ED-HMI3010-070C

Application Guide

EDA Technology Co., LTD

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Contact Us

Thank you very much for purchasing and using our products, and we will serve you wholeheartedly.

As one of the global design partners of Raspberry Pi, we are committed to providing hardware solutions for IOT, industrial control, automation, green energy and artificial intelligence based on Raspberry Pi technology platform.

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Foreword

Related Manuals

All kinds of product documents contained in the product are shown in the following table, and users can choose to view the corresponding documents according to their needs.

Documents	Instruction
ED-HMI3010-070C Datasheet	This document introduces the product features, software and hardware specifications, dimensions and ordering codes of ED-HMI3010-070C to help users understand the overall system parameters of the products.
ED-HMI3010-070C User Manual	This document introduces the appearance, installation, startup and configuration of ED-HMI3010-070C to help users use the product better.
ED-HMI3010-070C Application Guide	This document introduces the OS download, SD flashing and open/close device case of ED-HMI3010-070C to help users use the product better.

Users can visit the following website for more information:

https://www.edatec.cn

Reader Scope

This manual is applicable to the following readers:

◆　Mechanical Engineer

◆　Electrical Engineer

◆　Software Engineer

◆　System Engineer

Related Agreement

Symbolic Convention

Symbolic	Instruction
	Prompt symbols, indicating important features or operations.
	Notice symbols, which may cause personal injury, system damage, or signal interruption/loss.
	Warning symbols, which may cause great harm to people.

Safety Instructions

◆ This product should be used in an environment that meets the requirements of design specifications, otherwise it may cause failure, and functional abnormality or component damage caused by non-compliance with relevant regulations are not within the product quality assurance scope.

◆ Our company will not bear any legal responsibility for personal safety accidents and property losses caused by illegal operation of products.

◆ Please do not modify the equipment without permission, which may cause equipment failure.

◆ When installing equipment, it is necessary to fix the equipment to prevent it from falling.

◆ If the equipment is equipped with an antenna, please keep a distance of at least 20cm from the equipment during use.

◆ Do not use liquid cleaning equipment, and keep away from liquids and flammable materials.

◆ This product is only supported for indoor use.

Content

1 Install OS

This chapter introduces how to download OS file and flash SD card.

- ✓ Download OS File

- ✓ Flash SD Card

1.1 Download OS File

If the operating system is damaged during use, you need to re-download the latest version of the system image and flash it. The download path is: ED-HMI3010-070C/raspios.

1.2 Flash SD Card

ED-HMI3010-070C starts the system from the SD card by default. If you need to flash the latest system, you need to flash the system image to the SD card. It is recommended to use the official Raspberry Pi flashing tool, and the download path is as follows:

Raspberry Pi Imager : https://downloads.raspberrypi.org/imager/imager_latest.exe

Preparation:

◆ The download and installation of the flashing tool to the computer has been completed.

◆ A card reader has been prepared.

◆ The OS file to be flashed has been obtained.

◆ The device case has been opened and the SD card of ED-HMI3010-070C has been obtained. For detailed operations, please refer **2.1 Open Device Case** to **2.2 Pull Out SD Card** and.

Steps:

The steps are described using Windows system as an example.

1. Insert the SD card into the card reader, and then insert the card reader into the USB port of PC.

2. Open **Raspberry Pi Imager**, select "CHOOSE OS" and select "Use Custom " in the pop-up pane.
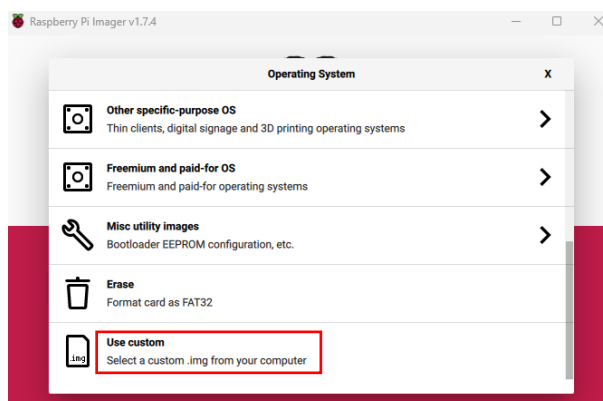
3. According to the prompt, select the downloaded OS file under the user-defined path and return to the main interface.

4. Click "CHOOSE STORAGE", select the SD card of ED-HMI3010-070C in the "Storage"
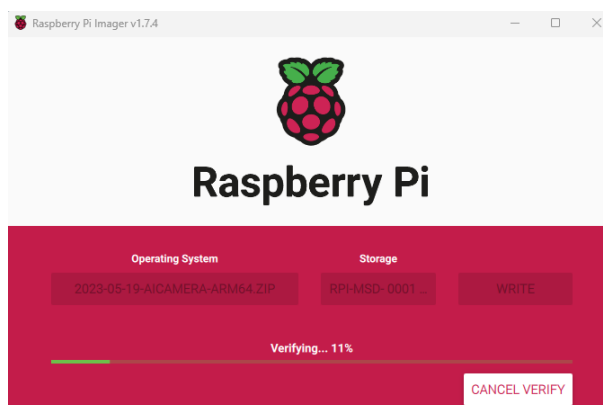
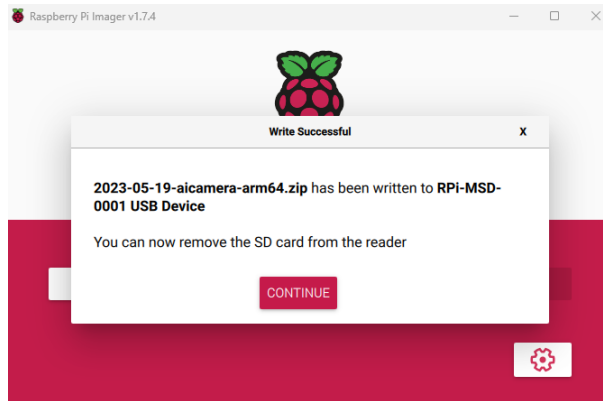interface, and return to the main interface.
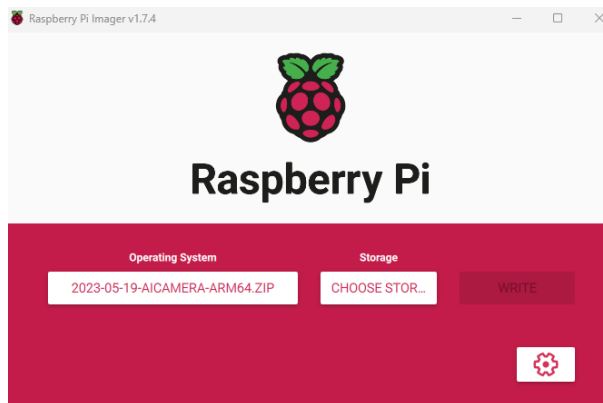
5. Click "WRITE" and select "Yes" in the pop-up prompt box to start writing the OS.

6. After the OS writing is completed, the file will be verified.

7. After the file verification is completed, the prompt box "Write Successful" pops up, and click "CONTINUE" to finish flashing SD card.

8. Close **Raspberry Pi Imager**, remove the card reader.

9. Insert the SD card into the Raspberry Pi 5 and close the device case (for detailed operations, please refer to **2.3 Insert SD Card** and **2.4 Close Device Case**), and then power on again.

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2 Open and Close Case

This chapter introduces the operations for opening/closing the device case and inserting/removing the SD card.

- ✓ Open Device Case
- ✓ Pull Out SD Card
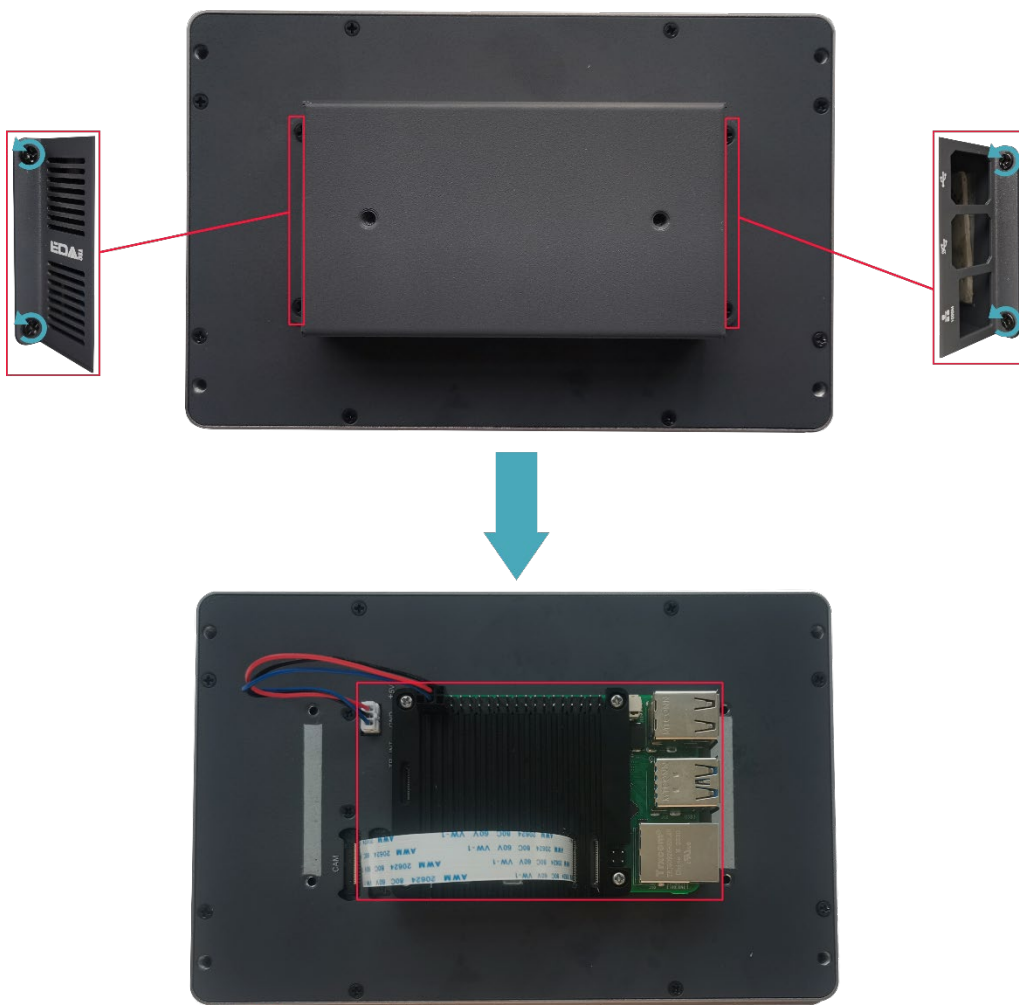- ✓ Insert SD Card
- ✓ Close Device Case

2.1 Open Device Case

Preparation:

A cross screwdriver has been prepared.

Steps:

Use a screwdriver to loosen the 4 M3 screws on the ED-HMI3010-070C metal case counterclockwise, and remove the metal case, as shown in the figure below.
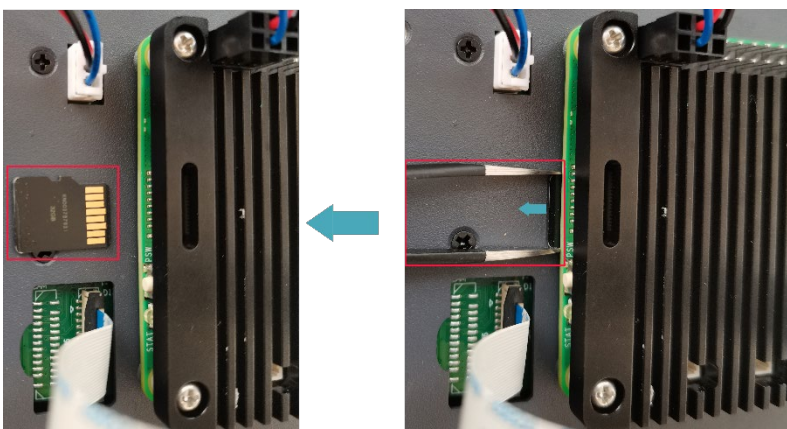
2.2 Pull Out SD Card

Preparation:

◆ The device case has been open.

◆ A pair of tweezers is ready.

Steps:

1. Find the location of the SD card, as shown in the figure below.

2. Use tweezers to hold the SD card and pull it out.

2.3 Insert SD Card

Preparation:

◆ The device case has been open.

◆ SD card has been pulled out.

Steps:

1. Find the location of the SD card slot, as shown below the red box.

2. Insert the SD card into the corresponding card slot with the contact side facing up, making sure it will not fall out.

2.4 Close Device Case

Preparation:

A cross screwdriver has been prepared.

Steps:

Cover the case, insert 4 M3 screws, and tighten clockwise to secure the case.