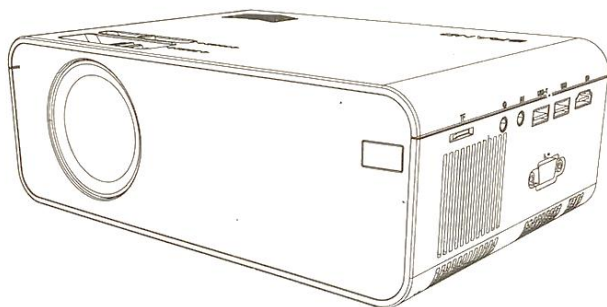


# BM-0156

## USER'S MANUAL



## Important safety considerations

### Attentions:

Thank you for purchasing this series of digital projector.

Please read through this "User's manual" for proper use of this product.

Please keep this manual together with the warranty card in a safe place for reference as needed after reading.

Please read this "User's manual" to find things you need to know in use or in case of problems.



### Note:

Do not open the enclosure to avoid electric shock. No components in the projector can be repaired by customers. Please entrust qualified professional maintenance personnel for repair.



The identification warns users of the voltage without insulating treatment in the projector, which may cause electric shock via surface magnetic field. Therefore, it's very dangerous to contact with any component inside the projector.



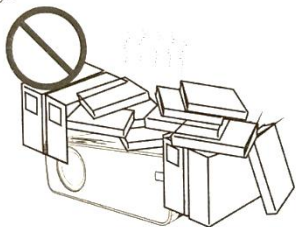
The identification reminds users to be very careful and cautious in the operation and maintenance. Therefore, carefully read the manual to avoid any failures.

### Warning

Do not expose the projector to rain or moisture to avoid fire or electric shock; do not open the enclosure.

## Important safety considerations

The following safety instructions ensure the long service life of the projector to avoid fire or electric shock. Make sure to carefully read them and pay attention to all the following warnings.



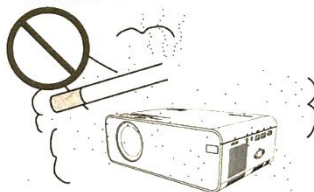
Do not install the projector in sites with improper ventilation.



Do not install the projector in hot and humid sites.



Do not block the ventilation holes (intake or exhaust)



Do not install the projector in dust and smoke sites.



Do not install the projector near the temperature and smoke transducer. It may cause a sensor failure.



Do not install the projector in sites with direct blowing of warm and cool air-condition wind. Otherwise it may cause the project failure due to moisture condensation or temperature increment.

# Important safety considerations

## Installation

- Please use the projector in a dark room for best results.
- Please use the projector with caution to avoid dropping or shocking, which may damage the internal components.

## Power Supply

- Use the power cord with caution to avoid unduly bending. Damaged power cord may cause electric shock or fire.
- Unplug the power cord from the outlet after using the projector.

## Cleaning

- Unplug the power cord from the projector.
  - Use a wet cloth to clean the cabinet regularly. Neutral detergent may be used for serious smudge. Do not use strong detergent or solvent such as alcohol or diluent.
  - Use an air brush or lens paper to clean the lens and be careful not to scratch or abrade them.
  - Please clean the ventilation opening and the loudspeaker regularly with a cleaner. The projector will be overheated with blocked dust, causing the failure.
- Please use the projector with a soft brush. Do not use rigid accessories, such as a crevice cleaning tool, to avoid damage to the projector.

## Notes on Fire and Electric Shock

- Make sure of adequate ventilation and blocked outlet to avoid heat accumulation within the projector.
- Prevent foreign objects from falling into the projector, such as paper clips and paper scraps, do not attempt to retrieve any such object. Do not insert any metal object, such as an iron wire or a screwdriver, into the projector. Make sure to immediately turn off the power and ask qualified professional maintenance personnel to remove any object falling into the projector.
- Do not place any liquid on the projector.

## Moving

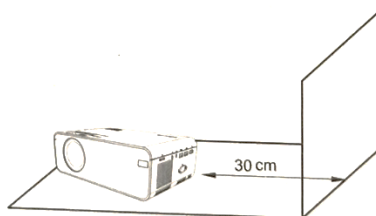
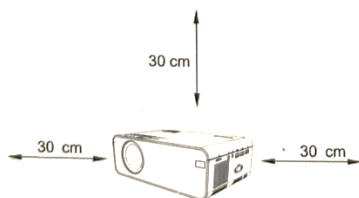
- Please use soft package materials and attach the lens cover to protect the lens when moving the projector. Also, do not impose severe mechanical vibration on the projector.

## High Temperature Warning

- During and after the projection, the temperature near the outlet will rise, therefore touching may cause burns. Do not peep at the lens, or it may cause severe eye injury.

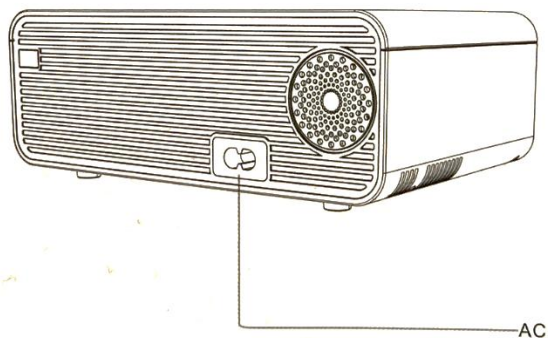
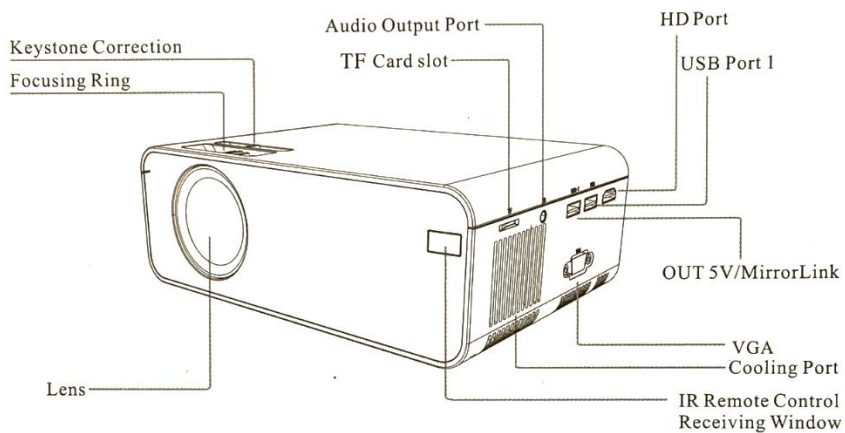
## Installed Away from Walls

- Please leave at least 30cm from the wall to maintain the projector's performance and reliability.



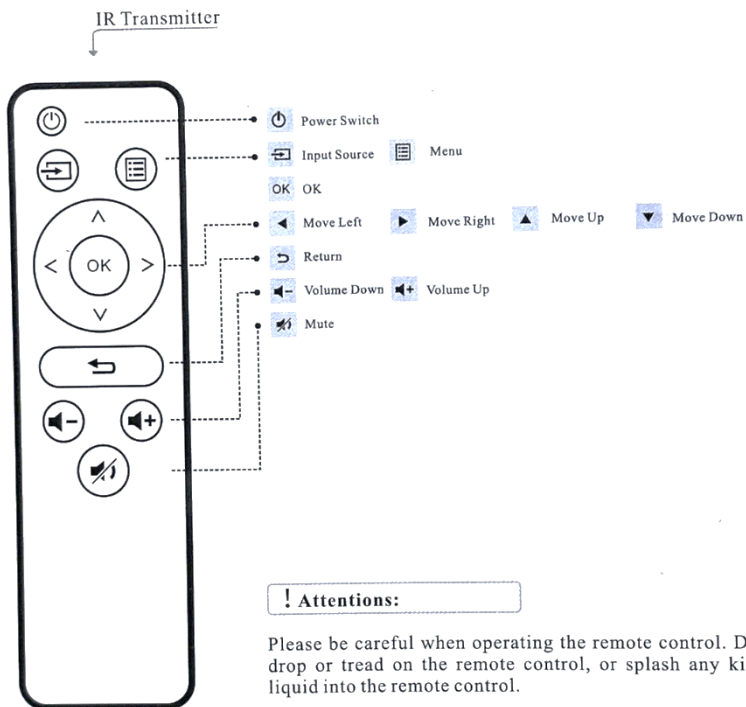
## Check Before Use

# Names and Functions of Projector Components



Check Before Use

## Get to Know the Remote Control (Multimedia Version)



Remote Control

### ! Attentions:

Please be careful when operating the remote control. Do not drop or tread on the remote control, or splash any kind of liquid into the remote control.

Do not place the remote control near a heat source, in a place exposed to direct sunlight or in a damp room.

# How to install and debug a projector quickly

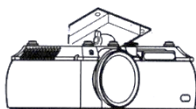
## Installation and Debugging

### 1 Install the Projector

You can choose to place the projector on the horizontal plane or attach it to a hanging bracket.



Horizontal Placement



Hanging Bracket Installation

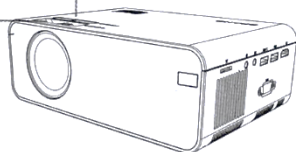
#### ! Attentions:

The hanging bracket is an accessory that is not supplied.

### 2 Adjust the Focal Length

Keystone Correction Ring

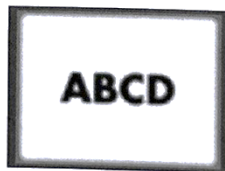
Focusing Ring



Distortion Image Diagram



Keystone Distortion



Blurred Image

Adjust the projector's keystone correction ring and the focusing ring to obtain a satisfactory image.

It is recommended to adjust the keystone correction ring in case of keystone distortion in the image (Figure 1 on the right).

When the screen image is blurred (Figure 2 on the right), it is recommended to adjust the focus ring to improve the picture definition.

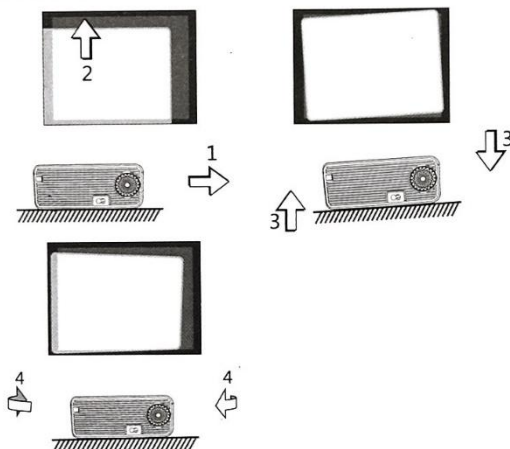
Please move forward or backward proportionally in case the adjustment is unable to obtain the satisfactory definition.

How to install and debug a projector quickly

## Installation and Debugging




### 3 Adjust the image projected on the screen

Check the horizontal and vertical screen settings



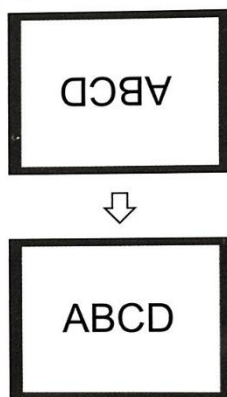
- (1) Please move the project to one side in case of left or right screen offsets. (Align the screen center to the projector lens center)
- (2) Please adjust with front adjuster for vertical offsets.
- (3) Please place the projector on a horizontal plane for angle offsets.
- (4) The projection screen as shown in the figure indicates the projector is not align to the screen. Please adjust the projector's location to align to the screen.

### 4 Safe Shutdown

- (1) Use the key  on the remote control to shutdown the projector.
- (2) Press and hold the key  on the control panel to shutdown the projector.
- (3) Press the soft key  on the Port and shutdown the projector according to the prompts (only effective for smart Android version).
- (4) Please unplug the power cord after the projector shutdowns to save energy. Press and hold the key on the control panel to shutdown the projector.

#### ! Attentions:

Change the projection mode in case the projector is hanging from the ceiling, or in a rear projection system.








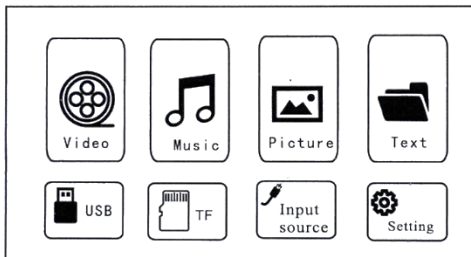
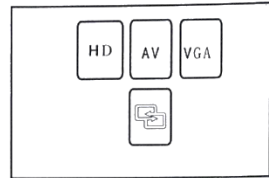
## How to install and debug a projector quickly

### Input Source Switching

The input source can be switched in the following ways.

1. Press the "S" key on the operation panel of the projector and choose the appropriate input source in the menu (as shown in the Figure on the right).
2. Press the "INPUT" key on the remote control to select the appropriate input source.
3. In the main screen, press the soft key  of the floating window on the right (as shown in the figure below), choose the appropriate input source (only for multimedia version), the icon  is lit up, indicating the USB disk is inserted; the icon  is lit up, indicating the TF card is inserted.

Input Source Selection Screen

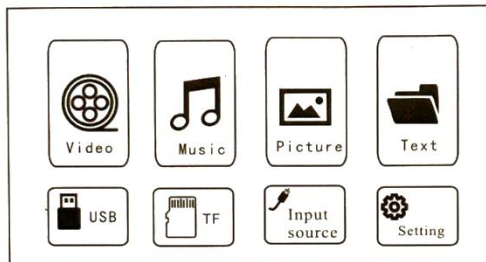


## Start Using

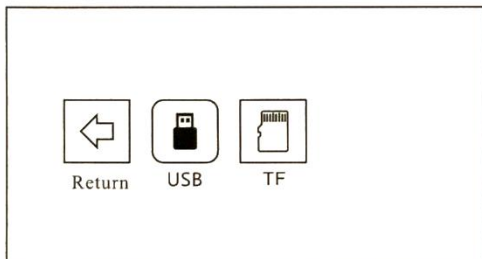
# Play A Video

Video files on the memory device can be played in the following steps.

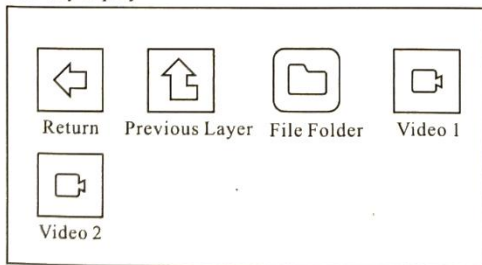
1. To play a video file, first select "Video" on the main screen, and then press the "OK" key on the operation panel.



Press the "<" and ">" on the operation panel to select the equipment for video storage. Press the "OK" key to enter the next step.



Press the "<" and ">" on the operation panel to select the appropriate video (or folder to enter the subfolder). Press the "OK" key to play



### ! Attentions:

Taking into consideration of continuous man-machine interaction optimization, the product software Port will be maintained and updated from time to time without prior notice of any change, please refer to the real product, thanks for understanding.

### ! Attentions:

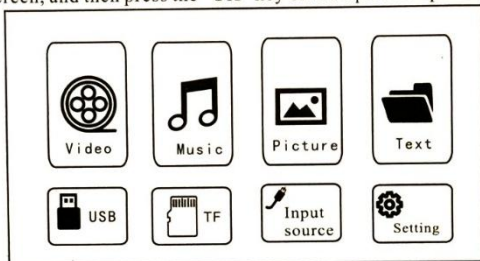
The video content can be viewed by staying the cursor on the selected video for over 3 seconds.

Only MP4, RMVB, AVI, RM, MKV and other video formats are supported in video playing.

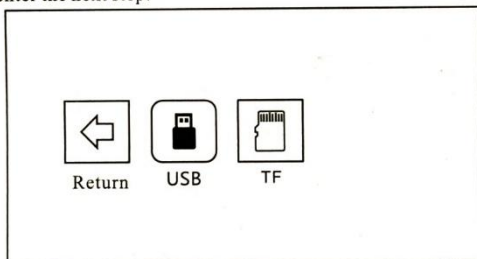
## Start Using Play Music

Music files on the memory device can be played in the following steps.

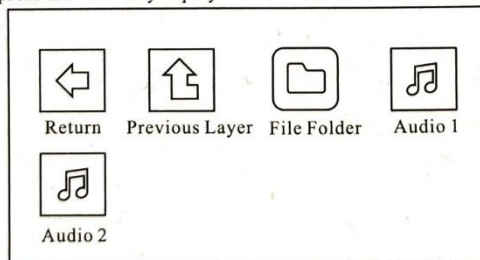
(2) To play a music file, first select "Music" on the main screen, and then press the "OK" key on the operation panel.



(2) Press the "<" and ">" on the operation panel to select the equipment for music storage and then press the "OK" key to enter the next step.



(3) Press the "<" and ">" on the operation panel to select the appropriate video (or folder to enter the subfolder), and then press the "OK" key to play.



### ! Attentions:

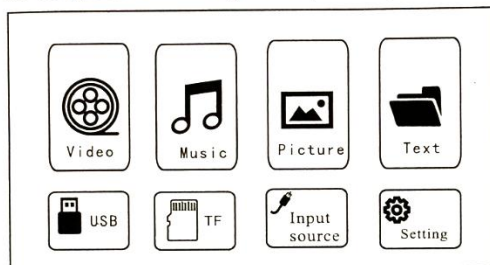
Only audio formats such as MP3, WMA, OGG, AAC, FLAC, APE, WAV etc. are supported for video playing.

## Start Using

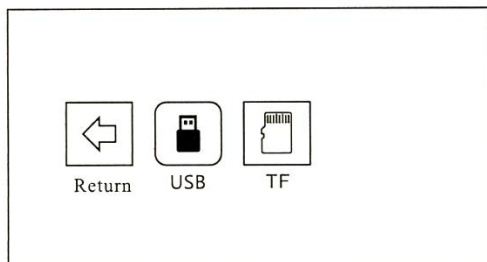
# Play Image

Image files on the memory device can be played in the following steps.

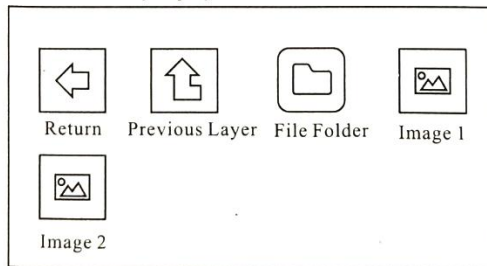
1. To play an image file, first select “Image” on the main screen, and then press the “OK” key on the operation panel.



2. Press the “<” and “>” on the operation panel to select the equipment for image storage.



3. Press the “<” and “>” on the operation panel to select the appropriate image (or folder to enter the subfolder), and then press the “OK” key to play.



### ! Attentions:

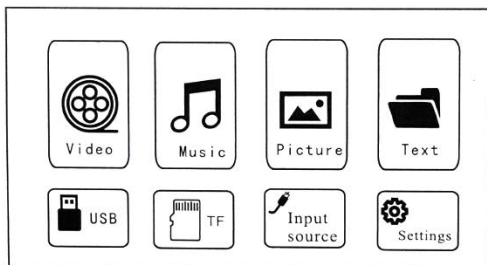
The image content can be viewed by staying the cursor on the selected image for over 3 seconds.

Only JPG/JPEG, BMP, PNG and other image formats are supported for image playing.

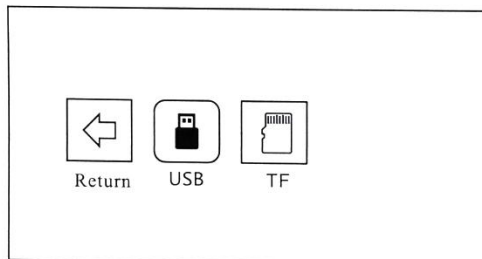
## Text Using Play A Text

Text files on the memory device can be played in the following steps.

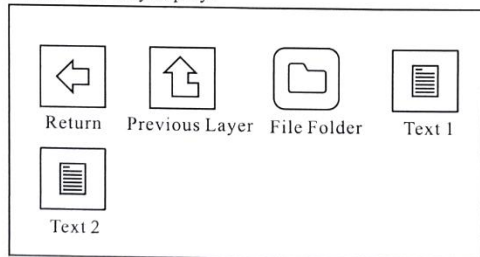
(1) To play a text file, first select "Text" on the main screen, and then press the "OK" key on the operation panel.



(2) Press the "<" and ">" on the operation panel to select the equipment for text storage.



(3) Press the "<" and ">" on the operation panel to select the appropriate text (or folder to enter the subfolder), and then press the "OK" key to play.



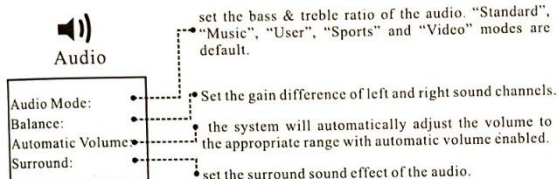
### ! Attentions:

The image content can be viewed by staying the cursor on the selected image for over 3 seconds.

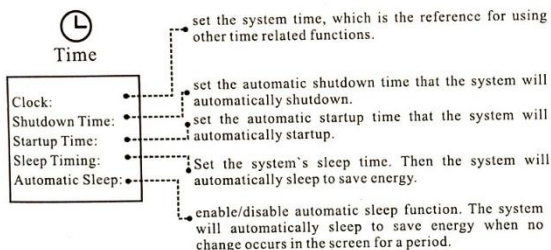
Only txt format is supported for image playing.

# Projection Settings (Multimedia Version)

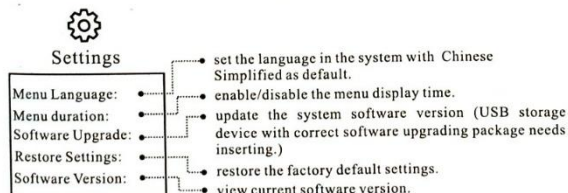
4. Options related with "Audio" are set in this screen.



5. Options related with "Time" are set in this screen.



6. Options related with "Settings" are set in this screen.

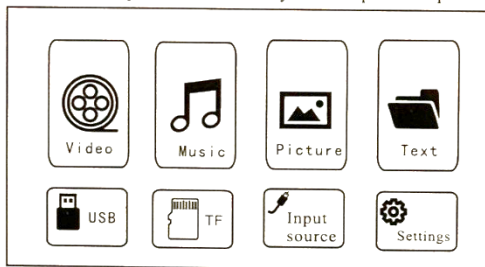


## Start Using

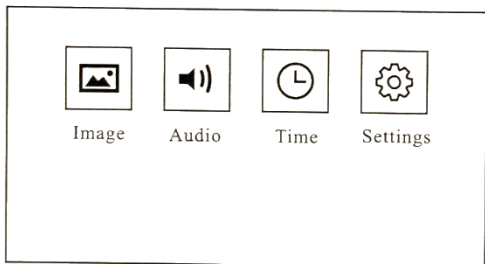
# Projection Settings (Multimedia Version)

Get a better viewing effect with appropriate settings. The main content of the projection can be set in the following steps.

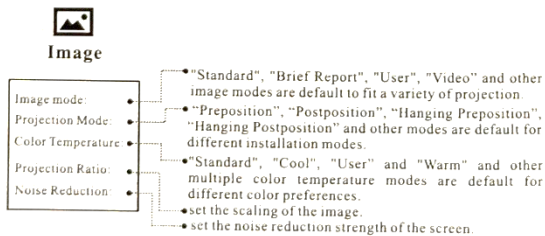
(1) It needs setting, first select "Settings" on the main screen, and then press the "OK" key on the operation panel.



(2) "Image", "Sound", "Time", "Settings" can be set. Press the "<" and ">" on the operation panel to select the range of settings.

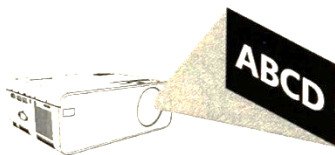


(3) Options related with "Image" are set in this screen.

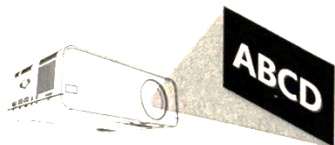


### ! Attentions:

Different installation modes of the projector are as follows:



Normal Installation



Hanging Installation

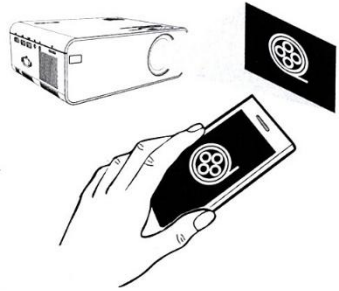
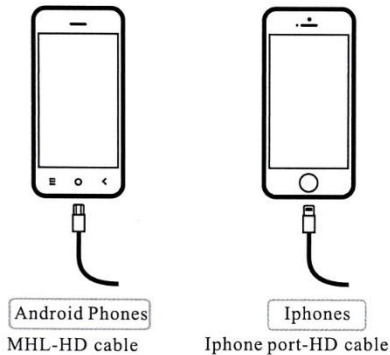
## Start Using

### Synchronize mobile phone screen Screen matching function

The display content in the mobile phone screen can be synchronized on the projection screen in the following steps. It is convenient for enjoying videos and images, or a simple business meeting in a larger screen.

Figure of mobile phone screensynchronization  
Screen matching function

1. Access the MHL end of the MHL-HDML cable (not supplied) to the MHL port of a Android Phone. Access the Lightning port of the Lightning-HD cable (not supplied) to an iphone.



2. Access the HD end to HD port of the projector, and set the input source to the "HD Input". It is recommended to set the mobile phone screen to "Landscape" to get a better effect.



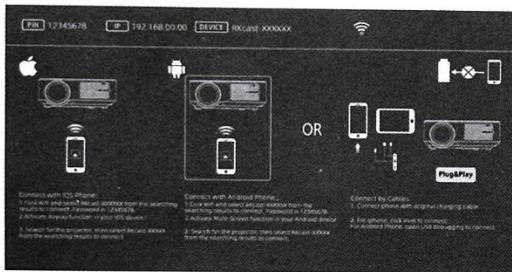
## Start Using

### Only for Mirror Screen function machine

#### For Android phones

##### 1. For Android System (wireless connection)

- To activate this function, your android device must support Multi-Screen/Wireless display. Names may differ from different devices.
- Turn on the projector, select Screen Mirroring as the Input Source, then choose Android on the projector interface of Screen Mirroring for Android System.



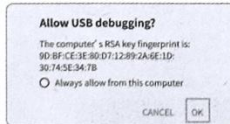
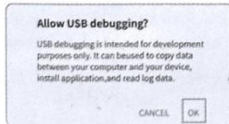
- Turn on the Wi-Fi Switch in your Android device. Successfully connected Wi-Fi on Android device is not a must unless the live streaming content is needed.
- Activate Multi-Screen function in your Android device and search for the projector
- Select RKcast-XXXXXX from the searching results to connect.
- Your Android device display will be projected to the wall/screen after a successful connection
- The fluency of screen mirroring with wireless connection will be affected by the network environment. A bandwidth of 100Mbit or more is recommended when using screen mirroring.
- Make sure your mobile device is closed to the projector when using wireless connection. A distance within 1 meter is recommended.
- Some mobile devices may not support screen mirroring due to the compatibility.

## Start Using

### Only for Mirror Screen function machine

#### 2.For Android System (wired connection)

- Turn on the projector, select Screen Mirroring as the input source, then choose iPhone on the projector interface of Screen Mirroring for Android System.
- Go to the settings of your mobile device, find Developer options and turn on USB Debugging.
- The steps to turn on Developer options vary from different models of Android device. You may check it from Internet or contact us for the detailed steps. We take Samsung Galaxy S8+ as an example
- Go to settings of your Android device, then tap About phone > Software information> Build number. Continuously tap on Build number for several times until it shows Developer mode had been turned on. Get back to the settings of your mobile device, it will show Developer options.
- Connect your Android mobile device to the USB port of the projector with the ORIGINAL USB cable.
- Tap OK when your Android mobile device pops out. the windows of Allow USB debugging, then your Android device will be projected to the wall/screen.



- The USB cable MUST be the ORIGINAL cable or the cable which can transfer the data, otherwise screen mirroring may fail. You can plug the cable into your laptop to check the availability of transferring the data.
- Some mobile devices may not support screen mirroring due to the compatibility.
- Some Android mobile devices may only transfer the display without audio due to the protocol restrictions.

## Start Using

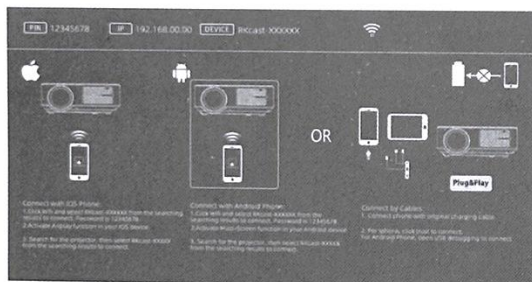
### Only for Mirror Screen function machine

For iPhone phones

#### 1. For iOS system

##### Setting with cellular data (wireless connection)

- Turn on the projector, select Screen Mirroring as the input source to enter the interface of Screen Mirroring for iOS system.



- Go to the settings of your iOS mobile device and connect it to the Wi-Fi of RKcast-XXXXXX (password: 12345678). Please ignore the exclamation mark before it.
- Swipe up the screen of your iOS mobile device, then tap Screen Mirroring/AirPlay Mirroring and search for the projector.



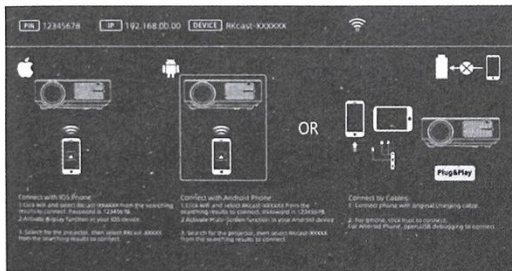
## Start Using

### Only for Mirror Screen function machine

- Select RKcast-XXXXXX from the searching results to connect
- The display of your iOS mobile device will be projected to the wall/screen via cellular data after a successful connection.

#### Streaming with your router's Wi-Fi (wireless connection)

- Turn on the projector, select Screen Mirroring as the input source to enter the interface of Screen Mirroring for iOS system



- Go to the setting of your iOS mobile device and connect it to the Wi-Fi of RKcast-XXXXXX (password: 12345678)
- Visit <http://192.168.49.1> from a browser on your mobile device, tap Wi-Fi AP > Scan, select your router's Wi-Fi and enter the right password, then tap Connect to continue.



- Your router's Wi-Fi will be displayed on interface of Screen Mirroring for iOS System after a successful connection.
- Get back to the Wi-Fi setting of your iOS mobile device, then connect it to the same router's Wi-Fi,
- Swipe up the screen of your iOS mobile device and tap Screen Mirroring to search for the projector, then select RKcast-XXXXXX from the searching results to connect.

## Start Using

### Only for Mirror Screen function machine

- The live streaming content from your iOS mobile device will be projected to the wall/screen through Wi-Fi connection. If you'd like to connect to another router's Wi-Fi, please repeat the procedures mentioned in the section of Streaming with your router's Wi-Fi.

#### 2. For iOS System

##### Screen Mirroring with the USB Cable (wired connection)

- Turn on the projector, select Screen Mirroring as the input source to enter the interface of Screen Mirroring for iOS System.
- Connect your iOS mobile device to the USB port of the projector with the ORIGINAL lightning cable.
- Select Trust in the pop-up window of Trust This Computer.



- The display of your iOS mobile device will be projected to the wall/screen after a while.

## Start Using

### Wi-Fi Connection only for Android Version (Luna X)

Power ON the projector & you will see the home page as shown in the images (right side)

- Go to Settings option ( check picture )  
Go to Network options then click & enter  
Turn ON the Wi-Fi & search for the available  
Wi-Fi networks & get connected



- For Bluetooth connection, go to settings option then click on Bluetooth Icon & turn ON the Bluetooth and search for the available other Bluetooth devices in 10 Meters of range and get connected



### Applications & Installations

- In the System there are many pre-installed applications such as Youtube, Netflix, Amazon Prime, Browser, Google chrome etc as you can see the images
- For installing any other application Go-to Google Playstore & find application and install



#### Note :

1. For selecting any content or reaching to any text directly you can change the key-button cursor into mouse mode.

Mouse Mode : Long press the "Menu Button" for 3sec to change it into Mouse mode. To go back to the regular mode press the "Menu Button" for 3sec.

2. In "regular Mode" you can operate & Type with the On-screen keyboard by using Remote keys.

In Luna X, you can directly go through the Miracast mode by clicking on the Icon shown on the Home page of projector.



FC



CE



# CAUTION

No components that can be repaired by users exist in the projector. Do not open the projector without authorization to avoid electric shock. Contact your authorized professionals for repair as needed.