BIGTREETECH HDMI7 V1.2 Touch Screen Display User Manual

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Contents

Revision Log

Version	Date	Revisions
v1.00	15th August 2022	Initial Version
V2.00	1st November 2023	HDMI7 V1.0 was updated to HDMI V1.2 in November 2023 • Move the power interface and HDMI interface inside the screen to solve the problem of unsightly appearance of the wiring harness outside the screen range. • Increase the range of QR code ink.

Brief Introduction

BIGTREETECH HDMI7 V1.2 is a universal 7-inch HDMI display screen developed by the 3D printing team of Shenzhen Big Tree Technology Co., Ltd.

Main Features

- HDMI input, can work with Raspberry Pi.
- Connect to a PC, it can be used as a PC monitor.
- Adopt a 7-inch IPS capacitive touch screen with a resolution of 1024×600, support 5-point touch.
- Built-in audio decoding circuit, support 3.5mm headphone jack audio output.
- Support brightness and display direction adjustment.

Product Parameters

- **Product Dimension:** 100 x 165mm
- **Mounting Size:** 100 x 165mm, you can read more details here: BTT HDMI7_V1.2_SIZE
- **Power Input:** DC 5V

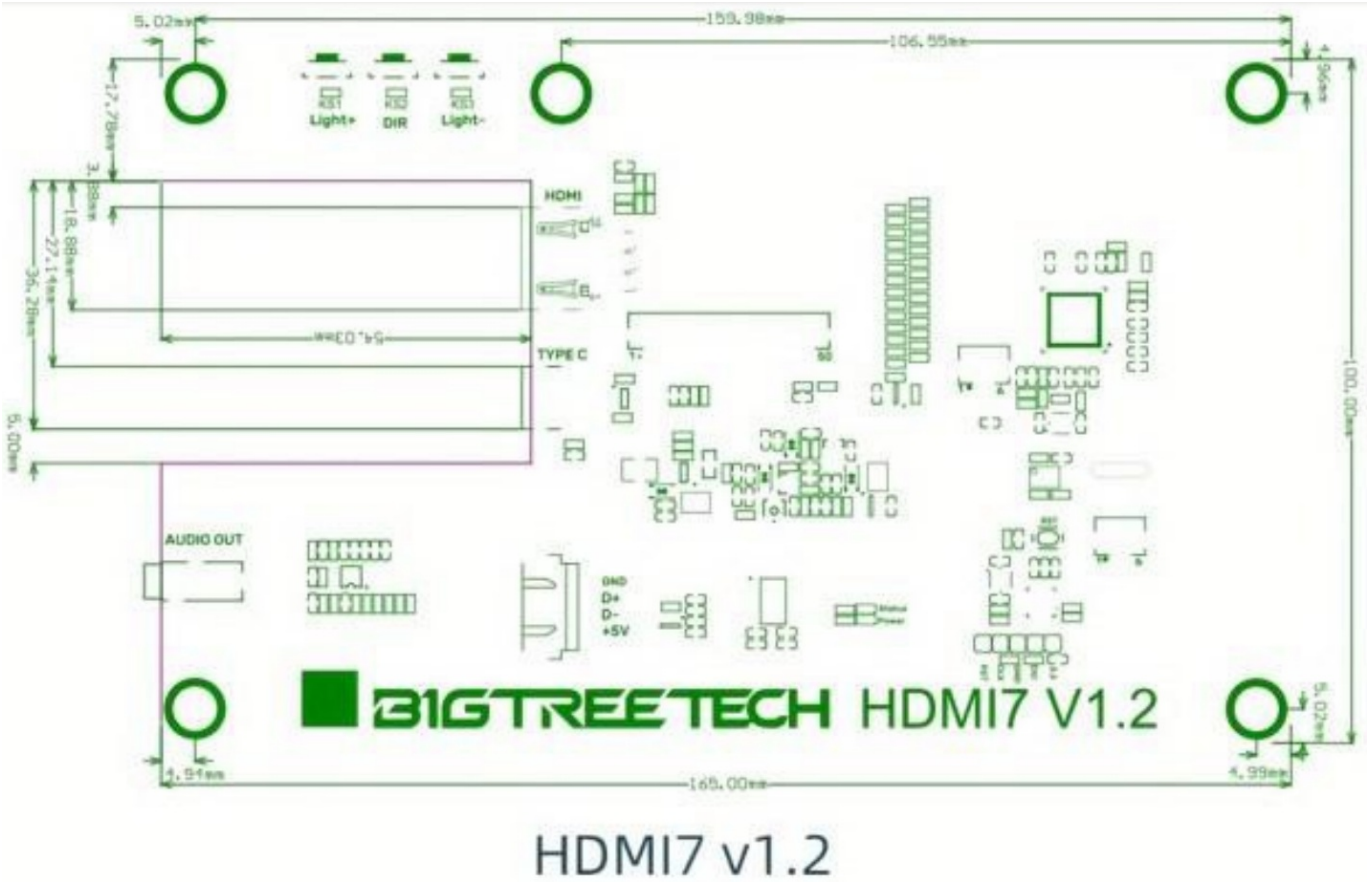
- **Logic Voltage:** DC 3.3V
- **Screen Size:** 7-inch IPS Display
- **Screen Resolution:** 1024×600
- **Screen Viewing Angle:** 160°

Indicator Light

When the motherboard is powered on:
The power indicator, D11(Power) red light, lights up, indicating that the power supply is functioning normally.
The working status indicator, D12(Status) green light, flashes, indicating that the screen is working normally.

Product Dimensions

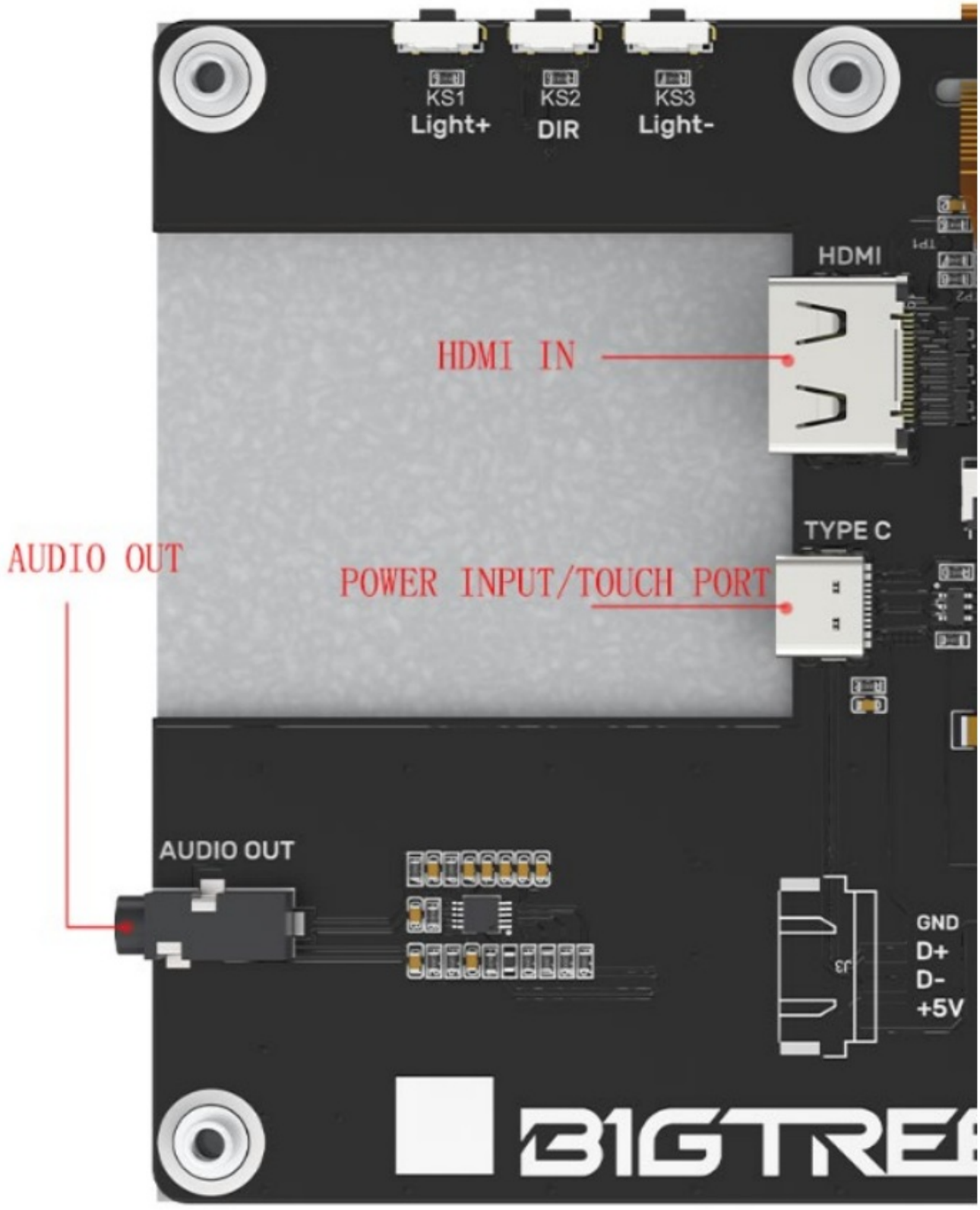
***You can read more details here:** BTT HDMI7_V1.2



HDMI7 v1.2

Peripheral Interface

Interface Diagram



Functions

Connecting to the Display Output Device

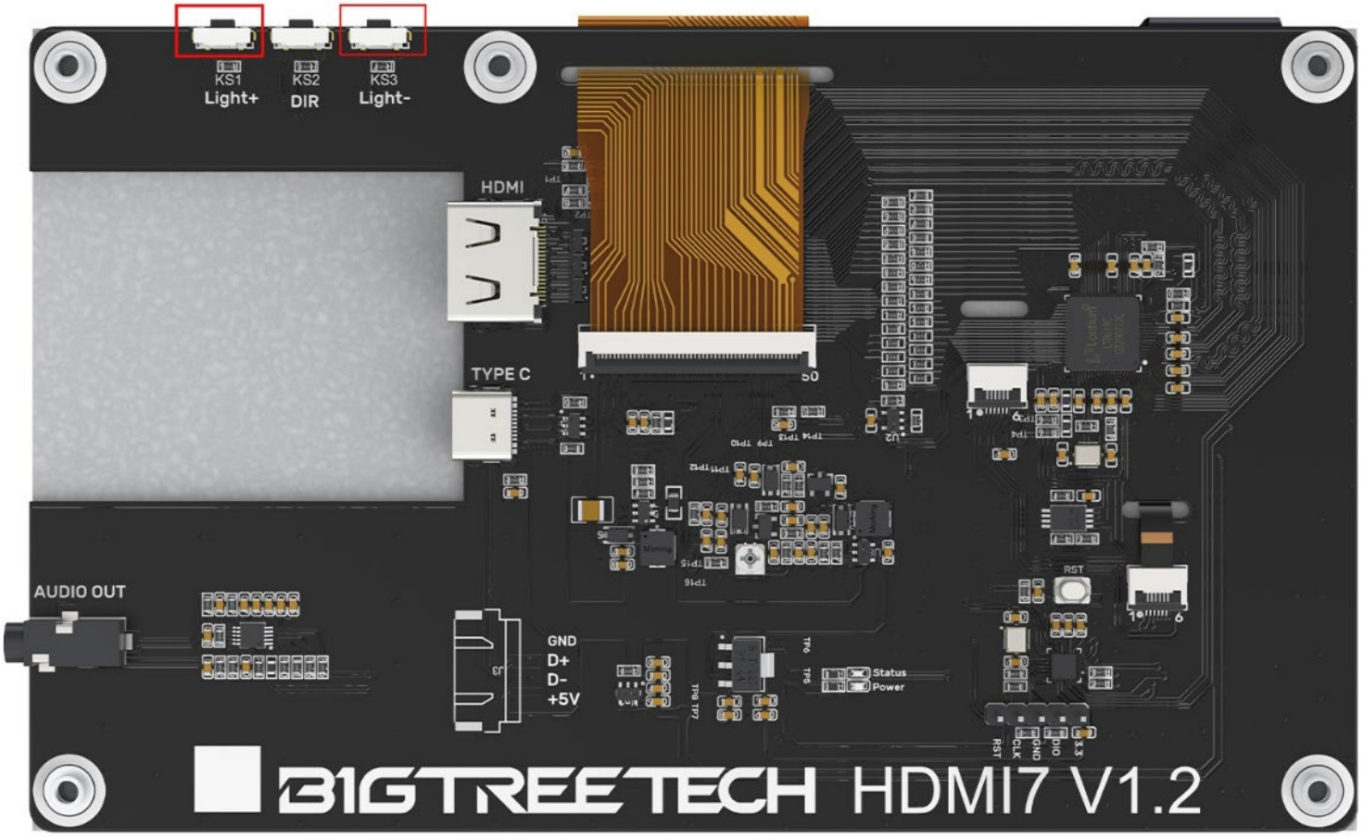
1. Use the Type C data cable to connect the HDMI7 to the display output device (compatible with Raspberry Pi/PC/other devices that support HDMI display output). When connecting to the PC, the PC will automatically load the driver under normal circumstances. After the driver is loaded, the touch device can be recognized.
2. Use the HDMI cable to connect HDMI7 to the display output device. Usually, after connecting the HDMI cable, the LCD can be displayed normally within 5 seconds.

Audio Out

Plug the 3.5mm earphone/speaker into the AUDIO interface to realize audio output.

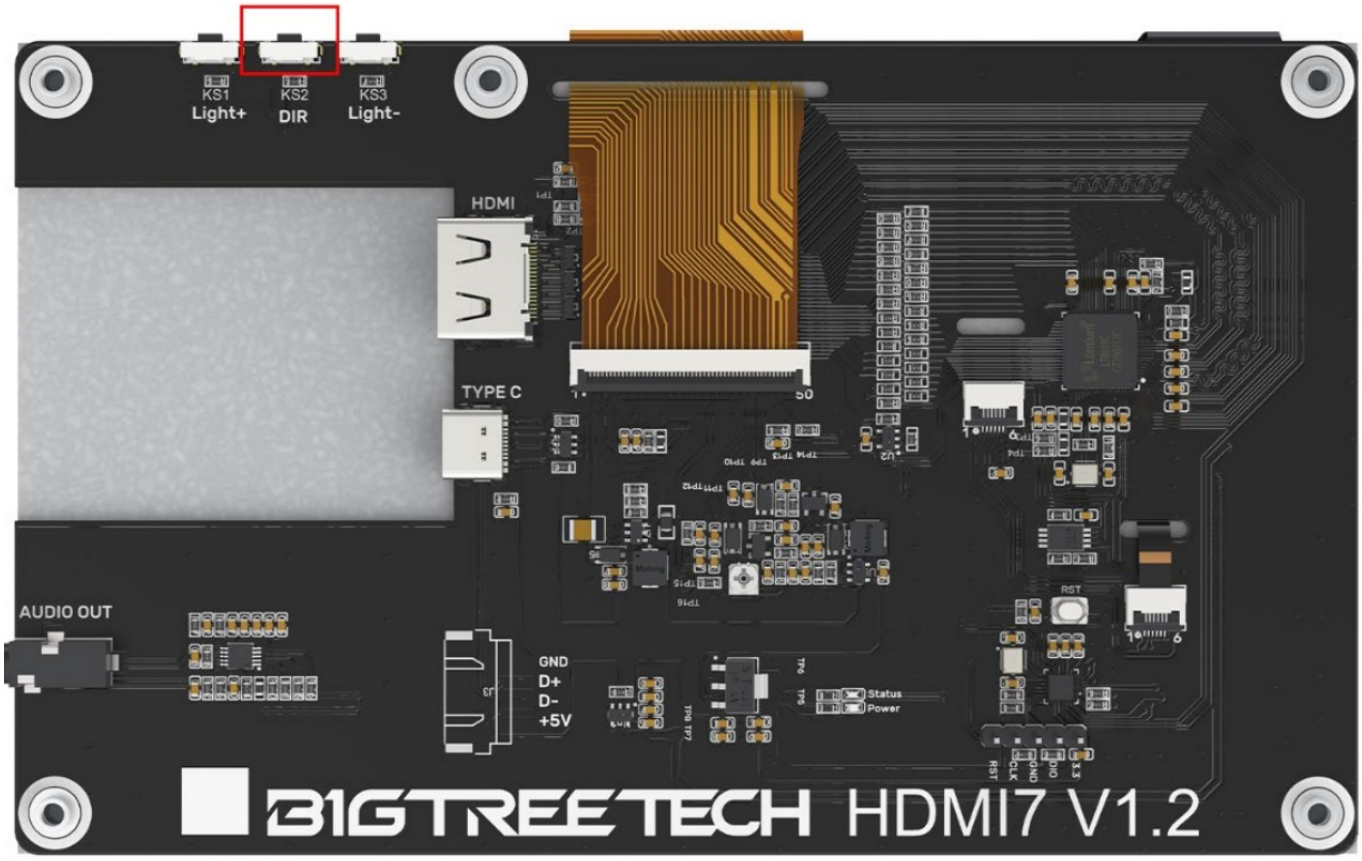
Screen Brightness Adjustment

BIGTREETECH HDMI7 V1.2 supports brightness adjustment, you can increase the brightness via the Ks1 button, and decrease the brightness via the Ks3 button.



Display Direction Adjustment

BIGTREETECH HDMI7 V1.2 supports horizontal display direction adjustment via the Ks2 button.



Working with Raspberry Pi

HDMI Display Output

1. **Download at Raspberry Pi official website:**
   Raspberry Pi OS with desktop
   Release date: April 4th 2022
   System: 32-bit
   Kernel version: 5.15
   Debian version: 11 (bullseye)
2. **Write the image to the TF card, then modify the following configuration in config.txt:**
   # uncomment to force a specific HDMI mode (this will force VGA)
   hdmi_group=2
   hdmi_mode=87
   hdmi_cvt 1024 600 60 6 0 0 0
   # uncomment to force a HDMI mode rather than DVI. This can make audio work in
   # DMT (computer monitor) modes hdmi_drive=1

HDMI Audio Output

1. **Raspberry Pi system version:**
   Raspberry Pi OS with desktop

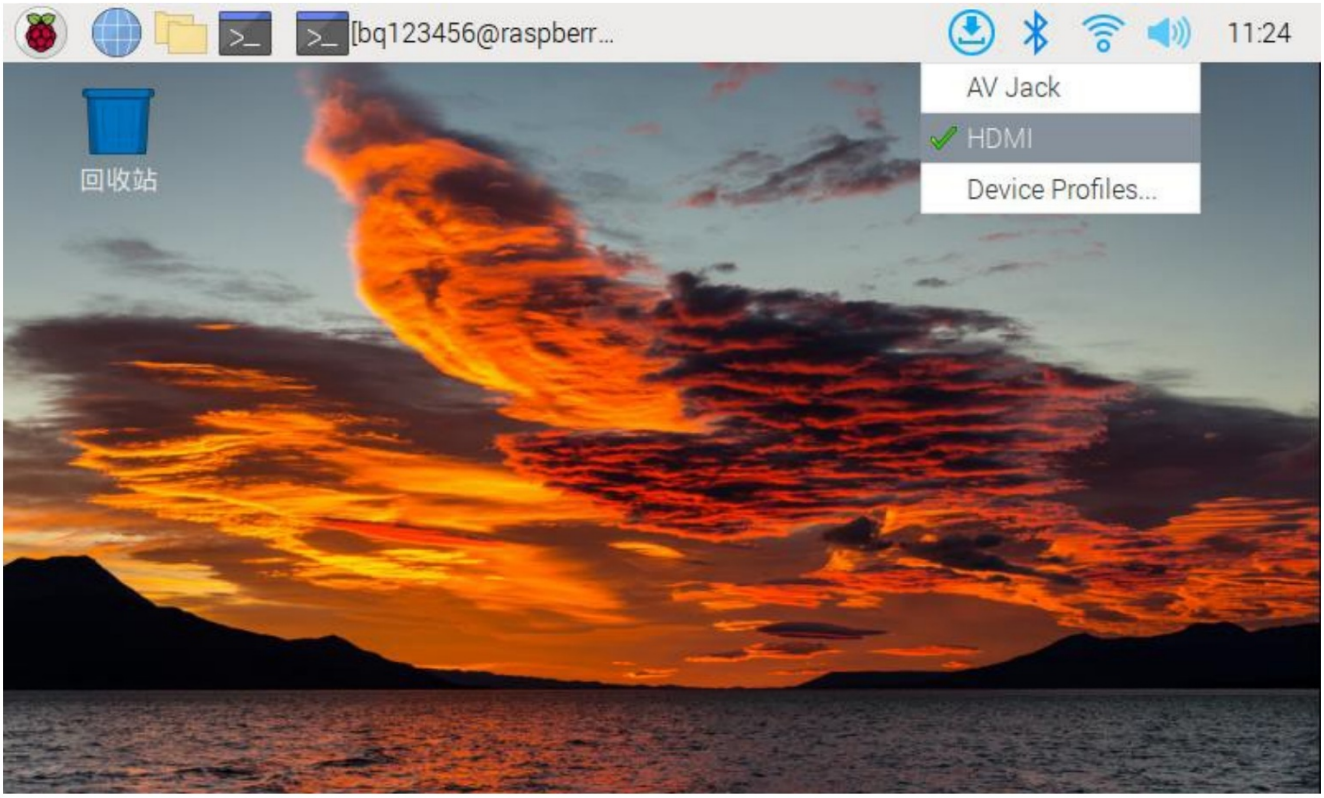
Release date: April 4th 2022

System: 32-bit

Kernel version: 5.15

Debian version: 11 (bullseye)

2. After entering the system desktop, right-click the audio source icon in the upper right corner, and select HDMI.



Documents / Resources

	BIGTREETECH HDMI7 V1.2 Touch Screen Display [pdf] User Manual HDMI7 V1.2 Touch Screen Display, HDMI7, V1.2 Touch Screen Display, Touch Screen Display, Screen Display, Display

References

- bigtreetech (BIGTREETECH) · GitHub
- User Manual