# User Manual

BEGINNING WORDS

First of all, thank you for your support!

You can fully understand the use and operation of this product by reading this manual.

This hand-held projection equipment is small, portable and powerful, which is specially designed for household, entertainment, business and other application environments. It allows you to enjoy the fun of large screen display anytime and anywhere, and you are welcome to share the fun and ideas of using it with us.

If you have any questions about this product, welcome to contact our professional after-sales service personnel, we will provide you with cordial service.

CAUTIONS ⚠

To prevent electric shock, do not open the casing. There are no parts in the machine that customers can repair. Please entrust qualified professional maintenance personnel for the maintenance.

⚠

This label warns users that uninsulated voltage in the unit may cause electric shock due to surface magnetic field. Therefore, contacting any parts inside the unit is very dangerous.

⚠

To prevent fire or electric shock, never expose the machine to rainwater or moisture.

Content

IMPORTANT SAFETY PRECAUTIONS

Important: In order to get the best viewing effect, it's suggested that you use the product in a dark room.

Warming: Following safety instructions can sustain product's lifespan and prevent it from firing or electric shock, so please read them carefully and pay attention to all warnings.

Do not install it in a place with poor ventilation.

Do not install it in a hot or damp place.

Do not block its ventilation holes (Intake or Exhaust).

Do not install it in a dusty or smoky place.

Do not install it near to the temperature/smoke sensor since it might take the sensor fail to work.

Do not install it in a position directly blown by air condition. Otherwise it might be malfunctioned because of the water & vapour condensation or high temperature.

Note: In order to maintain the performance and reliability of the projector, please leave at least 30cm of space around the projector.
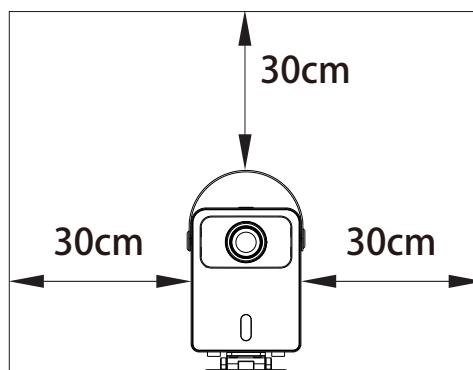
Note: The projector's light is very bright, so please do not look at it directly or point its light to your eyes in case of causing visual damage.
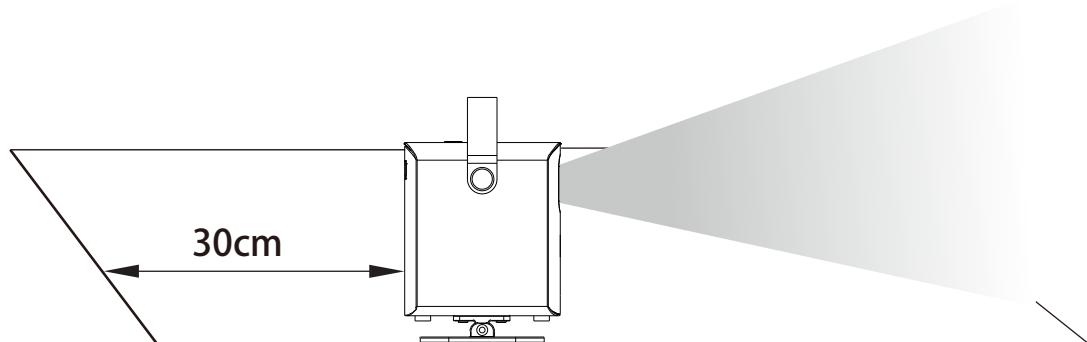
IMPORTANT SAFETY NOTICE

Do not install in an unventilated area.
Do not install in high temperature and humidity.
Do not settle the bottom in a soft place.
Stay away from the dust.

PACKING LIST

Note: Please check whether the accessories are complete after opening the package. If it's not complete, please contact customer service for a replacement.
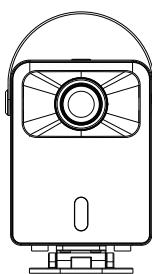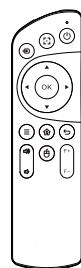
| Projector | Remote Control | Power Cable | User Manual |
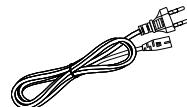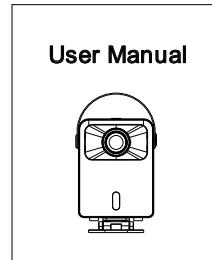
PRODUCT INTRODUCTION

on/of

IR reveiver window1

Audio HD USB DC IR
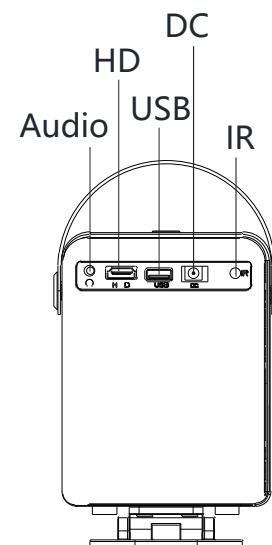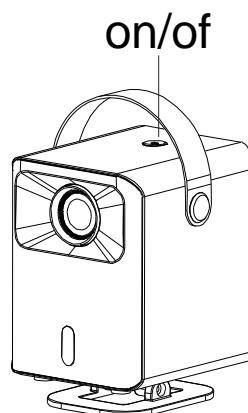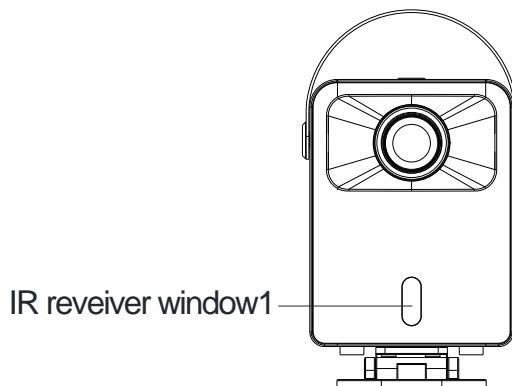
Projector Stand Installation Method: Align the four holes of the bracket with the bottom of the projector and tighten the screws to fix the bracket to the projector. If you want to adjust the tilt angle of the projector, you can use a screwdriver to adjust the tightness of the screws on the left and right sides.

REMOTE CONTROL

1. Power Indicator Light
2. Power Button
3. Quick Settings
4. Signal Source Button
5. Up
6. Left
7. Right
8. Down
9. OK/Play/Pause
10. Menu
11. Back
12. Main Menu
13. Digital Focus
14. Volume +
15. Volume -
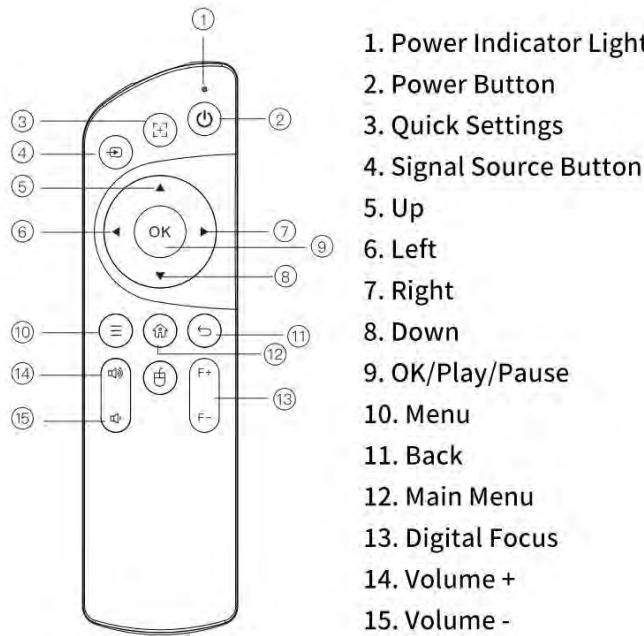
**Virtual Mouse Function:** long press the button on the remote to activate the virtual mouse function; if you want to exit virtual mouse mode, long press the button again.

Notice: Due to App copyright issues, Apps like Netflix may require users to use a Mouse to fully navigate.

If you cannot scroll up/down via the remote control within some Apps, it's recommended to connect a mouse to the projector for fully navigate.

Remote Control Using Cautions
Be cautious when using the remote control. Do not drop it, trample on it, or spill any liquid into its body.
Do not put the remote control near to any heat source.
Do not expose the remote control under sunlight.
Do not put the remote control in a damp place.

INSTALLATION AND DEBUGGING

1. Projector Installation
Method 1: Put it horizontally
Method 2: Hang it with mount

Note: When the projector is hung on the ceiling or in a system of rear projection, please change the projection mode accordingly.

2. Projection Mode

Adjust the projection mode under **Menu ≫ MY APPS ≫ Settings ≫ Display ≫ Projection Settings ≫ Projection Mode** per your needs.

3. Focus Adjustment

When the image is blurred, it's recommended to manually press **F+/F- focus button** on the remote to improve the clarity of the image. If you cannot obtain satisfactory clarity through adjustment, please move the projector forward or backward.
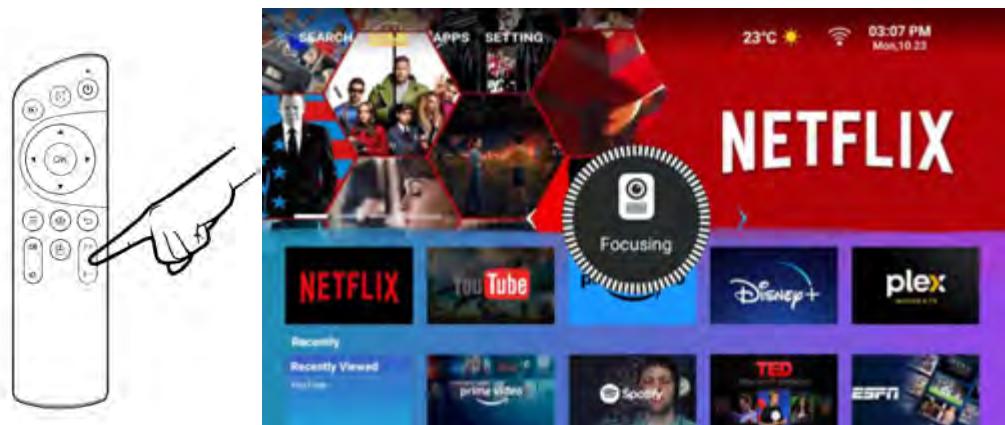
4. Keystone Correction

When trapezoidal distortion occurs, the user needs to adjust the electronic keystone correction under the following Settings: **Menu ≫ MY APPS ≫ Settings ≫ Display ≫ Projection Settings ≫ Keystone Correction**.
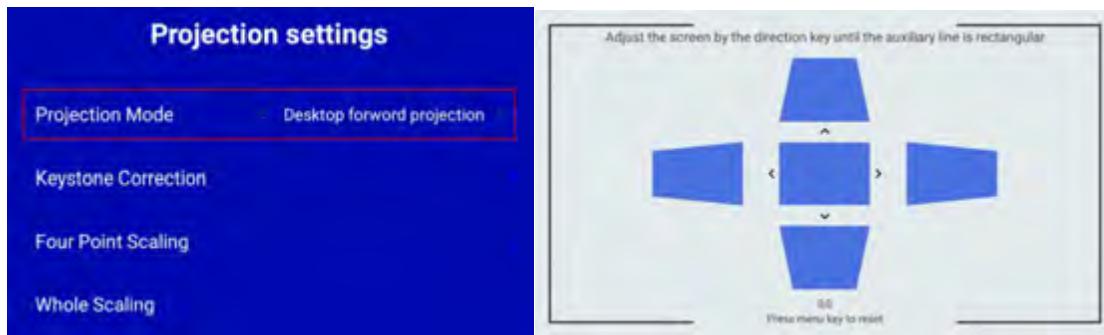
Press the up/down/left/right key button on the remote to adjust the inclination of the projection screen per your needs.

5. Four Point Scaling

Press the **OK** button on the remote the select the **four corners**, then press the **up/down/left/right** button on the remote to adjust the projection screen inclination per your needs.

6. Projection Size Adjustment

Press the left/right button on the remote to adjust the projection size per your needs.

Turn Off Safely

Press the switch button on operation panel or remote control, and turn off the device according to the system prompts.

ANDROID DESK

Overview

Press the Power on button, it will enter into the home page after the boot screen appeared for a few seconds.
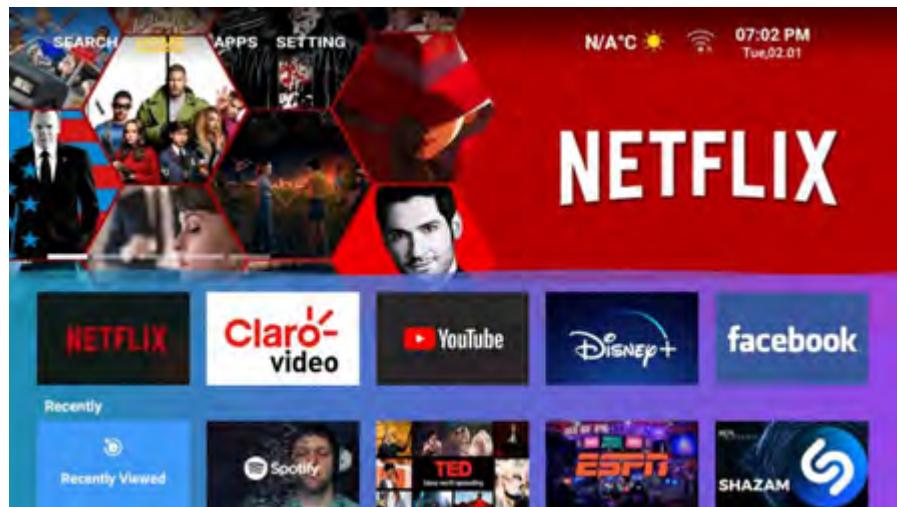
1. App Playing

Once connected to a wireless network, you can access online services, enjoy movies, music, and pictures, and browse internet through the installed apps. Apart from the apps installed, you can also install any other apps either from App Store or from Google Play Store.
① Press "**Home**" button to access the home menu.
② Select "**SETTINGS**" - "**Network**" to complete network connection.
③ Select "**My Apps**" - ">" - "**Netflix/YouTube/Prime Video**" etc to start your APP playing.

Note: Apart from the apps installed, you can also install any other apps either from **App Store** or **Google Play Store**. For the apps that you cannot find in App Store or Google Play Store, you can download the APK file on the website and install it by USB flash drive.

➢ App Manager
Select "**Menu-Settings-Apps**" to manage your installed Apps.

➢ App Uninstall
Select an App in My Apps and long press "≡" on the remote control, then you can select [Uninstall] to remove the App.

## 2. Wireless Mirroring Function

Android Device Mirroring
Please make sure your Android mobile/tablet supports Screen-sharing before you start using wireless projection on this projector.

1.Please connect your android device to the same network as the projector.
2.Turn on the projector and press the Menu/Home button on the remote control, select "**My APP - >**[More] - **HappyCast- iPhone**" as the input source.
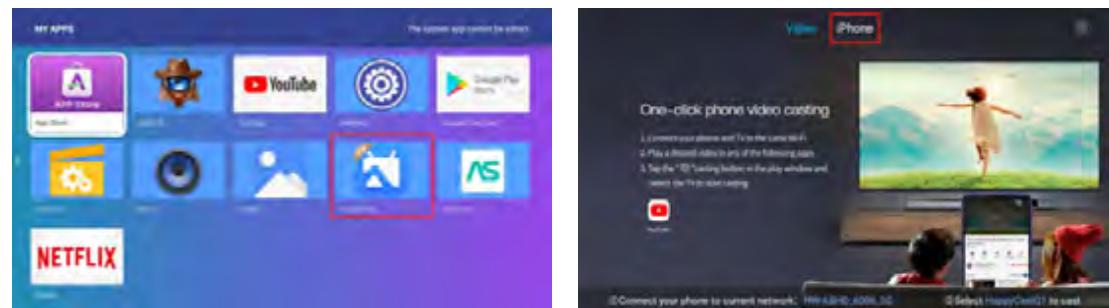

3.Enter into phone settings and Activate Screen-Sharing function on your Android device, click it and find the device to connect HappyCast-XX.
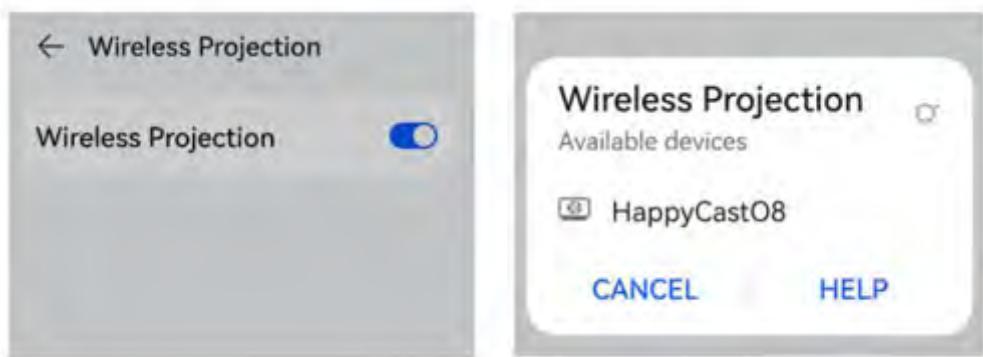
Note: For different phone brands, the names of "screen-sharing" are different.

IOS Device Mirroring
1.Please connect your IOS device to the same network as the projector.
2.Turn on the projector and press the Menu/Home button on the remote control, select "**My APP** - >[More] - **HappyCast- iphone**" as the input source.
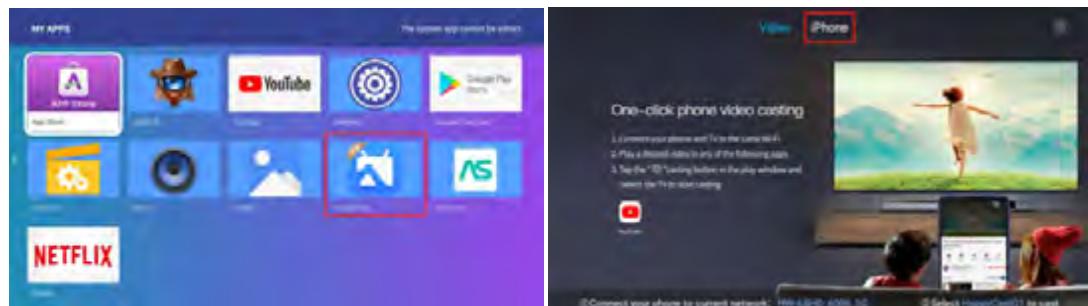
3.Activate Screen-Mirroring function on your IOS device and search for the projector, click it and find the device to connect **HappyCast-XX**.
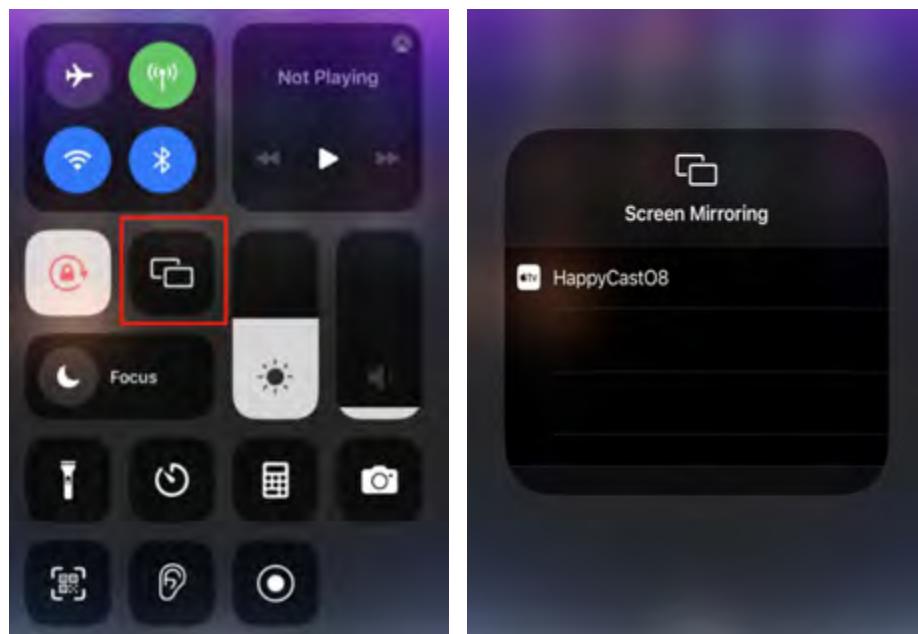
Note: if there is no sound when screen mirroring on your Macbook, please go to the Macbook sound settings and chose "**HappyCastXX**" as output sound.
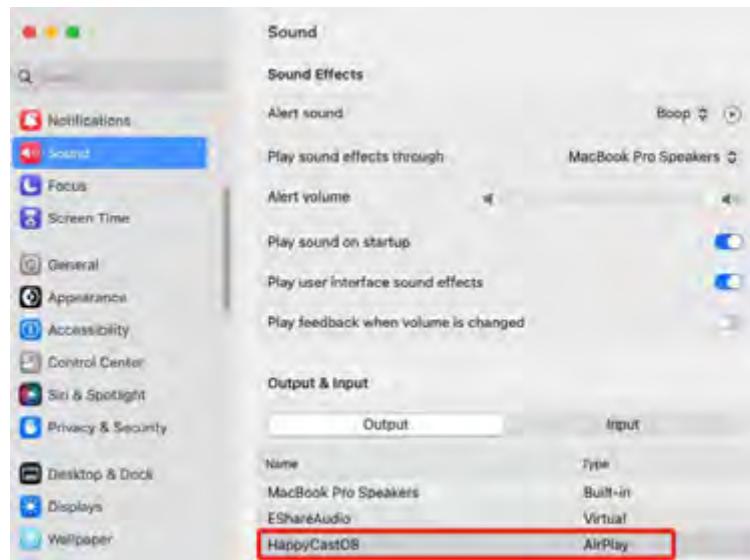
DLNA - APP Airplay

1.Please connect your mobile/tablet device to the same network as the projector.
2.Turn on the projector and press the Menu/Home button on the remote control, select "**My APP** - >[More] - **HappyCast**- **Video**" as the input source.
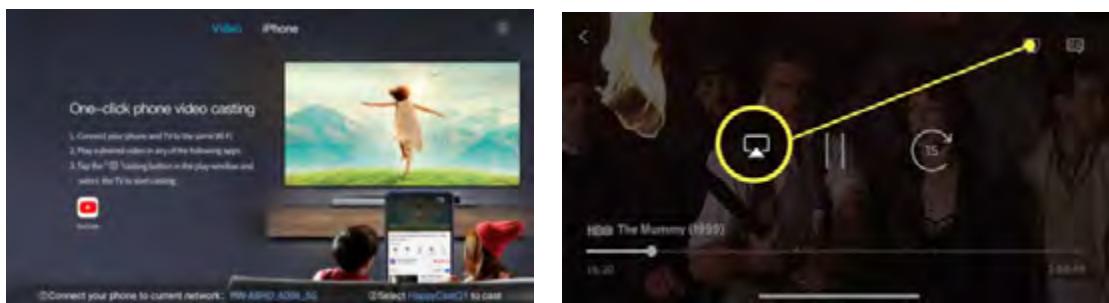
Cast Screen Guide:
① Make sure your device and projector on the same WLAN.
② Choose whatever video you like on apps with cast screen capability.
③ Click TV Button on your device, select this projector [**HappyCast-XX**] for screen casting.

Notice: Due to copyright issue, Videos like Netflix, Prime Video, Disney and Hulu are not support to screen mirroring on smart phones directly. You can watch those videos directly by the installed apps of the projector or connect it to your laptop via HDMI connection.

Macbook Screen Mirroring

1.Click the Screen Mirroring icon on the top of your MacBook task bar.

2.Click Mirror or extend to: [**HappyCastXX**] and choose **Mirror Built-in Retina Display**.

3.Click [**HappyCastXX**] again to exit Screen Mirroring.
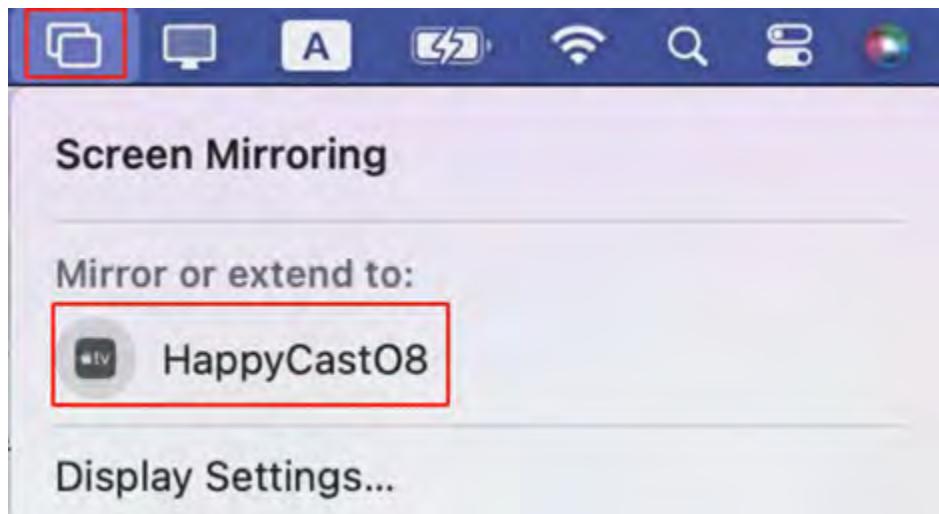
3. HDMI Connection

HDMI Compatible Devices: Laptop, TV Stick, PS4, XBOX, DVD Player, etc.

HDMI Connection Methods:

Method ①: Press the "Source" button on the remote control to select HDMI as the input source.

Method ②: Connect the projector to your laptop or fire TV stick, DVD players via HDMI connection, then select "**My APP** - >[More] -**HDMI IN**" as input source.
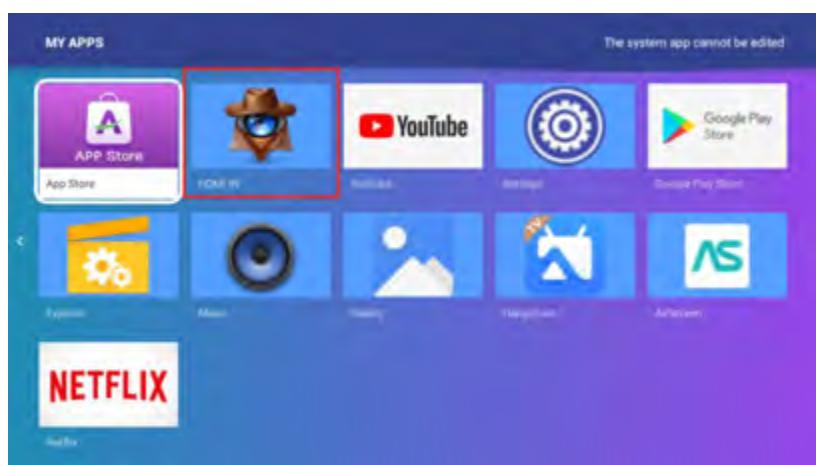
Sound Settings for HDMI Connections.

✧ Turn off Dolby audio in your device (such as TV stick/PS4/PS5).

✧ If there is no sound with Blu-ray Disc Player, please change the sound model to PCM on your DVD player.

- ◇ If there is no sound with Cable Box, change the sound model to PCM in your Cable Box.
- ◇ If there is no sound with a USB stick/TF card, please don't download the video with Dolby(AC3).
- ◇ If there is no sound with the Laptop/Macbook via HDMI connection, please change the laptops sound output to HDMI under Setting – sound – select HDMI as the sound output device.

4. USB Connection

Connect the USB flash driver to the projector and select **"My APP - >[More] - Explorer"** as the input source, then select USB flash driver to select (videos, pictures, musics and all files) then press OK to play, press the return key to exit.
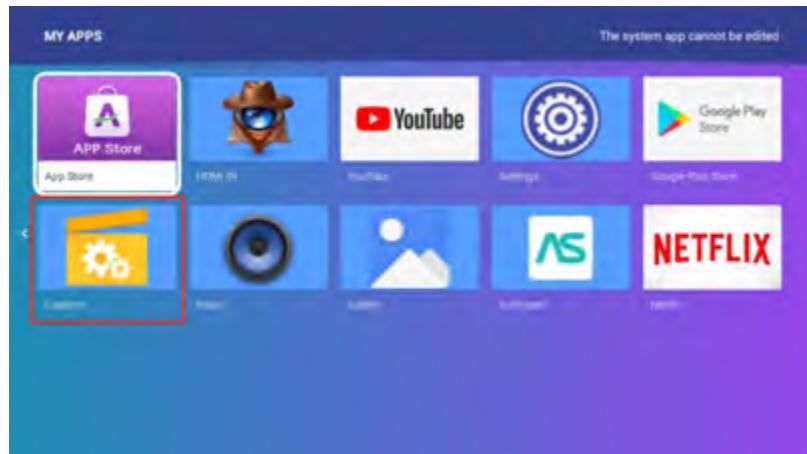
Local Player support format as following:

Video	Mp4,AVI,mov,mkv,flv,mpg,ts,3gp,VOB
Audio	AAC,amr,FLAC,m4a,mp2,mpga,ogg,Wav
Picture	JPEG,BMP,PNG,JPG

PROJECTOR SETTINGS

Network Settings

1. Go to the main Menu of the projector and choose [Settings].
2. Select [**Network Settings**] and Click [ON] to activate the WiFi function.
3. Find your home WiFi network name and input the password, click [NEXT] to connect.

4.Then press the return key to exit the WLAN interface.
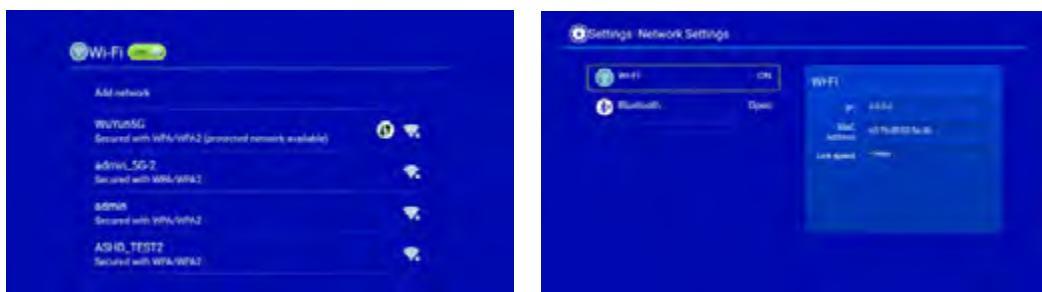
Note: Firstly, please try to turn on the hotspot of your smartphone and check if the projector can connect to your smartphone hotspot. If not, please reset the projector by Settings > Reset & Upgrade > Reset Data and reconnect to your WiFi again.

Bluetooth Settings

Turn on the projector and press the Menu/Home button on the remote control, select "Settings - Device - Network Settings", find "Bluetooth" and press OK to turn on Bluetooth, choose the device to be paired, and then select the return key to exit.
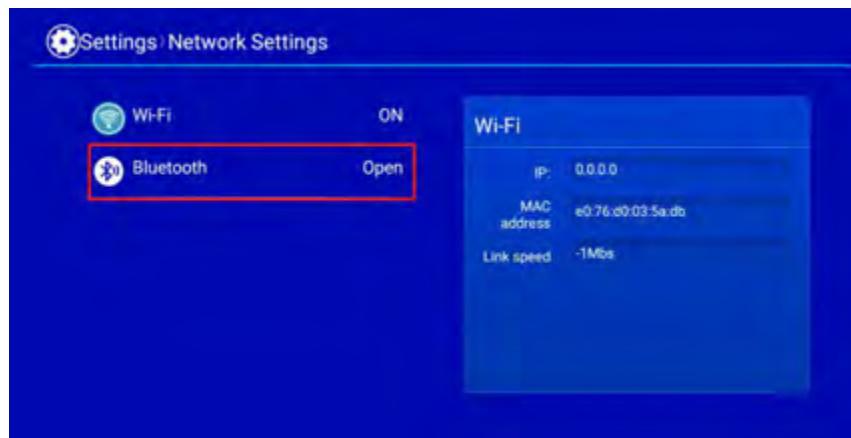
Notice: It's NOT support to connect with smart-phones via Bluetooth to realize screen sync.

Projection Settings
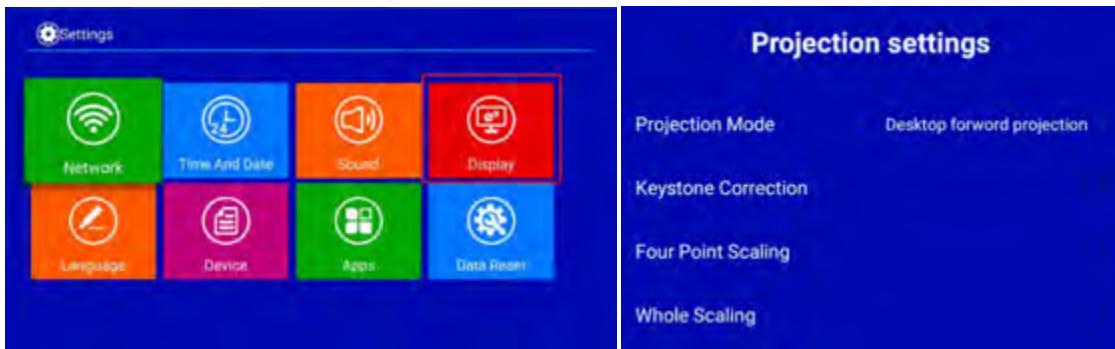
①Settings > **Projection Mode**: Front and Upside down.
②Settings > **Keystone Correction**: Electric Keystone to adjust four corners.
③Settings > **Four Point Scaling**: Vertical Correction and Horizontal Correction.
④Settings > **Whole Scaling→Zoom in/Out**: 100% - 40%.

BASIC PROJECTOR SETTINGS

Time & Date
Settings > Date and Time: Auto internet date and time or set the date and Timezone, Use 24-hours Format.

Sound Settings
Adjust the volume and press voice according to your needs.
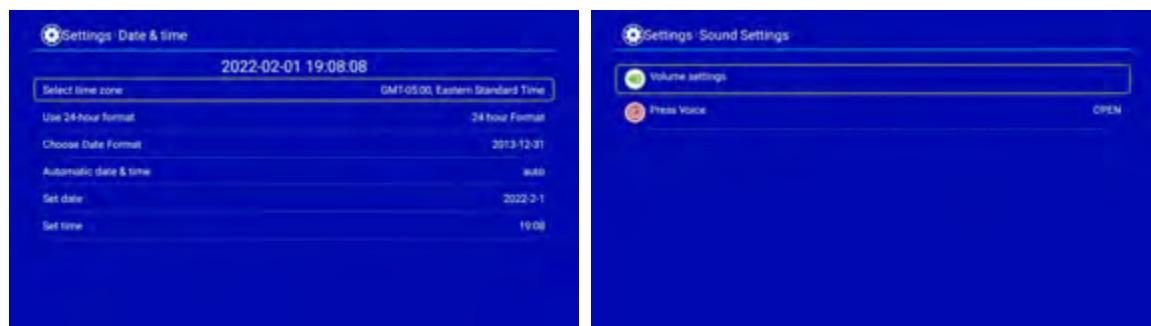
Language
Settings→Language Settings: Press OK enter language option to choose language.

Device Information
Check information of Model, Android System Version, Kernel Version, Build Number, RAM, ROM.

Apps

Check all of your apps, and **force stop/uninstall/clear cache** per your needs.

Reset & Upgrade

Settings→Factory Reset→Reset Data
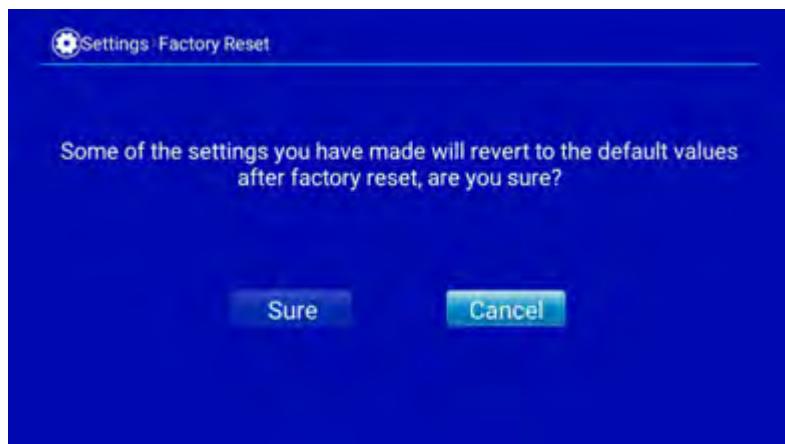
Settings > System Update

Online update or local update, and check the update record of the projector. To make sure the normal use of the projector, we suggest that customers activate the "automatic".

SPECIFICATIONS

Product Name	Smart Projector
Operation System	Android OS
Product Size	130*111*168MM
Display Technology	LCD
Light Source	LED
WiFi Connection	2.4G, 5G, WiFi 6
Bluetooth	Bluetooth 5.2
Focusing Method	Electric Focus
Keystone Correction Method	4D+4P Adjustment ±45°
Screen Ratio	4:3/16:9
Native Resolution	1080P
Contrast Ratio	20000:1
Projection Size	30-300Inch
RAM	2.0GB
ROM	16.0GB
Speaker	2x5W
Total Power	60W
Power Input	DC 20V, 3A
*Specifications and designs are subject to change without notice.	

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

· Reorient or relocate the receiving antenna.
· Increase the separation between the equipment and receiver.
· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
· Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.