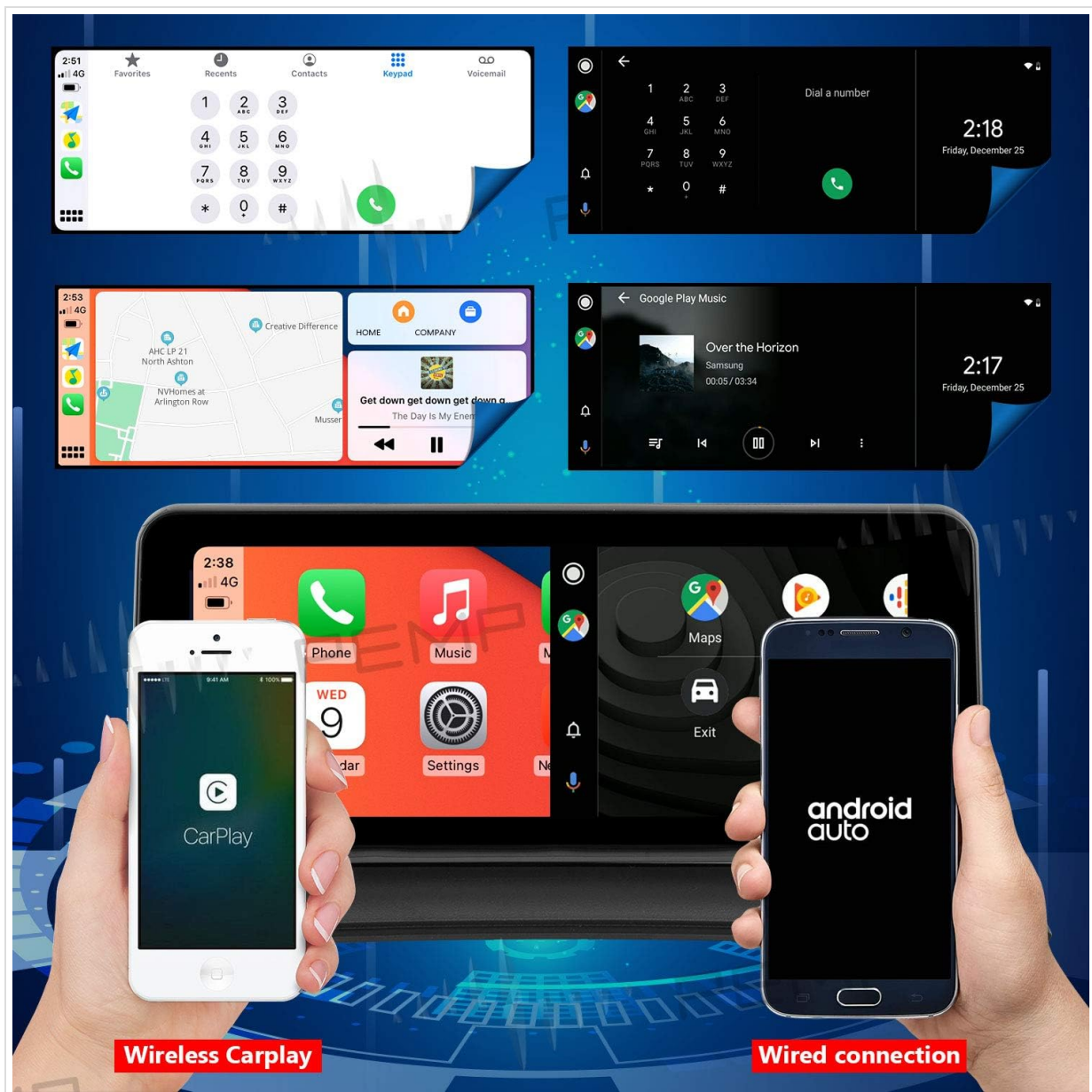


Figure 5.1: Wireless CarPlay and Wired Android Auto functionality.

## 5.6. Calling with OEM Bluetooth and CarPlay

When both OEM Bluetooth and CarPlay are connected, there might be an issue with call audio. If you cannot hear the other person's voice during a call, you need to manually select the sound source from your mobile phone to OEM Bluetooth.

- If you disconnect the OEM Bluetooth, you do not need to set the sound source on the mobile phone when making a call.
- If you select Android Bluetooth, you cannot hear the normal call.

Video 5.3: Resolving call audio issues when using OEM Bluetooth and CarPlay simultaneously.

## 6. MAINTENANCE AND CARE

### 6.1. General Cleaning

Use a soft, dry cloth to clean the screen and exterior of the device. Avoid using harsh chemicals or abrasive materials.

### 6.2. Software Updates

PEMP continuously works to improve its products. If you wish to upgrade the system, please contact PEMP support via email. They will provide the upgraded software as soon as possible.

Video 6.1: Overview of system updates and design improvements.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your PEMP Android monitor.

- **No Audio:** Ensure your vehicle has an AUX port and it is correctly selected as the audio input. If your E83 does not have an AUX port, audio from the Android system will not work.
- **iDrive Knob Unresponsive/Sticky:** This can be a hardware issue. Ensure proper installation and connection. If the issue persists, contact support.
- **DVR Function Not Working:** Some users have reported issues with the DVR function. Ensure cameras are connected to the correct input (e.g., 'TV in' instead of 'Aux in') and check app settings.
- **App Permissions Resetting:** Some apps (e.g., Spotify, Amazon Music) may require re-setting background permissions after the car is turned off. This is a software-related issue.
- **Distortion Noises through Car Speakers:** If you hear distortion when the BMW radio is off, but not when playing music, it might be related to the auxiliary cord connection. Ensure the auxiliary adapter is functioning correctly.

## 8. SPECIFICATIONS

Feature	Specification
Item Weight	4.4 pounds (2 Kilograms)
Item Model Number	AL-6283D
Display Size	10.25 Inches
Display Resolution	1280x480
Voice Command	Touchscreen
Connectivity Technology	Wi-Fi
Controller Type	Android App
Special Feature	Built-In Bluetooth, Touchscreen
Compatible Devices	Smartphone
Connector Type	3.5mm Jack, RCA, USB
Audio Output Mode	Stereo
Color	Black
Output Power	2 Watts

## 9. WARRANTY AND SUPPORT


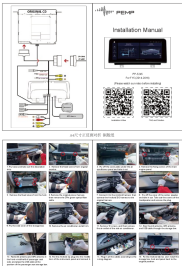
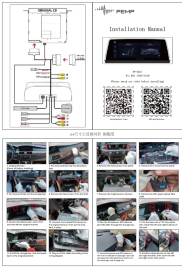
### 9.1. Warranty Information

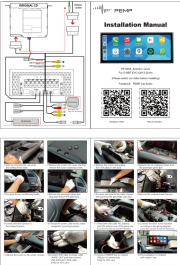

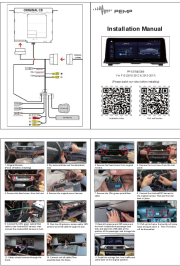
This product comes with a one-year warranty covering non-artificial damage.

9.2. Customer Support

For any questions, suggestions, or software upgrade requests, please contact PEMP customer support via email. Your feedback is valued, and the support team will respond as soon as possible to ensure your satisfaction and improve the product.

Related Documents - AL-6283D

	<p><a href="#">PEMP User Manual: Navigating Your Device Interface and Settings</a></p> <p>Comprehensive user manual for PEMP devices, detailing interface navigation, setup options, connection methods for Carplay, Android Auto, Airplay, and Bluetooth, along with audio and display settings.</p>
	<p><a href="#">PEMP PP-5245 Installation Manual for BMW F15 (2014-2016)</a></p> <p>Step-by-step installation guide for the PEMP PP-5245 car navigation system, compatible with BMW F15 models from 2014 to 2016. Includes wiring overview and detailed visual instructions.</p>
	<p><a href="#">PEMP PP-5810 Installation Manual for BMW E60 (2005-2010)</a></p> <p>Detailed installation manual for the PEMP PP-5810 aftermarket car stereo system, designed for BMW E60 models from 2005 to 2010. Includes step-by-step instructions and wiring diagrams.</p>

	<p><a href="#">PEMP PP-5603 Car Infotainment System Installation Guide for BMW i3 NBT EVO</a></p> <p>Comprehensive installation manual for the PEMP PP-5603 Android/Linux car infotainment system, compatible with BMW i3 NBT EVO (2013-2019) models. Includes step-by-step instructions and system connection details.</p>
	<p><a href="#">PEMP B-C-EVO Installation Manual for Automotive Multimedia Interface</a></p> <p>Comprehensive installation guide for the PEMP B-C-EVO automotive multimedia interface. Learn how to connect and install the device in your vehicle with step-by-step instructions and wiring diagrams.</p>
	<p><a href="#">PEMP PP-537885388 Installation Manual for BMW F10</a></p> <p>Detailed installation manual for the PEMP PP-537885388 car multimedia system, compatible with BMW F10 models (2010-2012 &amp; 2013-2017). Includes wiring diagrams and step-by-step visual guides.</p>