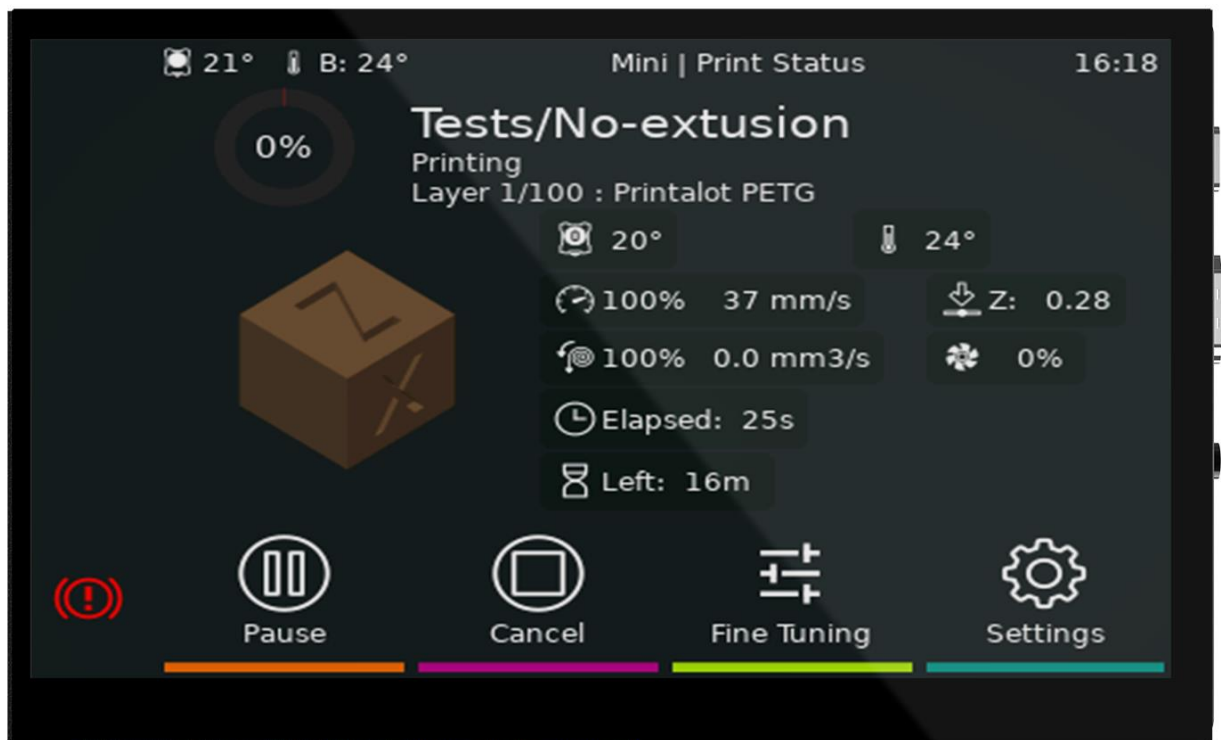


# BIGTREETECH HDMI5 V1.0

## User Manual



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## Revision History

Revision	Description	Date
01.00	First Draft	2022/08/09

## **1 Brief Introduction**

BIGTREETECH HDMI5 V1.0 is a universal 5-inch HDMI display screen developed by the 3D printing team of Shenzhen Big Tree Technology Co., Ltd.

### **1.1 Main Features**

1. HDMI input, can work with Raspberry Pi.
2. Connect to a PC, it can be used as a PC monitor.
3. The LCD adopts a 5-inch IPS capacitive touch screen with a resolution of 800x480.
4. Support 5-point touch.
5. Built-in audio decoding circuit, support 3.5mm headphone jack audio output.
6. Support brightness and display direction adjustment.

### **1.2 Product Parameters**

1. Product Dimension: 121 x 76mm
2. Mounting Size: 121 x 76mm, you can read more details here: **BTT HDMI5\_V1.0\_SIZE**
3. Power Input: DC 5V
4. Logic Voltage: DC 3.3V
5. Screen Size: 5-inch IPS Display
6. Screen Resolution: 800x480
7. Screen Viewing Angle: 160°

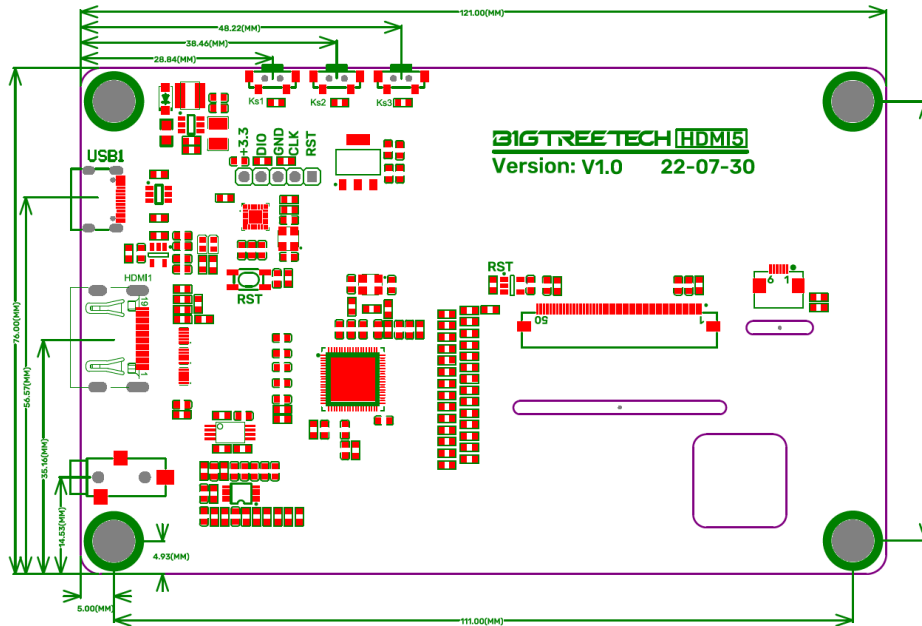
### **1.3 Indicator Light**

When the motherboard is powered on:

The power indicator, D6 red light, lights up, indicating that the power supply is functioning normally.

The working status indicator, D7 green light, flashes, indicating that the screen is working normally.

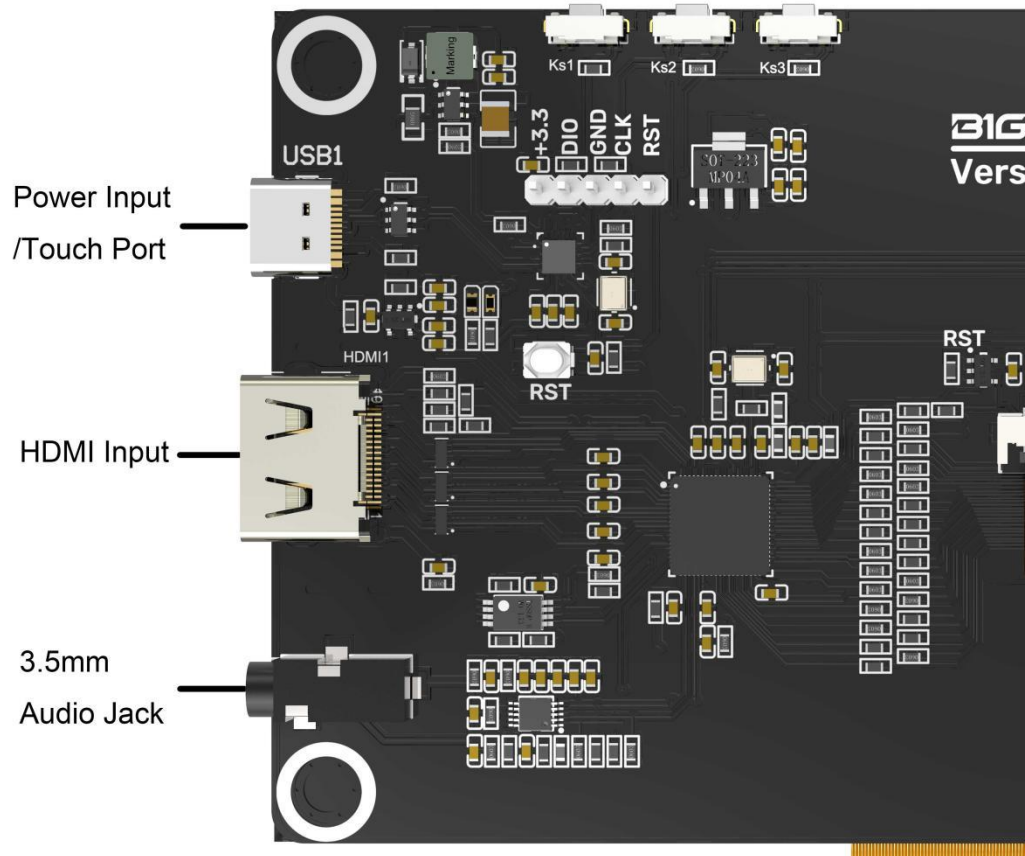
## 1.4 Product Dimensions



\*You can read more details here: [BTT HDMI5\\_V1.0\\_SIZE](#)

## 2 Peripheral Interface

### 2.1 Interface Diagram



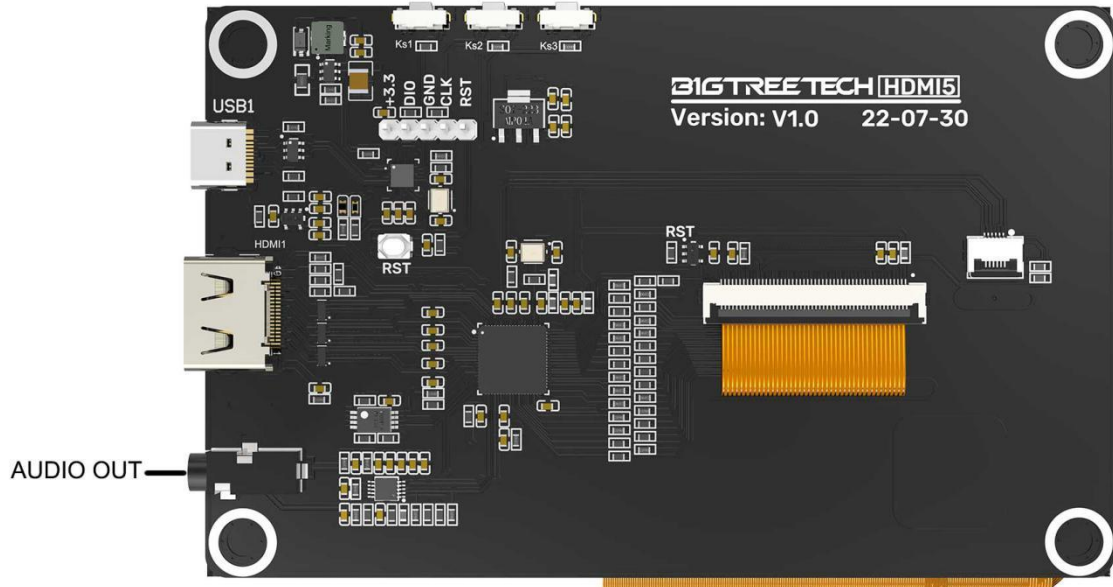
## 3 Functions

### 3.1 Connecting to the Display Output Device

1. Use the Type C data cable to connect the HDMI5 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 HDMI5 to the display output device. Usually, after connecting the HDMI cable, the LCD can be displayed normally within 5 seconds.

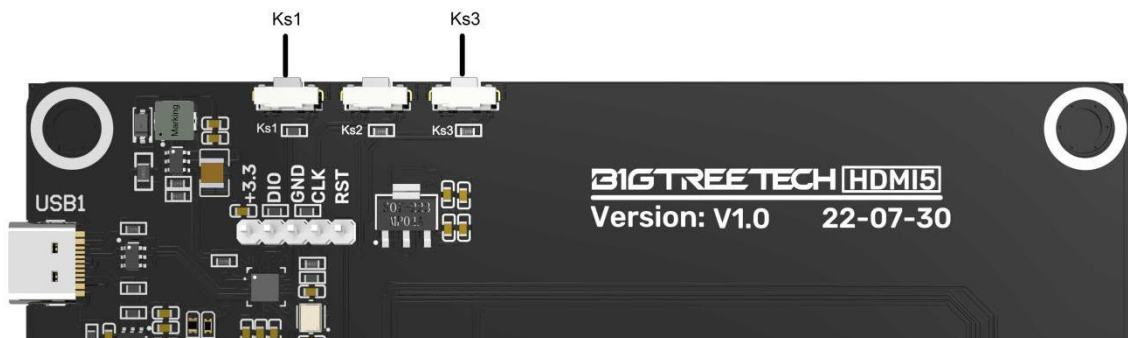
### 3.2 Audio Out

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



### 3.3 Screen Brightness Adjustment

BIGTREETECH HDMI5 V1.0 supports brightness adjustment, you can increase the brightness via the Ks1 button, and decrease the brightness via the Ks3 button.



### 3.4 Display Direction Adjustment

BIGTREETECH HDMI5 V1.0 supports horizontal display direction adjustment via the Ks2 button.





## 4 Working with Raspberry Pi

### 4.1 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 800 480 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
```

### 4.2 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.

