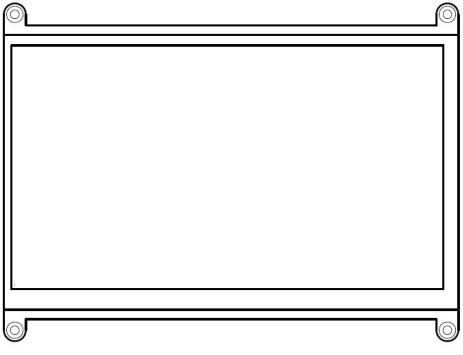
ELECROW

ELECROW 7 Inch HDMI Touchscreen Monitor

Model: RC070N



USER MANUAL

Customer Support:

Should there be any questions, please feel free to let us know and contact us with your purchase order number at *info@elecrow.com*.

Table of Contents

Chapter 01: Before Using the Product 2

1-1. Packing Contents 2

1-2. Product Description 2

1-2-1. Port Description 3

Chapter 02: Connecting and Using a Source Device 4

2-1. Connected to Raspberry Pi 4

2-1-1. Preparations 4

2-1-2. How to Use with Raspbian/ Ubuntu Mate/ Retropie/ Kali System 4-7 4

2-1-3. Connect the Monitor to Raspberry Pi and Power the Raspberry Pi 7-9 7

2-2. Connected to PC/Laptop (with HDMI Port) 9

Chapter 03: Troubleshooting Guide and Warranty 10

3-1. Troubleshooting Guide 10

3-2. Warranty 11

3-3. Custormer Support 11

Chapter 04: Specifications 11

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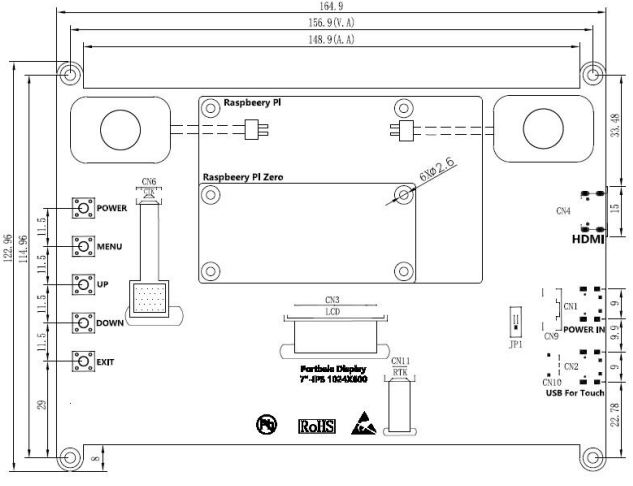
Chapter 01 Before Using the Product

1-1. Package Contents

- 1 x 7 Inch Monitor
- 2 x USB to Type-C USB Cable (for connecting PC)
- 1 x HDMI to MINI HDMI Cable (for connecting PC)
- 4 x M2.5 Screws (to mount RPI)
- 4 x Small Copper Pillars (to support RPI)
- 2 x Speakers
- 1 x User Manual

1-2. Product Description



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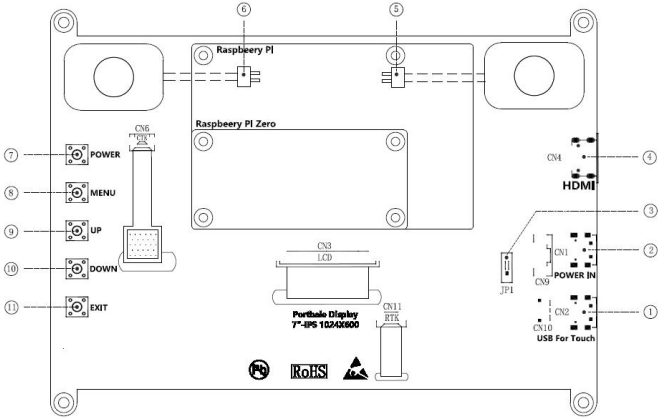
1-2-1. Port Description



① **Type C USB Interface (Touch)**: Connects to the device for touch function and power supply

② **Type C USB Interface (Power)**: Connects to the device for (main)power supply.

③ **Slide Switch (Power)**: Connects to touch power supply to main power supply.

④ **MINI HDMI Interface (Display):** Connects to a source device by using an HDMI cable.

⑤ & ⑥ **Speaker:** Connects to the speaker.

⑦ & ⑧ & ⑨ & ⑩ & ⑪ : For backlight & volume adjustment and power on/off.

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2-1. Connected to Raspberry Pi

2-1-1. Preparations

Number	Main Material	Quantity
1	Raspberry Pi Board (4B for example)	1pc
2	7 Inch Monitor	1pc
3	HDMI to Micro HDMI Connector	1pc
4	TF Card (above 8GB)	1pc
5	Card Reader	1pc
6	USB A to Type C USB Connect	1pc
7	5V/3A Power Adapter	1pc
8	Others	

2-1-2. How to Use with Raspbian/ Ubuntu Mate/ Retropie/ Kali System

Step 1. Download the Image

①Raspbian Image

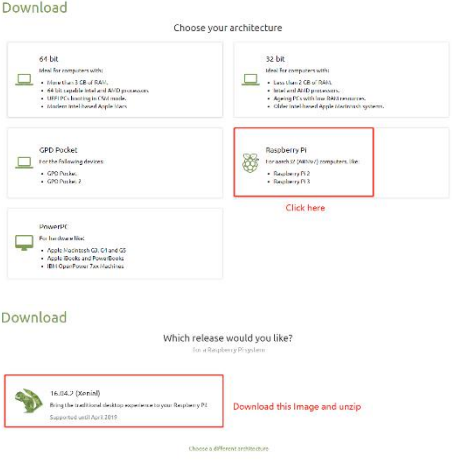
Image download Link: https://www.raspberrypi.org/downloads/raspbian/

User: **pi** Password: **raspberry**

Please download the latest Image for Raspberry Pi 4B

②Ubuntu Mate Image

Image download Link: https://ubuntu-mate.org/download/#xenial



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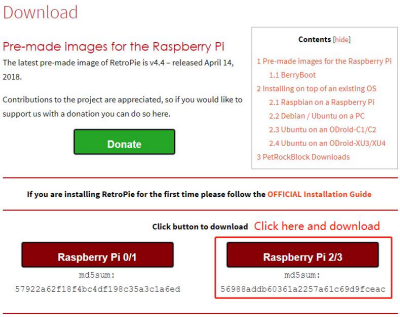
③Retropie Image

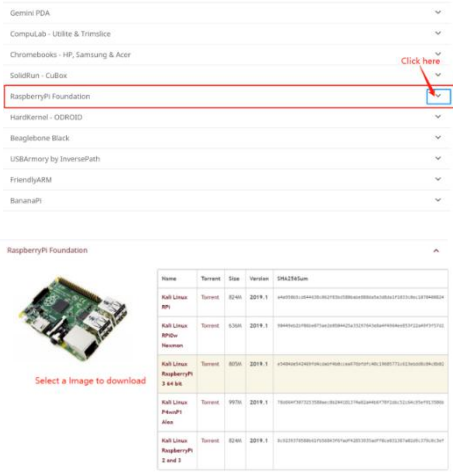
Image download Link: https://retropie.org.uk/download/



④Kali Image

Image download Link: https://www.offensive-security.com/kali-linux-arm-images/

User: root Password: **toor**



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Step 2. Download and Install the Burning Tool

①Download SD Card Formatting Tool (SDFormatter 5.0.1)

Link: https://www.sdcard.org/downloads/formatter_4/

②Download System Burning Tool (Win32DiskImager)

Link: https://sourceforge.net/projects/win32diskimager/

③Format SD Card

Insert the TF card into the card reader ➞ insert the card reader into the computer ➞ open the SDFormatter software ➞ select the memory card ➞ click Format ➞ pop up the box and click “Yes” or “OK” until the format succeeded

Step 3. Burn the Image to SD Card

Open Win32DiskImager software ➞ select downloaded image file(.img) ➞ select SD card ➞ click ”write” ➞ wait for burning completion, pop-up box click OK

Step 4. Modify the “config.txt”

Open the config.txt file of SD card root directory and add the following code at the end of the file, save and eject SD card safely:

```
hdmi_force_hotplug=1
max_usb_current=1
hdmi_group=2
hdmi_mode=1
hdmi_mode=87
hdmi_cvt 1024 600 60 6 0 0 0
hdmi_drive=2
```

Please commend out by adding # in the front of "dtoverlay = vc4-fkms-V3D" or delete this line in the config.txt file when working with Raspberry Pi 4.

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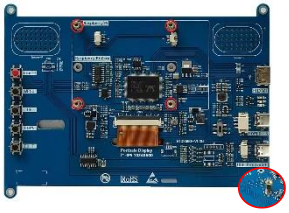
Step 5. Insert the SD Card into the Slot on the Back of the Raspberry Pi Motherboard.

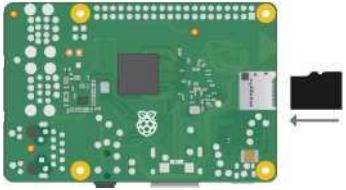
2-1-3. Connect the Monitor to Raspberry Pi and Power the Raspberry Pi

• Monitor Connected to Raspberry Pi 4B

1. Install the small copper pillars onto the mounting holes.



2.Mount the Raspberry Pi on the back of the screen with M2.5 screws.



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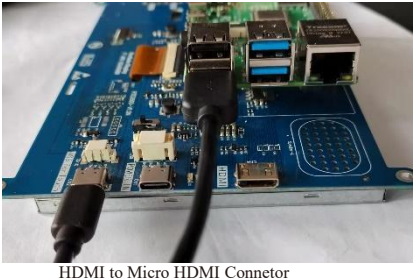
3.Connect the HDMI connector & USB connector firmly onto Raspberry Pi and monitor.

HDMI to Micro HDMI Conneto



HDMI to Micro HDMI Connetor

4. Power the Raspberry Pi

Note:

1. The Raspberry Pi cannot be powered on directly by powering the screen (neither 5V/2A nor 5V/3A).
2. Please connect the Power interface when powering the screen. If power is supplied to the screen through the touch interface, the touch screen will become insensitive, or even unusable.
3. When the speakers are turned on 80% or more, it is recommended to connect the power port (not touch port) to provide full power.

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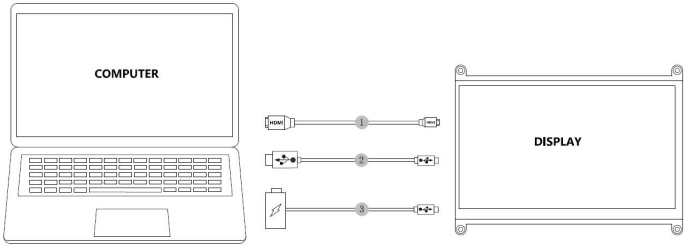
2-2. Connected to PC/Laptop (with HDMI Port)



① Mini HDMI (Dispaly) to HDMI cable ② Type C USB(touch port) to USB A ③ Type C USB (Touch/Power)

Note: Please note that when the monitor is connected to a game device or the monitor's touch end is connected to a power source, socket, or other power supply device, the touchscreen doesn't work.

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Chapter 03 Troubleshooting Guide and Warranty

3-1. Troubleshooting Guide

• This page deals with problems that can be corrected by a user. If the problem still persists after you have tried these solutions, please contact customer support.

Problems	Possible Solutions
Failure in writing system	Rewrite system and if problem still exists after rewriting then you SD card format might be wrong or SD card is defective.
SD card format error or SD card is defective	Wrong SD card format: Run SDFormatter.exe and format your card. Choose SD card in your computer and right click--choose property--make sure your SD card format is FAT32. If SD card is defective please change it to a new and functional one.
The monitor displays black or white screen or no full screen or showing white line	Make sure your image system is intact. Modify the configuration file config.txt.
The monitor flicks	Ensure sufficient power. Make sure the screen micro USB and Raspberry Pi USB connection is stable and try using another USB cable. Make sure the power adapter is 5V3A when used with Raspberry Pi 4. Power the monitor with one more USB cable and power adapter.
Touch Screen Issue	Make sure the Micro USB connector is properly connected between the USB ports of the Raspberry Pi and the Touch interface of the LCD screen. Try another micro USB cable (supports data transfer). Please note that one end of the touch cable needs to be connected to the Touch port of the monitor and the other end to the computer equipment, host computer, Raspberry Pi and other HDMI devices. When the monitor is connected to a game device or the monitor's touch end is connected to a power source, socket, or other power supply device, the touchscreen doesn't work.
The LCD cannot display normally when connected to PC	Adjust the output signal to HDMI. Make sure the operating system is Windows. Use the LCD as the only monitor for testing. Connect the USB power cable first and then the HDMI cable. Try to restart your computer.
The volume is too small	Considering the power supply voltage, we limit the maximum volume, so the sound is not so loud. If you need a loud volume in some situations, it's recommended that you can connect an external mini speaker to amplify the sound.

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3-2. Warranty

• ELECROW Monitors carry a one (1) year limited warranty from the purchase date. In order to receive warranty service, proof of purchase of the ELECROW product is required. To obtain warranty service, please contact Customer Support.

• This limited warranty does not cover for:
Improper installation or maintenance; Misuse or Neglect; Repair, modification, or installation of options or parts by you or any third party; Improper environment- Excessive or inadequate heating or air conditioning or electrical powers failures, surges or other irregularities; Fire, flood, earthquake or other accidents.

3-3. Customer Support

info@elecrow.com

@elecrow

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• If you have any questions, customer support is always stand by.

Chapter 04 Specifications

Model Name	RC070N
Panel Size	7 Inch
Interface	HDMI & USB
Resolution	1024x600(dots)
Touch Function	USB Capacitive Touch
Speaker	Support
Dimension	165*123(mm)
Net Weight (Esti.)	g

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