



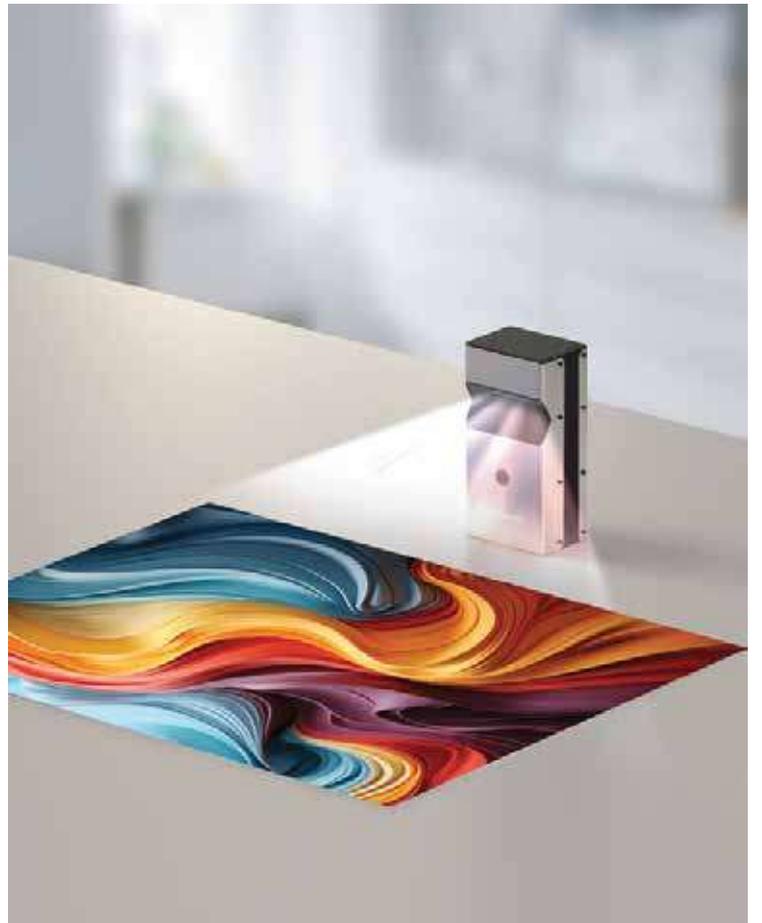
Powerology

**4K Ultra Short Throw
DLP Projector 2+16GB**

SKU: PUSHDLP

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Before installing and using the product, please carefully read this User Manual to guarantee correct usage and keep it secure for future reference.

Disclaimer

- 1.** The company is not liable for any damage resulting from fire, earthquakes, other natural disasters, third-party actions, accidents, intentional or negligent conduct by guests, misuse, or usage not recommended by the company.
- 2.** Our company is not responsible for any damages arising from incorrect operation or damages caused by the combination and compatibility with connected equipment.
- 3.** This product is not designed for use in medical, atomic energy, aerospace, or transportation equipment, or in any other settings requiring high reliability, such as safety and equipment control systems. Our company will not be liable for any personal accidents, fires, or any other incidents resulting from product failure in these environments.

General Precautions

Warning:

- 1.** Do not store or use this product in unstable conditions, such as in areas with excessive vibrations or on inclined surfaces, as it may fall and cause injury or malfunction.
- 2.** Keep the plastic bags used for packaging and cable bags away from children to prevent the risk of suffocation or injury.
- 3.** Do not use or store this product in poorly ventilated areas, near open flames, or flammable gases, as it may be a fire hazard.
- 4.** Avoid connecting the device to power sources that produce rectangular waves or to vehicle AC power supplies, as these could lead to fire risks.

- 5.** Use only the accessories, AC adapters, and power cords specified for this product to avoid malfunction, electric shock, or fire.
- 6.** Ensure the power cord and AC adapter are connected directly and securely to a wall socket or connector within the specified voltage range (100V to 240V). Poor connections can lead to malfunctions, electric shocks, or fires.
- 7.** Never unplug the power cord or AC adapter with wet hands to prevent the risk of electric shock.
- 8.** Avoid using the product when the wires are bundled together, as this may cause overheating and result in a fire hazard.

Notice:

- 1.** Avoid using and storing this product in environments with high levels of oil smoke, steam, or dust, such as near cooking areas, in humidifiers, bathrooms, or hot springs. Exposure to these conditions may lead to malfunction, electric shock, or fire.
- 2.** Do not place this product or the AC adapter in direct sunlight, inside a closed vehicle, near high-temperature heating devices like stoves, or on hot carpets for both use and storage. These conditions can cause electric shock, fire, or malfunction.

Usage Safety Precautions

Warning:

- 1.** Do not expose the product to high temperatures such as a campfire, as it may lead to smoke, fire, or rupture.
- 2.** Avoid inserting metal objects such as hairpins into terminals or cable connectors, as this can cause short circuits leading to electric shock, fire, and injury.
- 3.** Cease using the product immediately if you notice abnormal conditions such as excessive heat, smoke, odors, or unusual noises. Disconnect the power plug and cable, and ensure the product is off. If no abnormalities are confirmed by the user upon inspection, please

contact authorized service professionals for further assistance.

4. If the product is damaged, turn off the power and unplug the AC adapter immediately to prevent risks of electric shock and fire.

5. Do not insert or allow foreign objects such as metals and inflammables to enter the product through openings (vents, etc.). This could cause electric shock and fire.

6. The heat dissipation components and the AC adapter will become hot during use. Avoid prolonged contact with your body to prevent low temperature burns.

7. This product is not waterproof. Avoid using or storing it in areas where it might be exposed to water, such as bathrooms or near showers, as this can cause malfunction, electric shock, or fire.

8. The product will generate heat. Do not cover it with materials like quilts or clothes, and do not allow pets with high body temperatures to be close to or on the device. Also, ensure the vents are not blocked to avoid overheating, which could lead to a fire.

9. Maintain a safe distance from the screen during use to avoid light-induced physical conditions such as muscle spasms or loss of consciousness. If you have had these symptoms before, consult a doctor prior to use. Discontinue use and consult a doctor if these symptoms occur.

10. Do not use if the AC adapter or cable is damaged, deformed, or cracked, as this may lead to electric shock or fire. Avoid subjecting the AC adapter to strong impacts such as disassembly, drops, or significant pressure that might cause deformation or damage.

11. Do not scratch, process, heat, load with heavy objects, forcibly bend, or twist the cables as these actions might lead to malfunction, electric shock, or fire.

12. Avoid tangling the cable around the AC adapter or other objects. Ensure it is not trapped under heavy objects to prevent damage.

13. When disconnecting the power cord and AC adapter, pull on the

plug rather than the cable to prevent damage that could result in electric shock or fire.

Notice:

- 1.** Avoid exposing the lens during use, as the strong light emitted can cause eye discomfort.
- 2.** Do not place heavy objects, such as iron blocks, on this product, as it may lead to malfunction or damage.
- 3.** Turn the volume down to the minimum before turning the device on or off. Also, avoid turning on or off the projector while wearing headphones, as sudden loud or harsh sounds can negatively impact your hearing.

Maintenance Precautions

Warning:

- 1.** Do not disassemble, repair, or modify this product yourself as it may lead to malfunction, electric shock, or fire. For repairs and inspections, please contact our after-sales service team.
- 2.** Avoid using cleaning sprays containing flammable substances, as they may cause malfunctions or fires.
- 3.** Periodically unplug the AC adapter from the outlet and use a dry cloth to clean off dust and debris from the connection. Ensure this is done at least once a year to prevent dust accumulation, particularly around the power plug, which could lead to electric shock or fire.
- 4.** When installing or removing peripherals, performing maintenance, or connecting devices, always cut off the power of this product and connected devices before unplugging from the socket to avoid malfunctions, electric shock, or fire.
- 5.** Carefully read the product instructions and ensure all cables are connected correctly. Incorrect connections can cause malfunction, electric shock, or fire and may affect the performance of this product and connected peripheral equipment.

Notice:

Please ensure the projector lens remains clean and free from dirt or scratches, as these can impair the quality of projection. If the lens becomes dirty, gently wipe it with a soft, dry cloth while the power is turned off.

Abnormal Function

Warning:

Liquid and Foreign Objects: If water or metallic objects are detected inside this product, immediately cut off the power supply and unplug the power cord and AC adapter. Using the product in this state may lead to malfunctions, electric shock, or fire.

Battery Leak Precautions:

- 1. Contact with Eyes or Mouth:** If any liquid from the battery pack leaks and comes into contact with your eyes or mouth, do not rub the affected area. Rinse immediately and thoroughly with clean tap water and consult a doctor without delay to prevent potential serious injuries, including blindness.
- 2. Contact with Skin or Clothing:** If the liquid contacts your skin or clothing, rinse the affected area immediately with water to prevent skin damage.

Notice:

Please ensure the projector lens remains clean and free from any dirt or scratches. Stains and scratches can adversely affect the quality of projection. If the lens becomes dirty, gently clean it with a soft, dry cloth while the projector is powered off.

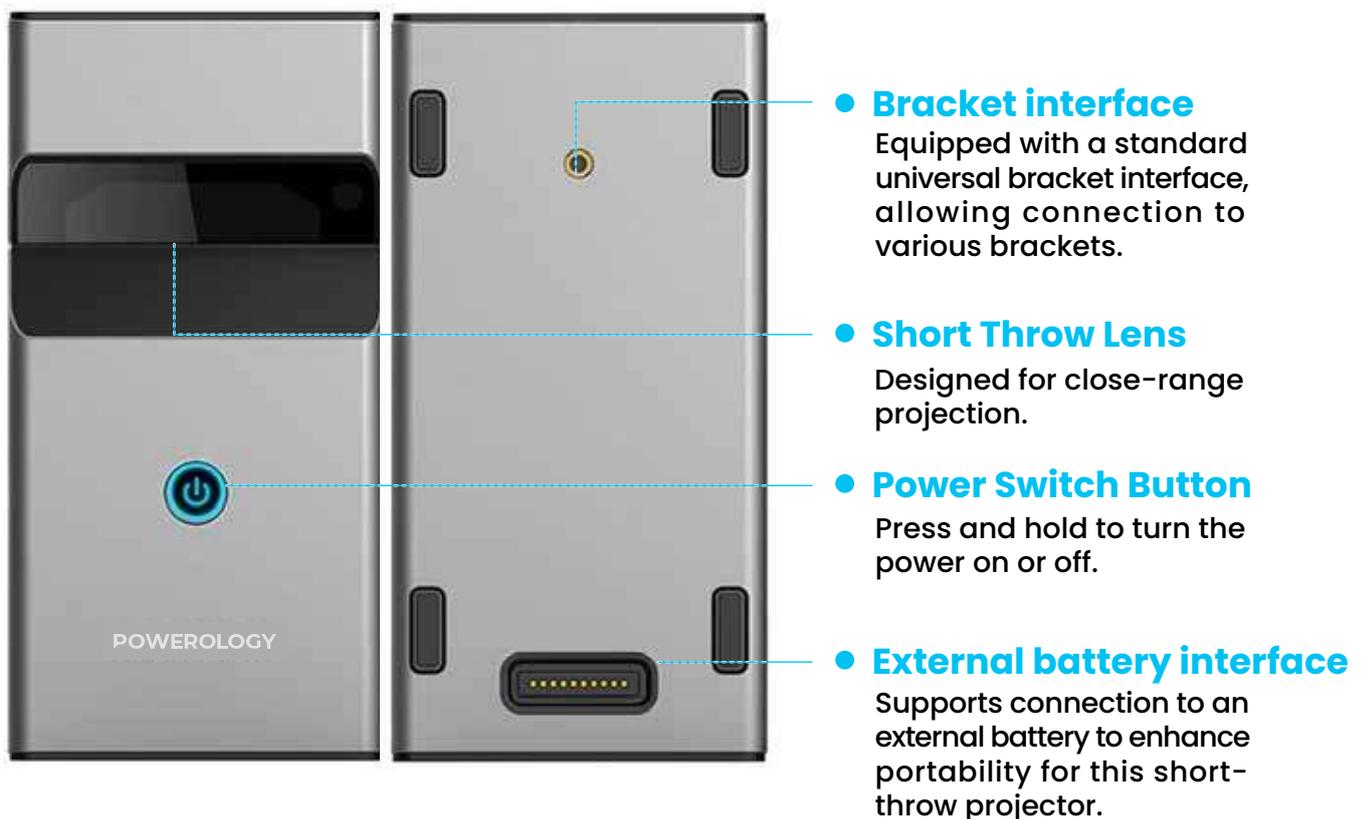
Disposal Notes

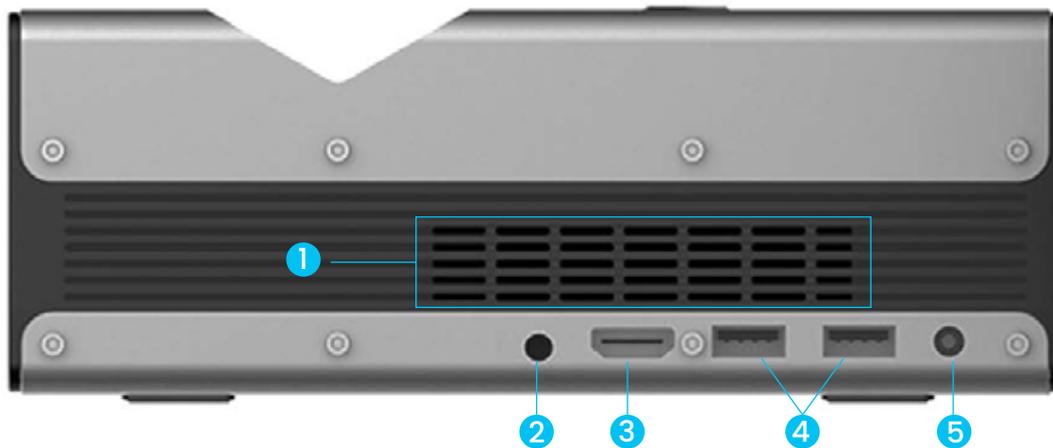
1. If the product is not in use for an extended period, please unplug the AC adapter from the outlet and store the device properly. This is necessary to prevent malfunction and reduce the risk of fire.
2. This product is governed by the "Law on Disposal and Cleaning of Waste" and features a lithium battery. Do not dispose of the battery with general household waste as it may burst if exposed to high temperatures, such as in a fire. Please adhere to local disposal regulations for electronic products and lithium batteries.

Package Contents

1. Projector
2. Bluetooth Remote Control
3. Power Adapter

Product Overview





1 Cooling Vent

Ensure the cooling vents are not blocked during use to prevent overheating.

2 Headphone Jack

Allows for private listening via headphones.

3 HDMI Interface

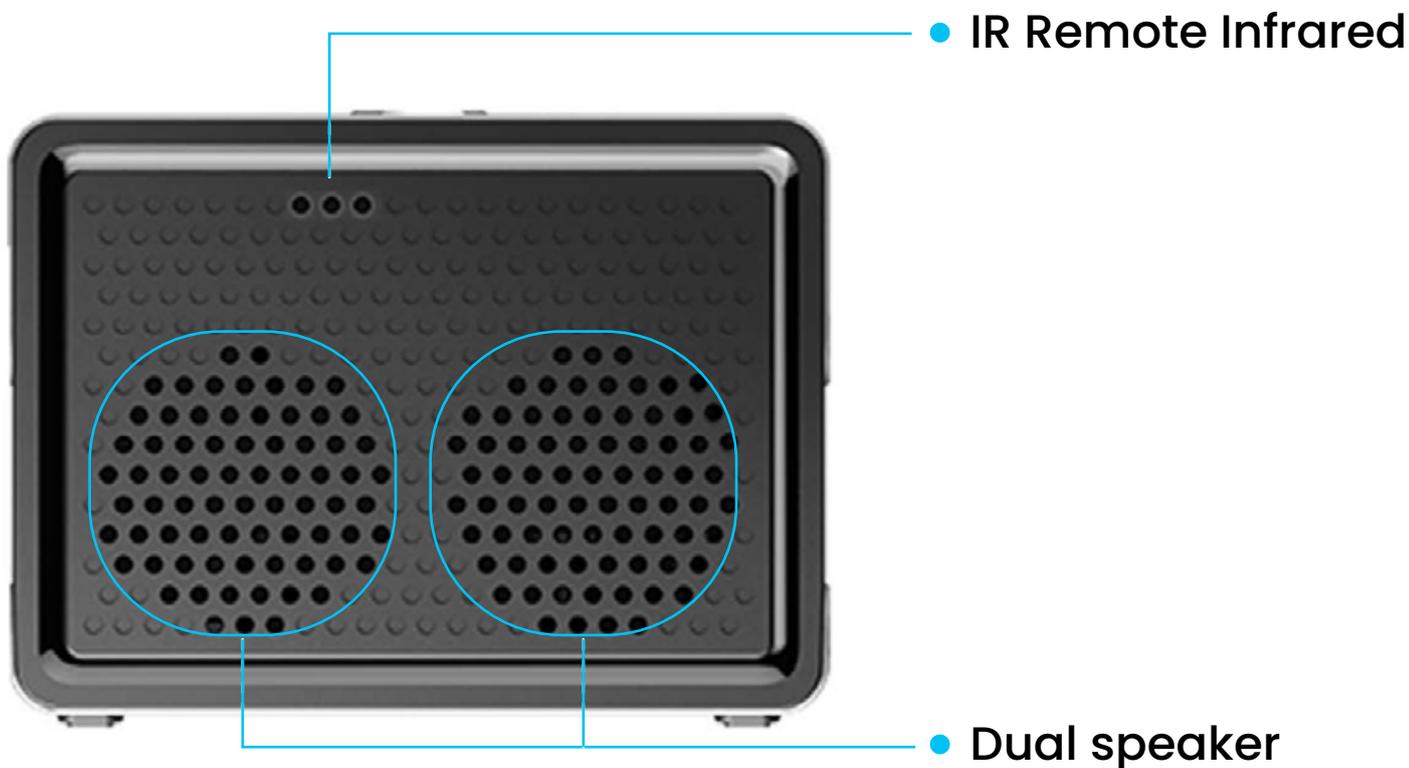
Use an HDMI cable to connect to HDMI-compatible devices.

4 USB Interface

Supports connection of external media, such as USB flash drives, and other USB-compatible devices.

5 Power Interface

Connect the DC plug of the included power adapter (12V, 4A) to power the device.



Remote Control Overview

● Power Switch Button

Press and hold to turn the power on or off.

● Return Key

Use this button to return to the previous page.

● Home Button

Press this button to return directly to the projector's main page.

● Volume Adjustment

Adjust the volume level as needed.

● Mouse Cursor/ Button Mode Switch

Press this button to toggle between using the device as a mouse cursor or in button mode.

● Mute button

Press to mute the audio of the currently playing video or music.

● Directional Buttons OK Button

Use the arrow keys to navigate through options and press the OK button to confirm your selection.

● Menu Button

Opens the menu of the application when starting certain applications.

● Voice Control Button

Press and hold to activate voice control mode, allowing you to operate the projector using voice commands.

● Focus Button

Adjust the projector's focus manually to ensure the image is clear.

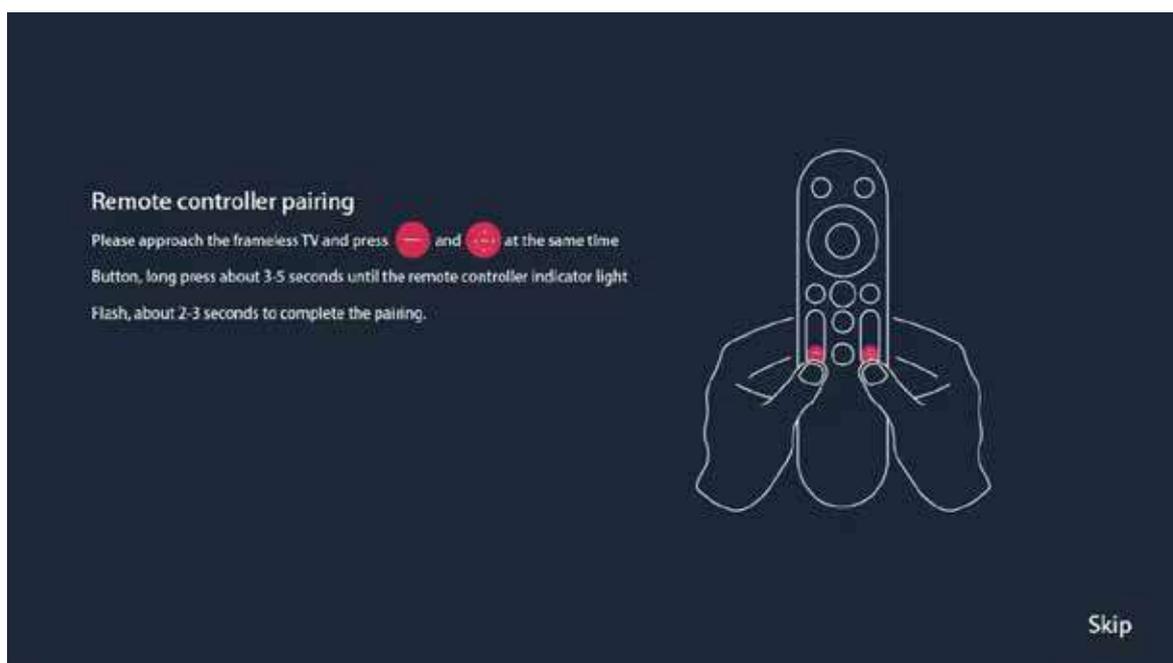


Operation Instructions

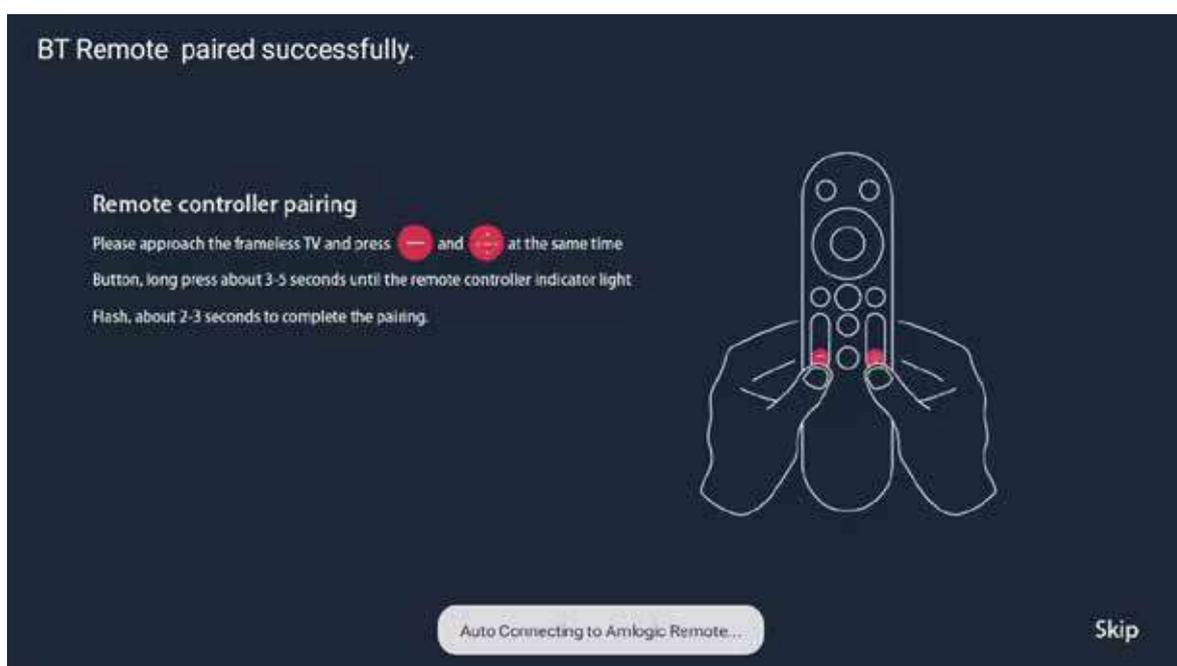
1. Voice Control Feature

A. Voice Control Pairing

Press the voice control button on the remote control to access the corresponding screen.



Follow the method shown on the right side of the screen. Press and hold the button for 5-3 seconds until the indicator light of the remote control begins to flash. After waiting for 3-2 seconds, a message saying "BT Remote paired successfully" will appear in the upper left corner of the screen, confirming that the connection has been successfully established.

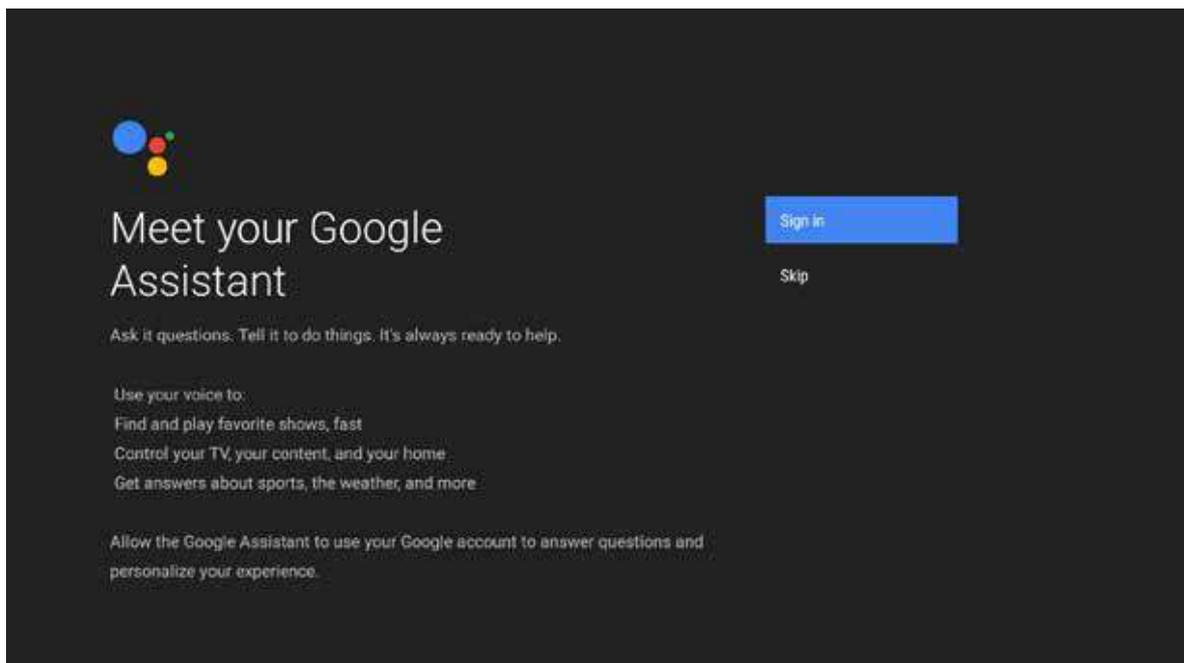


Note:

✂ Extra Function: Once the pairing is successful, the remote control enters Bluetooth mode. This allows you to control the projector within the Bluetooth signal's range without needing to directly aim at the screen.

B. Sign In

After a successful pairing and connection, pressing the voice control button for the first time will direct you to a login page. You have the option to "Sign in" and log in to your Google account, or you can select "Skip" to proceed without logging in, which does not affect normal operation. Note that you only need to make this choice once; it will not be required in future sessions.



C. Voice Control Operation

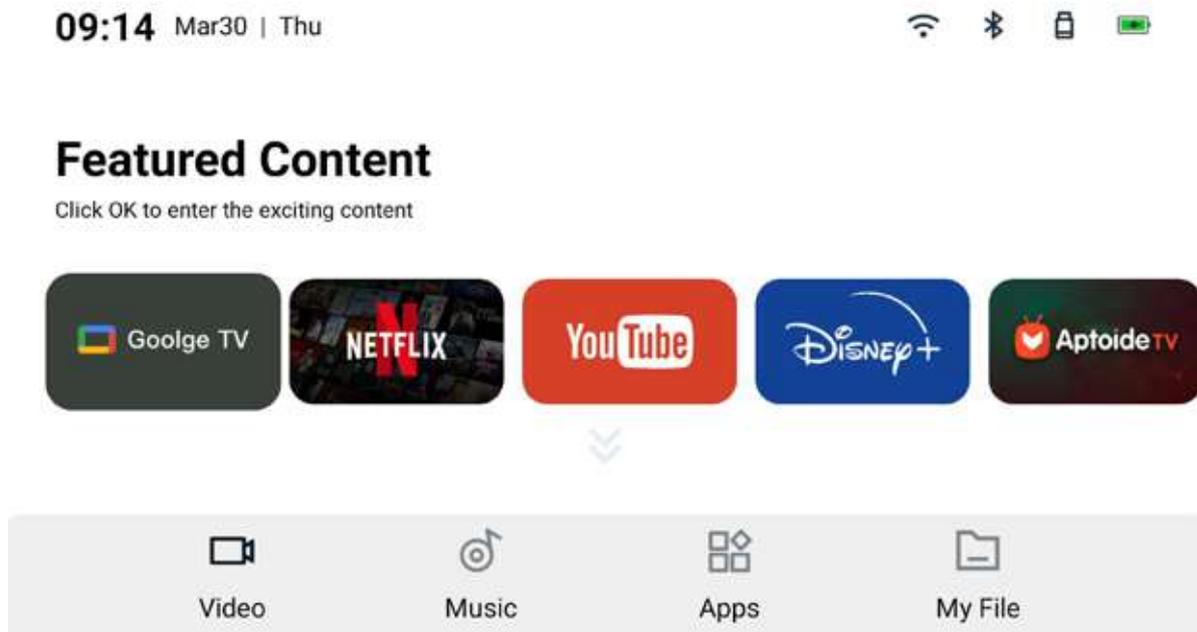
Step 1: Press the voice control button once to activate voice control mode.

Step 2: Press and hold the voice control button while bringing the top of the remote close to your mouth.

Step 3: Clearly state the command you wish the projector to execute, such as "Open YouTube." The projector will then automatically execute the command and open YouTube.

2. Power ON

Press and hold the power switch button for approximately 5 to 10 seconds. After this, the main page will be displayed.



3. Focus

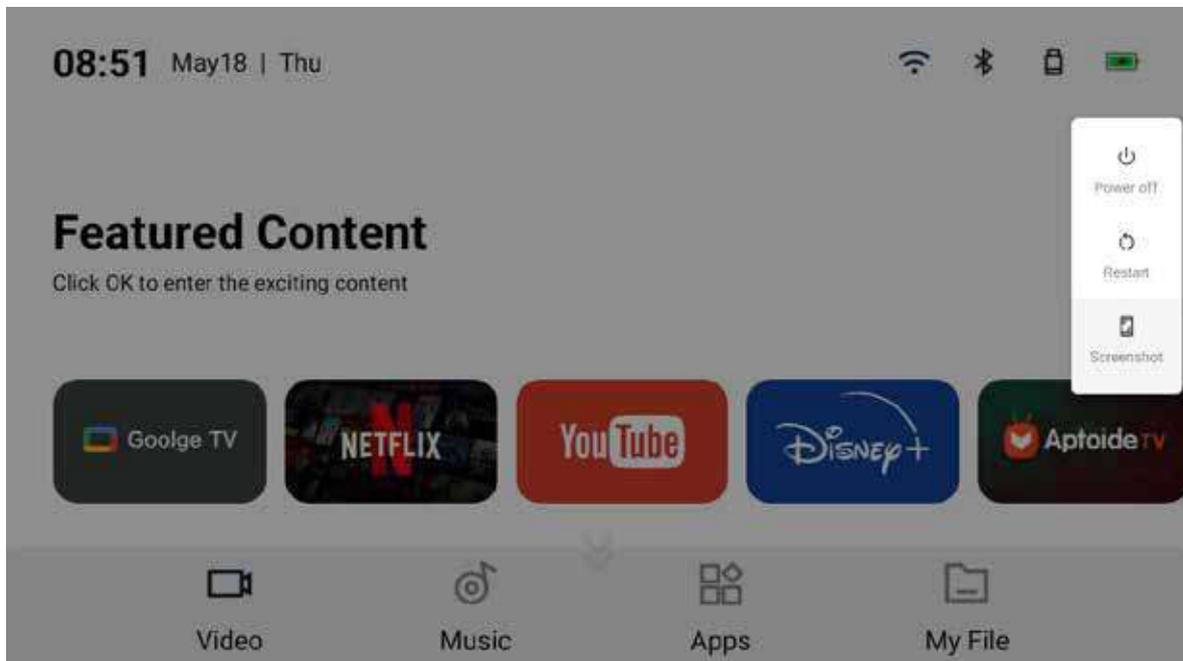
After pressing the focus button on the remote control, a screen will appear allowing you to manually adjust the focus. You can either hold the focus button for continuous adjustment or click to fine-tune the focus incrementally.



4. Power OFF

Method 1:

After pressing the power button, the "Power off" option will appear on the right side of the projection screen. To turn off the power, select this option using the "OK" button on the remote control.



Method 2:

Long press the power button to turn off the power directly.

Note: This method may consume more battery life and is generally not recommended.

Image Input Options

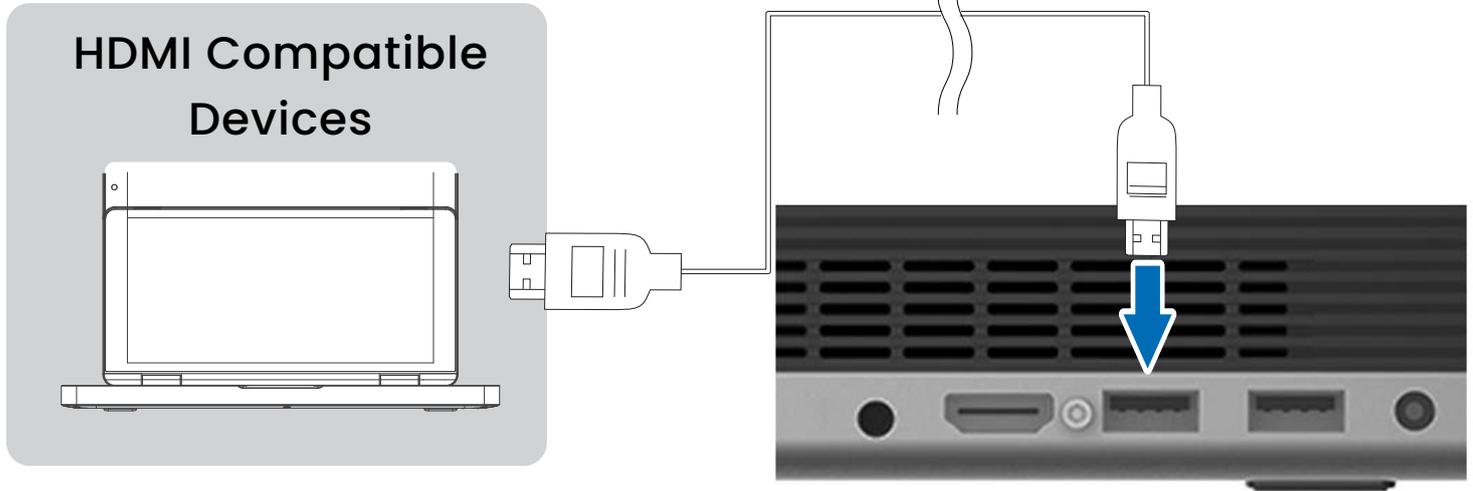
This product supports projecting images in three ways: through an HDMI connection, by screen mirroring with smart devices via Wi-Fi, and by accessing content from external media devices.

- **HDMI Connection:** Connect a compatible device using an HDMI cable to project the device's screen.
- **Wi-Fi Screen Mirroring:** Mirror your smartphone's screen via Wi-Fi.
- **USB Storage:** Read and display pictures or videos from USB storage devices.

A. Input with HDMI Cable

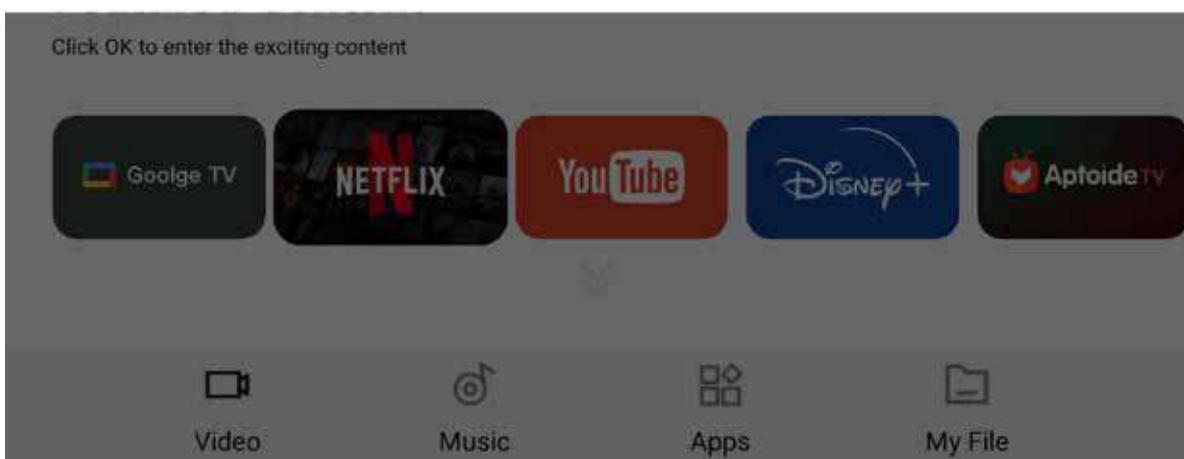
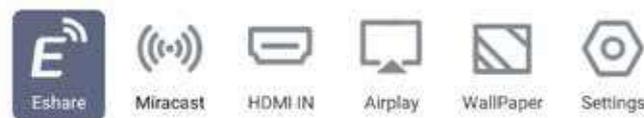
A.1 HDMI Cable Connection

Connect one end of the HDMI cable to the projector and the other end to the corresponding device.



A.2 Set to HDMI Insert Mode

On the projector's home page, press the up button on the arrow keys twice to display a dropdown menu at the top of the screen. Use the arrow keys to select "HDMI IN" and click to open it. You will then be able to see the projection from the connected device.

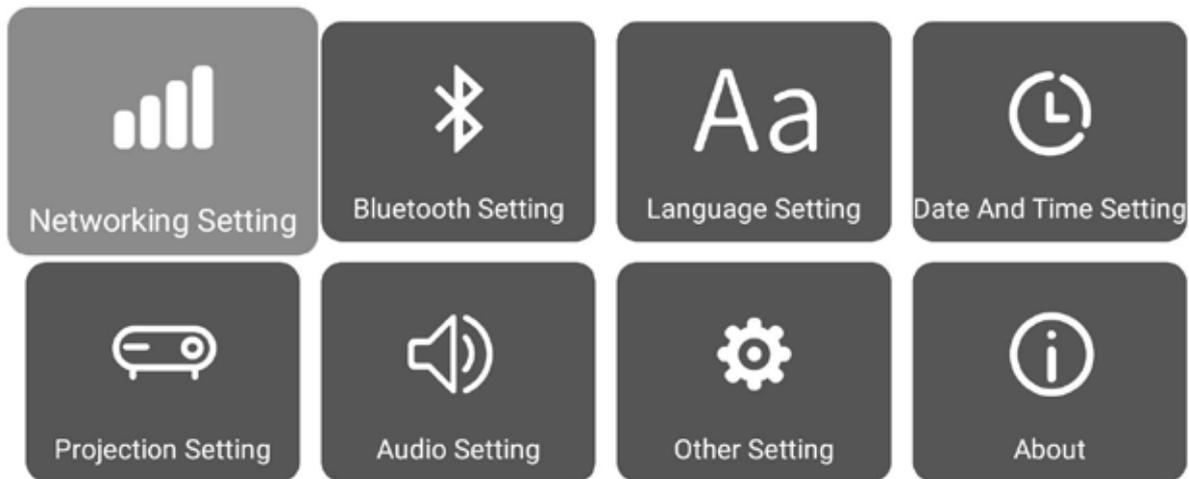


B. Input via Smart Device

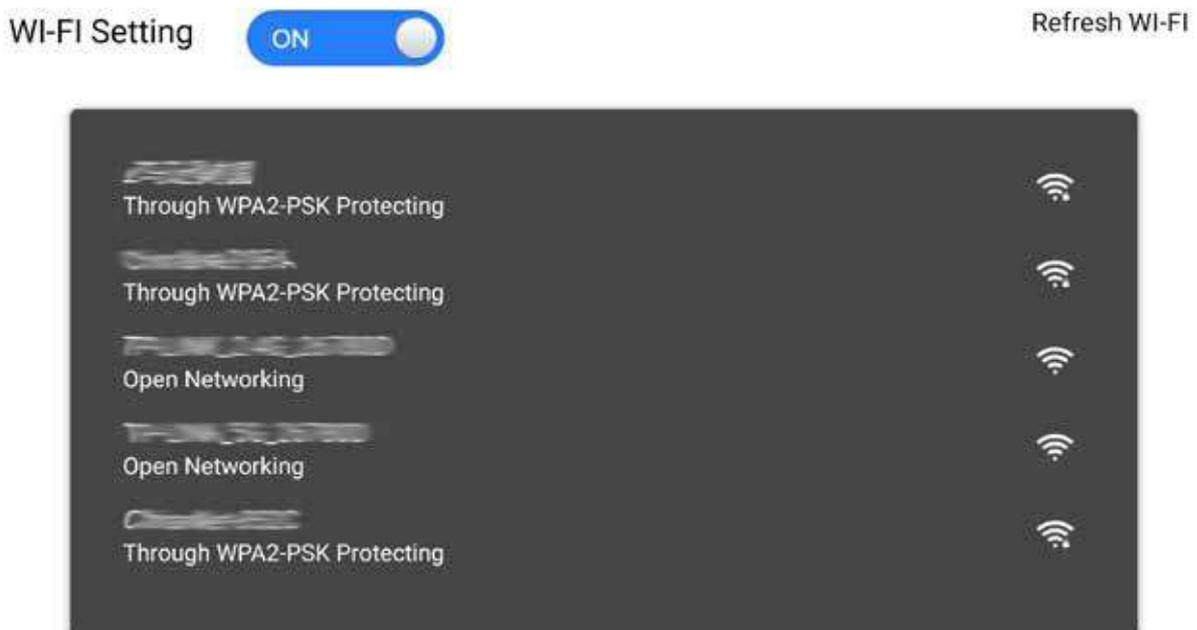
B.1 Wi-Fi Connection

To project the screen of a smart device, such as a smartphone or tablet, onto this product, both the product and the smart device must be connected to the same Wi-Fi network. To connect this product to Wi-Fi, follow these steps:

Projector Homepage > Press the up arrow key and a drop-down menu will appear > Settings > Network Settings.



Set the switch in the upper left corner of the screen to "ON" to display a list of available networks. Please select the network to which the smart device you wish to project the screen is connected.



✘ The smart device should also confirm its connection to the Wi-Fi network mentioned above.

✘ **Note:**

1. For information on the network name and password, please refer to the instruction manual of the Wi-Fi router and the device description.

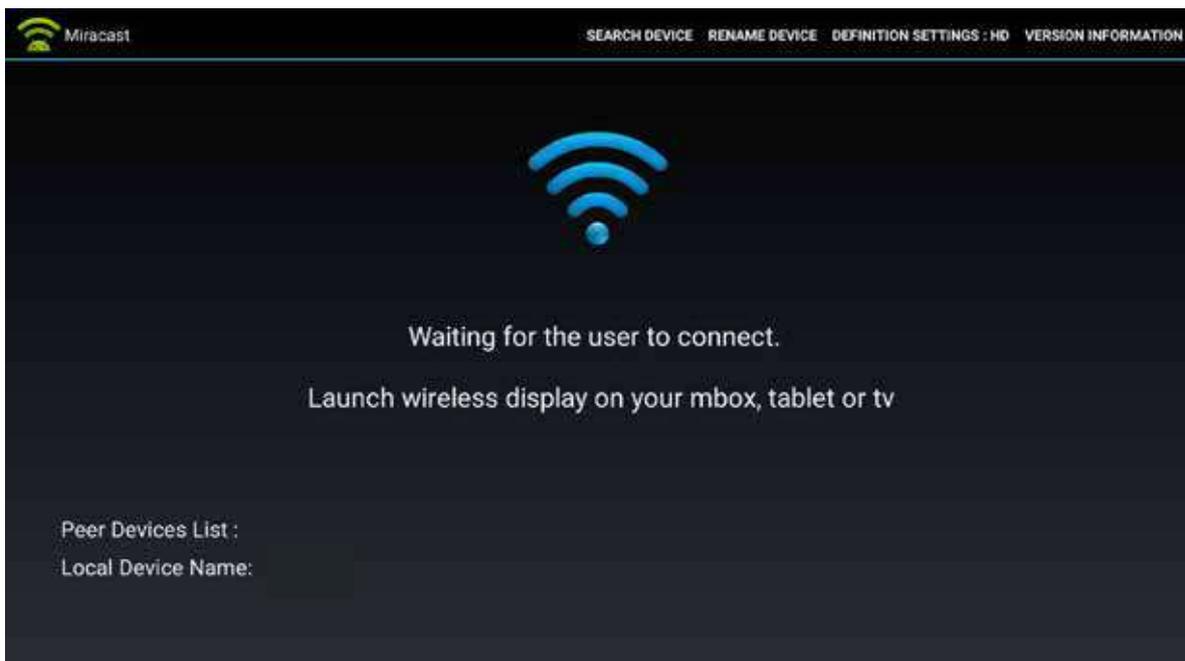
2. For details on the Wi-Fi connection method for smart devices such as smartphones and tablets, please consult the instruction manual of the smart device.

B.2 Screen Mirroring via the App

Screen mirroring on your smart device depends on the operating system you use. Alternatively, you can employ a dedicated app for this purpose.

1. Android Miracast

For Android systems, utilize the "Miracast" app. Simply access the drop-down menu bar at the top of the projector's home page, select "Miracast", and proceed with the screen mirroring settings for your Android device, as illustrated in the accompanying image:



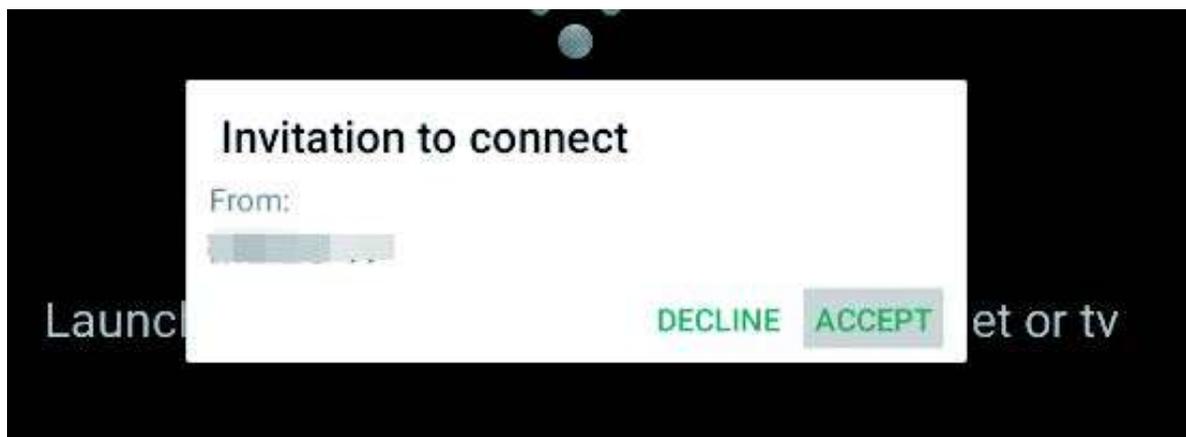
On an Android phone, swipe down from the top of the screen to access the quick settings panel. Keep swiping down to unveil all icons, then tap the "Screen Sharing" icon.

A dialog box for "Screen Sharing" appears. Choose the "Device Name" shown in the lower-left corner of the product. If it's not listed, pressing the "Set" button will expand the list for selection.

Note: If the Screen Sharing icon is not visible on the screen, navigate to your smartphone's Settings > Connected Devices > Cast Screen.

Note: The method for screen sharing may vary depending on the smartphone model. In such cases, refer to the manufacturer's instructions for guidance.

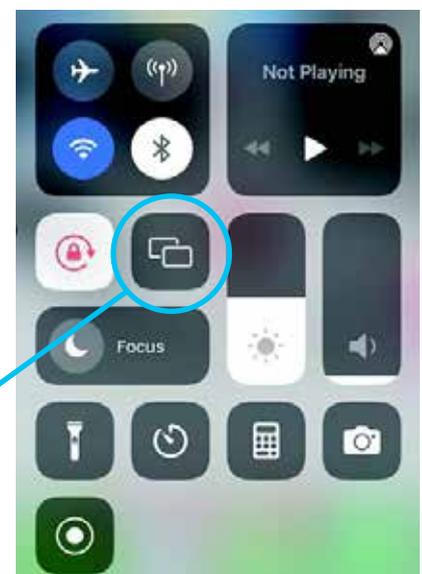
Upon selecting "Agree" in the "Invite to connect" dialog box on the product page, the screen of the mobile phone will be mirrored and projected by the product after a brief moment.



2. iOS AirPlay

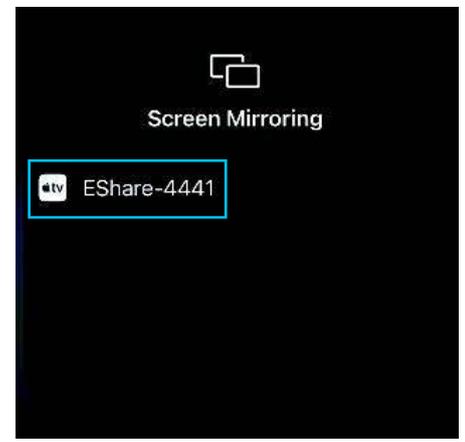
On an iPhone screen, swipe down from the upper-right corner (for iPhone 8 or earlier models, or iOS 11 and earlier, swipe up from the bottom to access the Control Center). Then, tap on "Screen Mirroring".

Control Center



Screen Mirroring

Select the projector named 'EShare-xxxx' from the list. After a short period, this device will mirror and project the screen of your mobile phone.



3. Using EShareServer app

From the dropdown menu at the top of the projector's homepage, select the 'Eshare' application. The following screen will appear. You can scan the QR code displayed on the screen with your smartphone, or visit the URL provided. This will direct you to the download page for the Eshare app, where you can download the app free of charge.



1. Connect your device to "FREESUN-5G"
2. Visit "http://192.168.50.148:8000" with web browser or scan the QR-code to download app.
3. Launch EShare and click "EShare-4441" to connect.

After launching the mobile app, 'EShare xxxx' will appear in the [Device List]. Please select it.



Device List

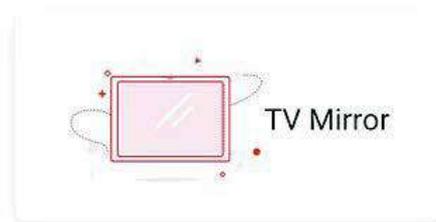
Enter "IP" or "PIN" code to connect



EShare-4441

192.168.50.148

If you select "Share Screen , " a confirmation page will appear. Then, select "Start Broadcast" . After a few seconds, the phone screen will be projected onto the projection screen.



C. Input via external media device

C.1. Connecting external media

Connect the USB storage device to the projector.



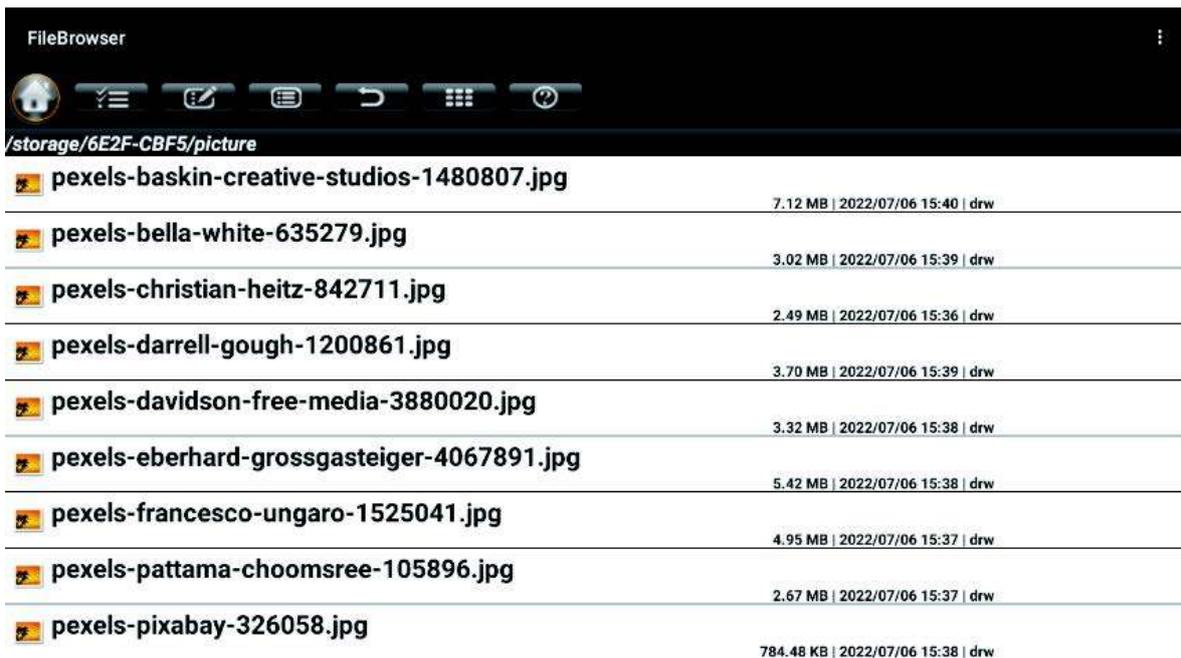
C.2. Open [File]

On the home page of the projector, navigate by pressing the down arrow key until you reach the menu bar at the bottom. Then, choose and open "My File" located on the far right. The connected media's name will be listed, and upon selection, the folder containing the content will be displayed.



C.3. Select File

Choose the picture folder you wish to access. Once inside, select any picture you want to project, and with a single click, you can initiate the projection.



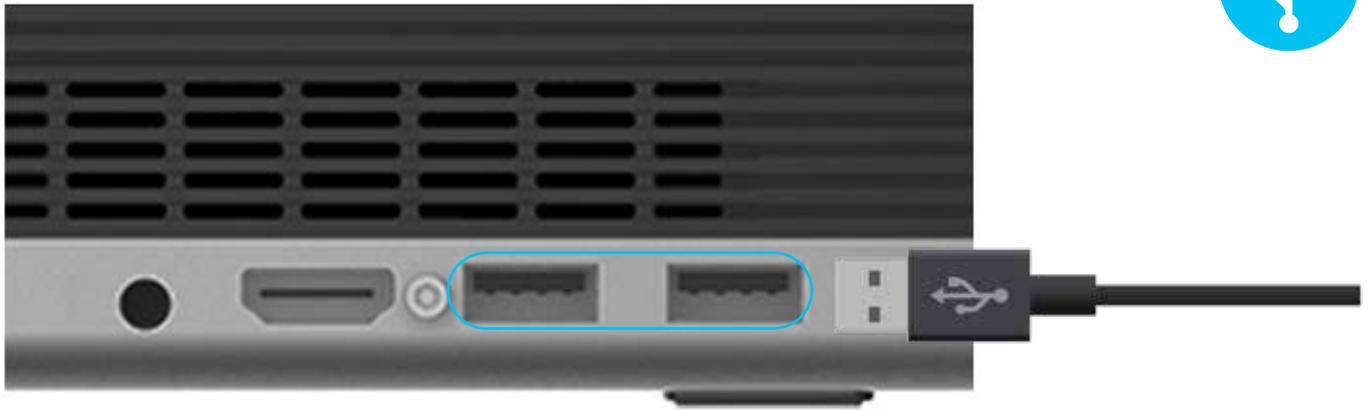
Multi-device Connection

This product is capable of connecting to external devices such as speakers, keyboards, mice, and more. The connection methods include USB and Bluetooth wireless connections.

Note: Keyboards and mice can be used directly by plugging them into the USB port.

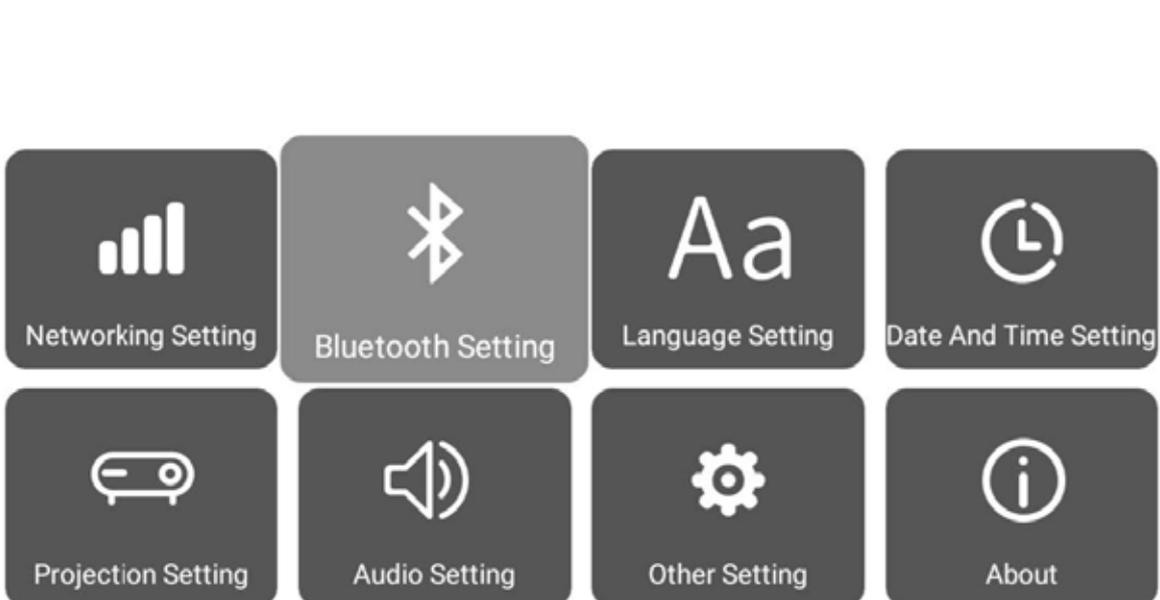
1. USB Connection

Connect external devices to the product's USB port.



2. Bluetooth Connection

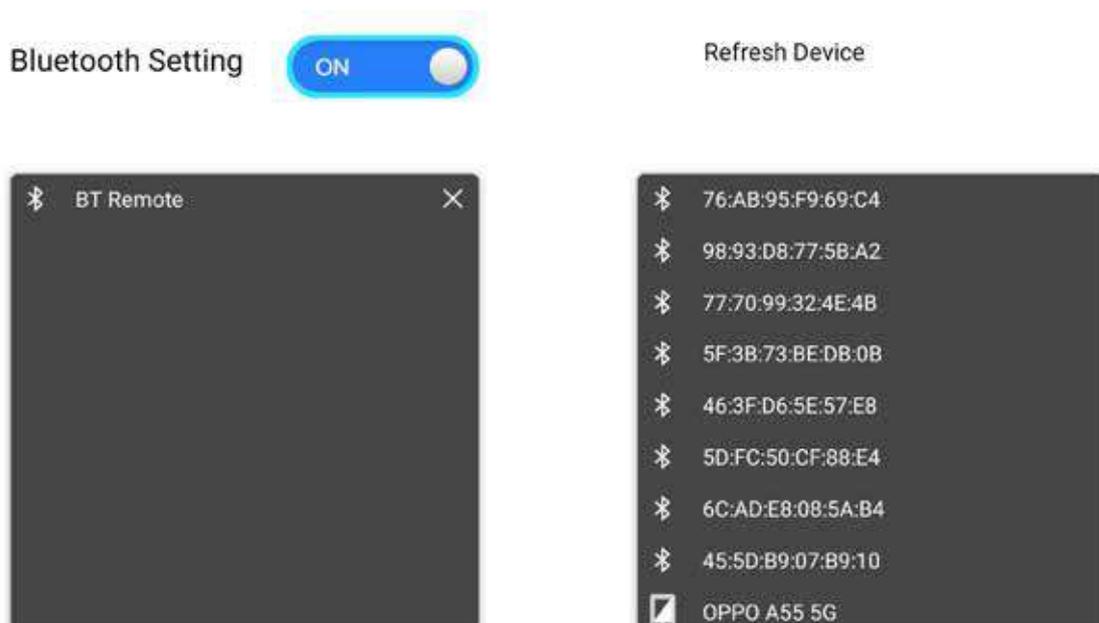
Navigate to the Projector Home Page, then access the Top Drop-Down Menu. From there, proceed to Settings and select Bluetooth Settings.



Toggle the switch located in the upper left corner of the screen to "ON" to activate pairing mode for the external device you are using. The device name will then appear in the list of available devices. Select the desired device from the list.



Once the connection is established, the device name will appear in the paired device list. To disconnect, switch to mouse cursor mode, then navigate to the selection and click on the "x" symbol located in the list.



Specifications

Projection Technology	DLP 0.23 inch DMD
Display Chip	RGB LED OSRAM Q6
Light Luminance	350 ANSI Lumens
Standard Resolution	1920×1080P (Full HD)
Projection Distance	0.26 M~1.2 M
Projection Area	30-200 inch
Light Life	Up to 20,000 hours
Contrast	500:1
Throw Ratio	0.26:1
Distortion	< 1.0%
Focus and Keystone Correction	Support Auto focus and Auto keystone correction
Luminance Uniformity	< 85 %
OS	Android 9.0
CPU	Amlogic T972
GPU	Quad-Core A53
Buffer Memory	2GB
Memory	16GB
WIFI	2.4G+ 5.8G WIFI
Bluetooth	BT 5.0
Screen Mirror	AirPlay/MiraCast/ E-share
Installed APPS	Youtube, Netflix, Google store, etc, apps
Video Decoding	Supports 4Kx2K@60fps/H.10 /265-bit video decoder
Video Format	mkv/wmv/mpg/mpeg/dat/av/mov/iso/mp4/rm
Audio Format	mp3/aac/ wma/rm/flv/ogg
Power Performance	1*DC: AC100-240V,50/60Hz, DC 19V 4.7A
HDMI	1*HDMI: HDMI Input
USB	2*USB 2.0 Support USB hard disk data read
Earphone	1*Earphone: Audio Output 3.5mm jack
Dimension of device	9.4×7.1×19cm
Net weight of device	0.74kg
Accessories	2.4G+IR Remote control, HDMI cable, Adaptor

FAQ

Q1. Can the device be put on a tripod?

A1. Yes, other tripods can be used as the projector bracket hole matches the standard camera bracket size (compatible with 1/4 inch screws).

Q2. How do I set up invert and rotate the display?

A2. Select your desired display method from the projector's "Settings -> Projection Settings -> Projection mode".

Q3. Can I manually set the screen correction and brightness?

A3. Yes. Navigate to "Settings -> Projection Settings" where you can adjust the vertical or horizontal correction and brightness manually.

Q4. Can sound come from external speakers?

A4. The speakers can be connected via Bluetooth or sound output via the headphone jack of the projector itself.

Q5. Can it be changed to another language? For example, Spanish?

A5. Yes, it can be set from the projector's "Setting -> Language Setting" .

Q6. Can the projector be powered by a mobile power bank?

A6. Yes, it can. But the mobile power supply must support an output voltage of 19V and an output current above 4.73A. (**Note:** You cannot use a mobile power supply with a voltage output higher than 19V, as it will easily burn out the projector.)

Q7. Can other chargers be used?

A7. As long as the output voltage is 19V, the charger can be used.

Note: The output voltage cannot be higher than 19V, otherwise, it is easy to burn out the projector. And it cannot be lower than 19V, and the output current cannot be lower than 4.73A, otherwise, the voltage and current are too low and the projector cannot be started.

Q8. Is the resolution of this projector 1080p?

A8. Yes, our projector has a true 1080p resolution, and it also supports the resolution and playback of 4K and 3D videos.

Q9. Is this projector wireless?

A9. No, this short throw projector needs to be connected to a power cord to start up properly and use it. However, we have reserved an external battery interface at the bottom of the projector. In the future, we will sell an external battery together. After using the external battery, the projector can be used wirelessly.

Q10. I wanted to connect to a Bluetooth speaker while the device was connected to a laptop, will it work?

A10. I often use my MacBook to project onto the screen to watch movies while connecting to my Bluetooth speaker to play sound without any issues.

Warranty

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website **powerology.me/warranty** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:
powerology.me/warranty

Contact Us

If you have any questions about this Privacy Policy, please contact us at: **hey@powerology.me**

Website: **powerology.me**

Instagram: **powerology_official**

Facebook: **powerology.ME**