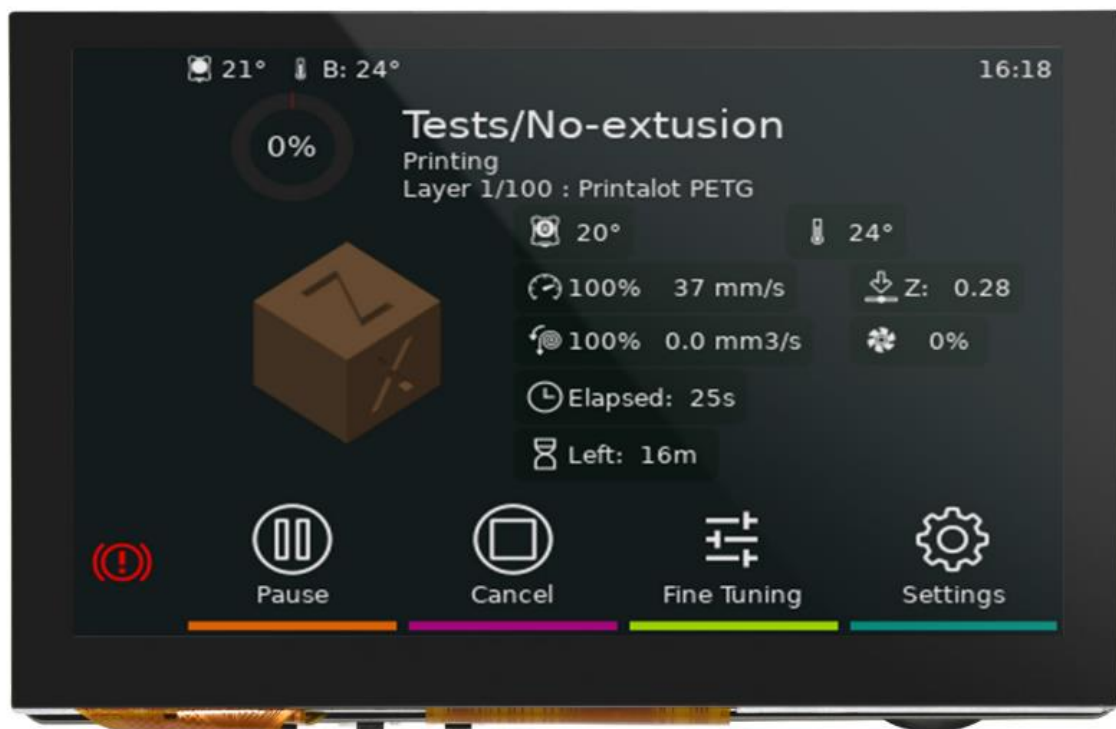


BIGTREE TECH

HDMI5 V1.2

User Manual



Revision Log

Version	Date	Revision
v1.00	May 29th, 2024	Initial Version
V1.01	September 17, 2025	Fix missing '=' in configuration

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1. Product Profile

The BIGTREETECH HDMI5 V1.2 is a 5-inch IPS touchscreen display featuring HDMI connectivity, with a 160-degree viewing angle, adjustable brightness and orientation, and a built-in speaker, it is ideal for use with Raspberry Pi and PCs.

1.1. Feature Highlights

- HDMI input for connecting devices like Raspberry Pi for human-machine interface screens.
- Functions as a PC monitor when connected to a computer.
- Features a 5-inch IPS capacitive touchscreen with a resolution of 800x480.
- Supports 5-point touch.
- Includes a built-in audio decoding circuit and speaker for sound output.
- Allows adjustments to brightness and display orientation for optimal viewing.

1.2. Specifications

Overall Dimensions: 121mm x 76mm

Installation Size: 121mm x 76mm (refer to **BTT HDMI5_V1.2_SIZE** for details)

Power Input: DC 5V

Logic Voltage: DC 3.3V

Screen Size: 5-inch IPS display

Screen Resolution: 800x480

Viewing Angle: 160-degree

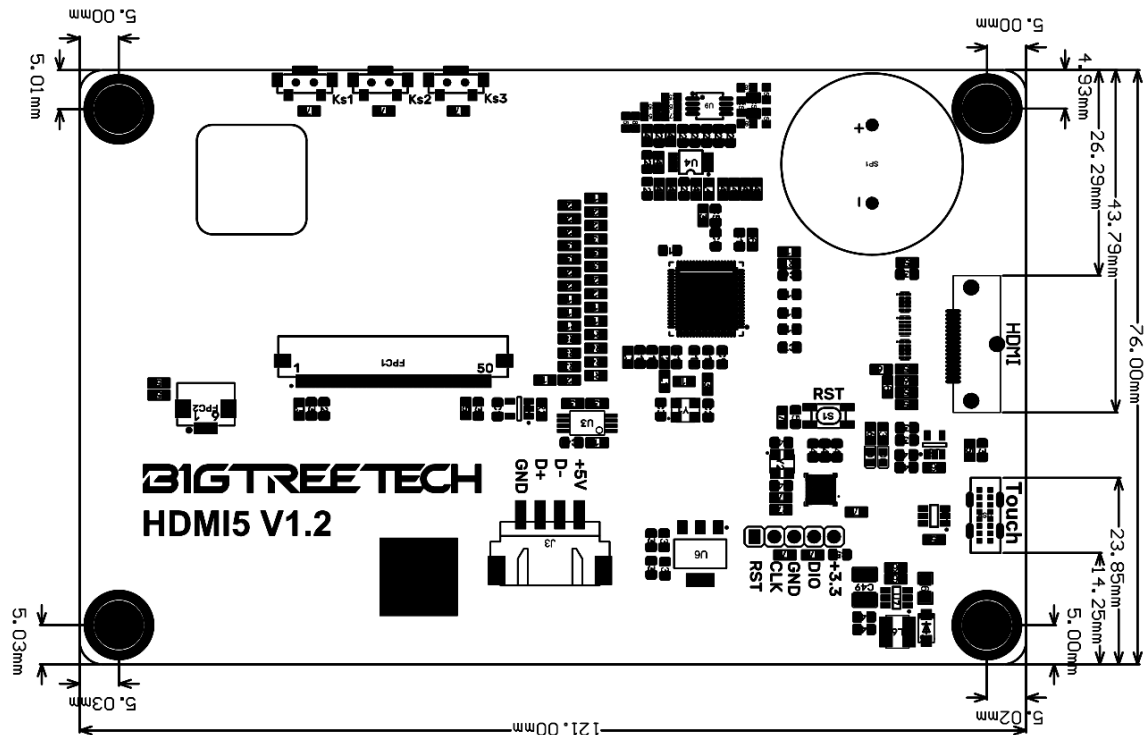
1.3. Motherboard Indicator Lights

Upon powering on:

D6 (the red light) serves as the power indicator: when illuminated, it signifies that the power supply is normal.

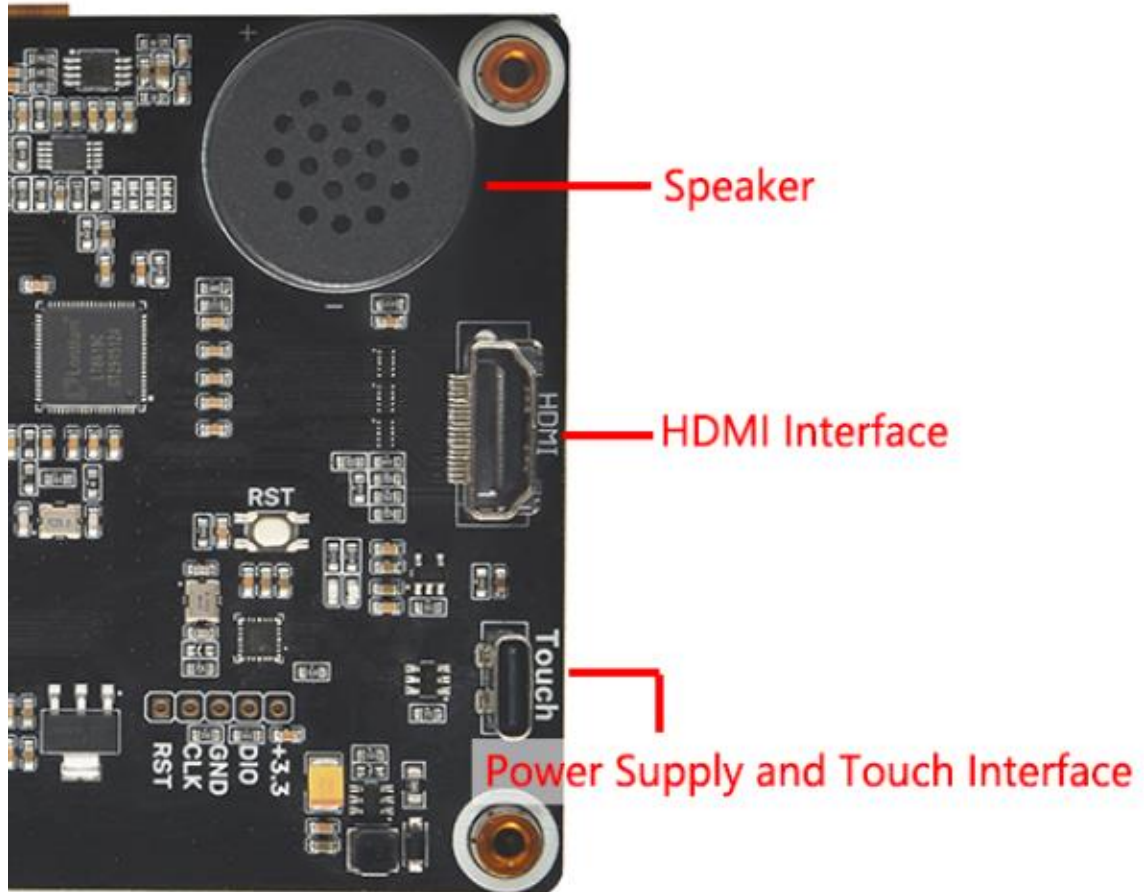
D7 (the green light) functions as the status indicator: it blinks when the screen is working normally.

1.4. Dimensions



2. Peripheral Interface

2.1. Interface Diagram



3. Function Introduction

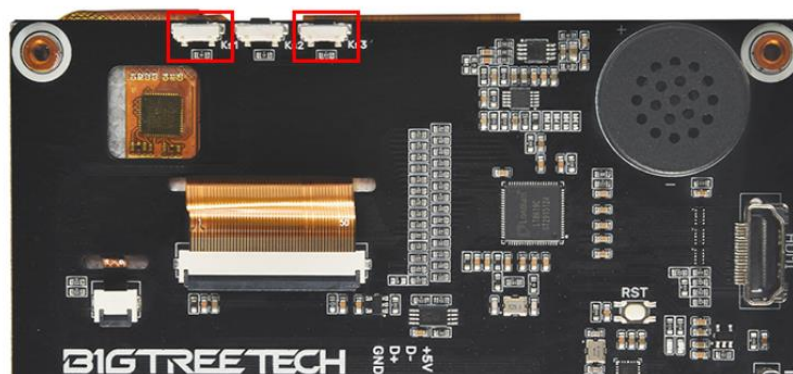
3.1. Connecting the Screen with Display Output Devices

Use a TYPE-C data cable to connect the HDMI5 V1.2 to a display output device such as a Raspberry Pi, PC, or other HDMI-supported devices. The PC will automatically load necessary drivers and recognize the touch device upon connection.

Connecting via an HDMI cable will typically result in the HDMI5 V1.2 displaying correctly within five seconds.

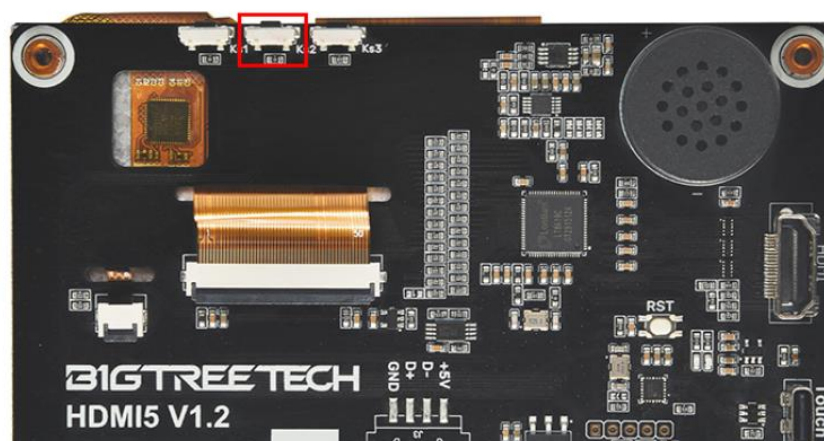
3.2. Screen Brightness Adjustment

You can adjust the screen brightness on the BIGTREETECH HDMI5 V1.2 by using the KS1 button to increase and the KS3 button to decrease the brightness.



3.3. Display Orientation Adjustment

Supports 180-degree horizontal adjustment. You can adjust the horizontal display direction by pressing the KS2 button.



4. Connecting Raspberry Pi for Use

4.1. HDMI Display Output

1. Obtain "Raspberry Pi OS with desktop" from the official Raspberry Pi website:
 - Release date: April 4th, 2022
 - System: 32-bit
 - Kernel version: 5.15
 - Debian version: 11 (bullseye)

2. After installing the OS on a TF card, make the following adjustments in the config.txt file:

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

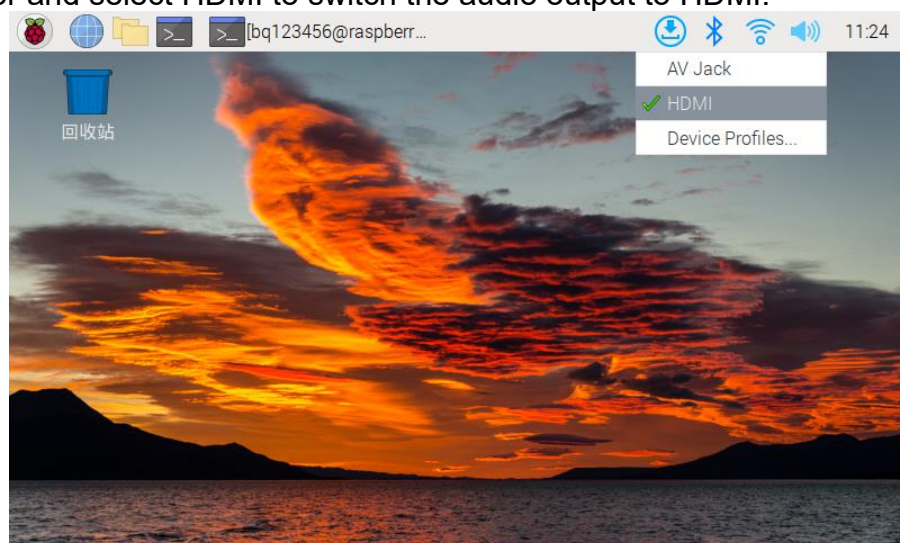
Uncomment to force a HDMI mode rather than DVI. This can make audio work within

DMT (computer monitor) modes

hdmi_drive=1

4.2. HDMI Audio Output

1. For system sound settings on Raspberry Pi OS with desktop:
 - Release date: April 4th, 2022
 - System: 32-bit
 - Kernel version: 5.15
 - Debian version: 11 (bullseye)
2. Navigate to the desktop system, right-click the audio icon in the top right corner and select HDMI to switch the audio output to HDMI.



If you need further resources for this product, you can find them at [GitHub] (<https://github.com/bigtreotech/>). If you cannot find what you need, you may contact our after-sales support (service005@biqu3d.com).

If you encounter any other problems during use or have suggestions or feedback, please contact us. Thank you for choosing BIGTREETECH products.