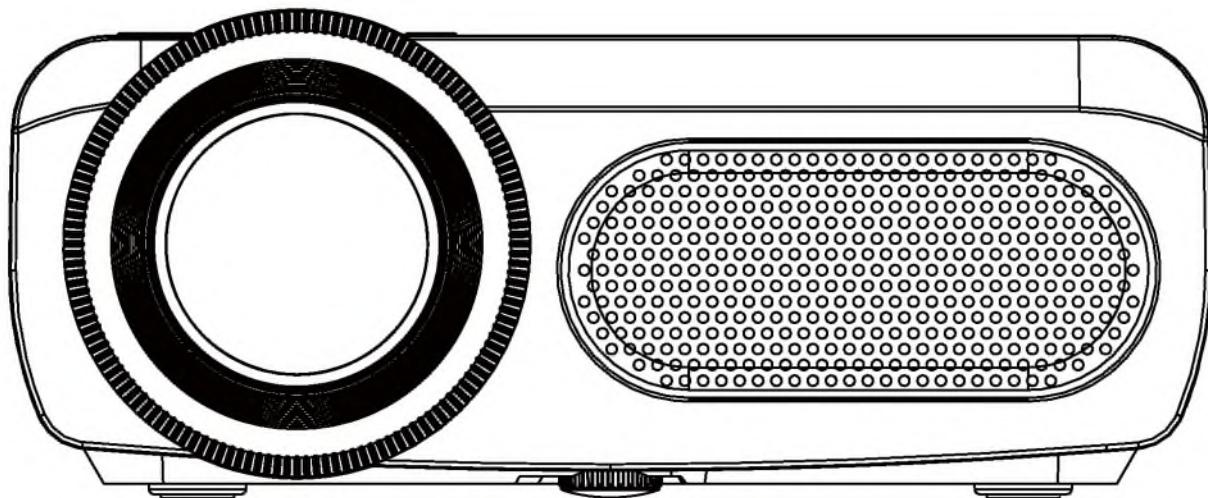


# **zerosky**

## **Home Theater Projector with BT INSTRUCTION MANUAL**

**MODEL NO. : PJ-32C**



**PLEASE READ BEFORE OPERATING THIS EQUIPMENT**

# **Important Safety Instructions**

1. Read these Instructions.
2. Keep these Instructions.
3. Heed all Warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifier) that product heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



## **Additional Warnings and Precautions**

1. Do not look directly into the projector light.
2. **Don't touch the project lens**
3. Mains adapter is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
4. **CAUTION:** Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.
5. **WARNING:** Changes or modified to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
6. **WARNING:** Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.
7. **WARNING:** Shock hazard - Do Not Open.
8. Caution and marking information is located at the rear or bottom of the apparatus.
9. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain, moisture, dripping, or splashing.
10. Objects filled with liquids, such as vases, shall not be placed on the apparatus.

## **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 interference received, including interference that may cause undesired operation.

**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 interference to 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.

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

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

## **In The Box**

Main Unit

Lens Cover

Remote

AC Power cord

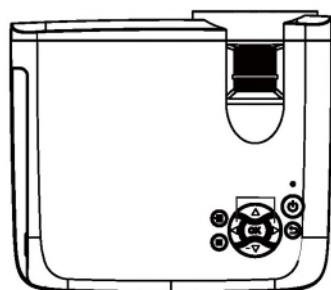
User Manual

# **Table of Contents**

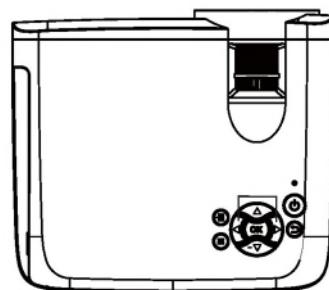
<b>Important Safety Instructions</b> -----	<b>P1</b>
<b>Additional Warnings and Precautions</b> -----	<b>P2</b>
<b>FCC Warning</b> -----	<b>P3</b>
<b>In The Box</b> -----	<b>P3</b>
<b>Table of Contents</b> -----	<b>P4</b>
<b>Remove &amp; Close the Lens Cover</b> -----	<b>P5</b>
<b>Placing of Your Projector</b> -----	<b>P5</b>
<b>To Reduce Image Distortion</b> -----	<b>P6</b>
<b>Distance Between The Projector And Screen</b> -----	<b>P6</b>
<b>Installing your Projector in the Ceiling</b> -----	<b>P6</b>
<b>Adjust The Vertical Location</b> -----	<b>P7</b>
<b>Adjust The Focus And Keystone</b> -----	<b>P7</b>
<b>Controls of Remote</b> -----	<b>P8</b>
<b>Install / Remove Batteries of Remote</b> -----	<b>P8</b>
<b>Controls of Projector</b> -----	<b>P9</b>
<b>Install Power Adapter</b> -----	<b>P10</b>
<b>Main Button Operation</b> -----	<b>P10</b>
<b>Connect HDMI show the Image On Projector Screen</b> -----	<b>P11</b>
<b>Connect AV Show The Image On Projector Screen</b> -----	<b>P11</b>
<b>Connect VGA Show The Image On Projector Screen</b> -----	<b>P12</b>
<b>Connect Audio Output (Aux Out / Line Out / Earphones)</b> -----	<b>P13</b>
<b>Install USB Device And Micro SD Card “TF”</b> -----	<b>P13</b>
<b>Using TF Card and USB Playback DMP (Media Player)</b> -----	<b>P14</b>
<b>Using Bluetooth Playback</b> -----	<b>P15</b>
<b>Multi-screen interactive connection for phone and projector</b> -----	<b>P16</b>
<b>Using Projector Menu 1</b> -----	<b>P17</b>
<b>Using Projector Menu 2</b> -----	<b>P18</b>
<b>Using Projector Menu 3</b> -----	<b>P18</b>
<b>Specifications</b> -----	<b>P19</b>

# Remove & Close The Lens Cover

Remove the lens cover before using

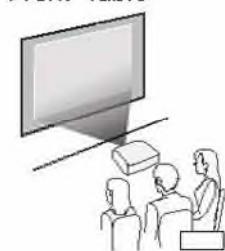


Close the lens cover when unit is not using



# Placing of Your Projector

Front Table

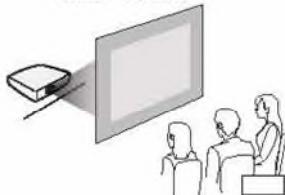


Your projector can be installed in four different configurations (see picture below):

## Front Table:

Select this location with the projector placed near the floor in front of the screen. This is the most common way to position the projector for quick setup and portability.

Rear Table

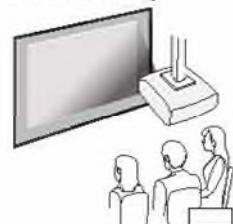


## Rear Table:

Select this location with the projector placed near the floor behind the screen.

**NOTE:** That a special rear projection screen is required.

Front Ceiling

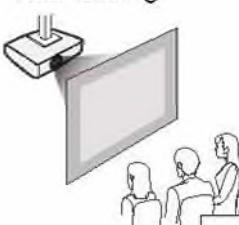


## Front Ceiling:

Select this location with the projector suspended upside-down from the ceiling in front of the screen.

**NOTE:** A projector mount is required to install the projector in a ceiling.

Rear Ceiling



## Rear Ceiling:

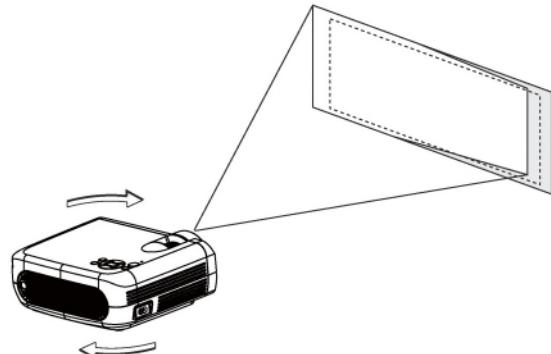
Select this location with the projector suspended upside-down from the ceiling behind the screen.

**NOTE:**

A projector mount is required to install the projector in a ceiling.  
A special rear projection screen is required.

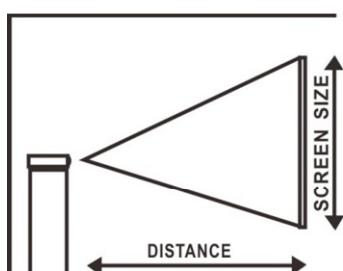
## To reduce Image Distortion

- Move the projector as close to the center of the screen as possible.
- The light beam from the projector should be perpendicular to the screen for a rectangular or square image.



## Distance Between The Projector And Screen

Measure the distance between the projector and where you want to position the screen. This is the projection distance.



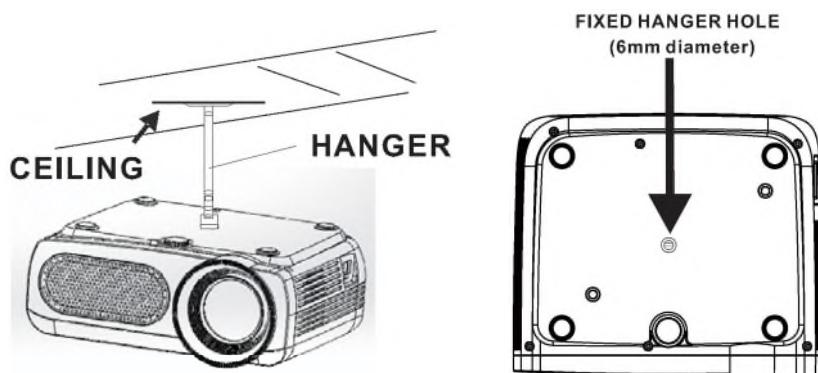
Distance	Screen Size
1.16m	37inch
1.35m	45 inch
1.51m	50 inch
1.79m	60 inch
2.15m	72 inch
2.81m	100 inch
3.43m	120 inch
4.44m	150 inch

## Installing your Projector in the Ceiling

When installing the projector in the ceiling, please purchase a projector mount recommended by an installation professional and follow the instructions that come with the mount.

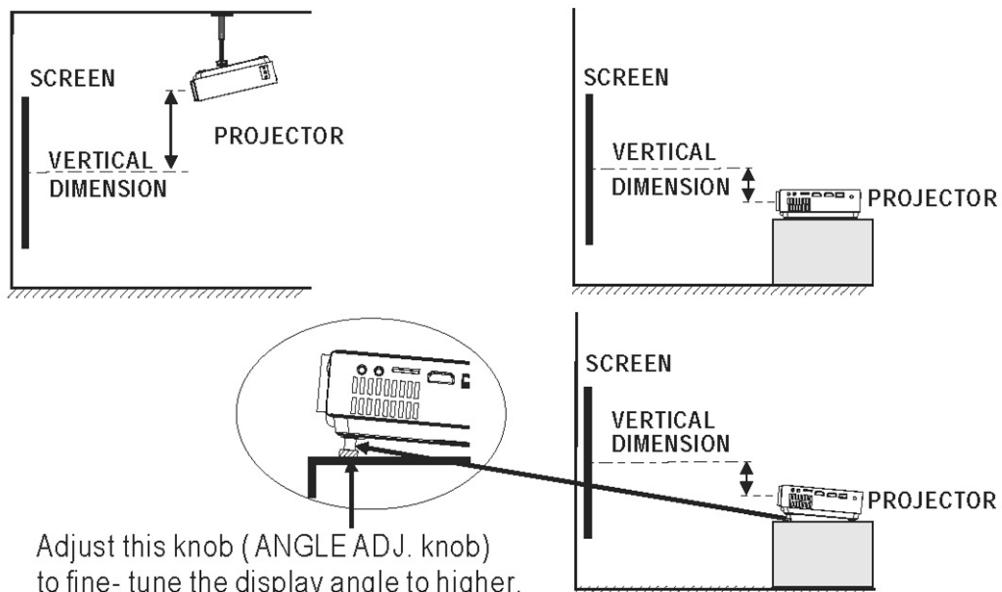
Before installing the projector in the ceiling, please check to make sure the ceiling structure can support the weight of the projector and the mount. If in doubt, please ask the advice from an installation professional.

**NOTE:** Projector mount and screw(s) not included



## **Adjust The Vertical Location**

Follow below picture to adjust the vertical location.

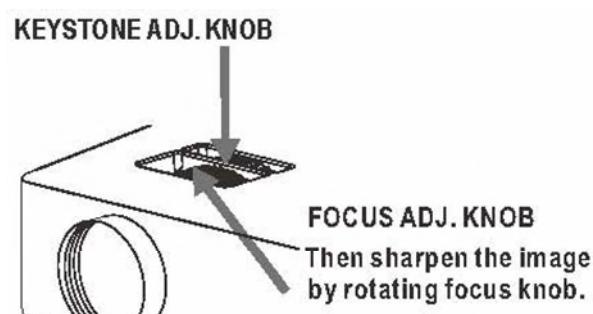


## **Adjust The Focus And Keystone**

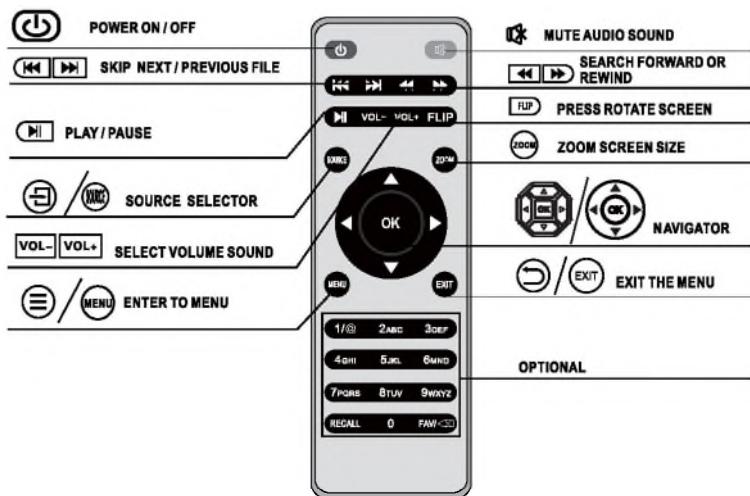
Follow below picture to adjust the focus and trapezoidal screen.

Adjust the focus by turning the knob while observing the image pixels near the center of the screen. Optimal focus is obtained when the pixels are clearly visible. Depending on the projected screen size, the focus near the screen edges may be less sharp than the screen center.

Keystone image is created when the projector lens is projected from above or below the center of the screen. Keystone correction restores the distorted image to a rectangular or square shape.



## Controls of Remote

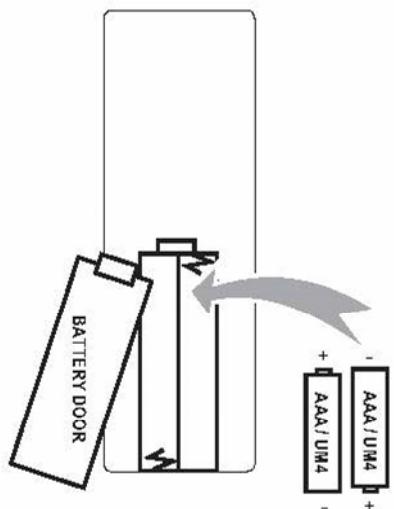


## Install / Remove Batteries of Remote

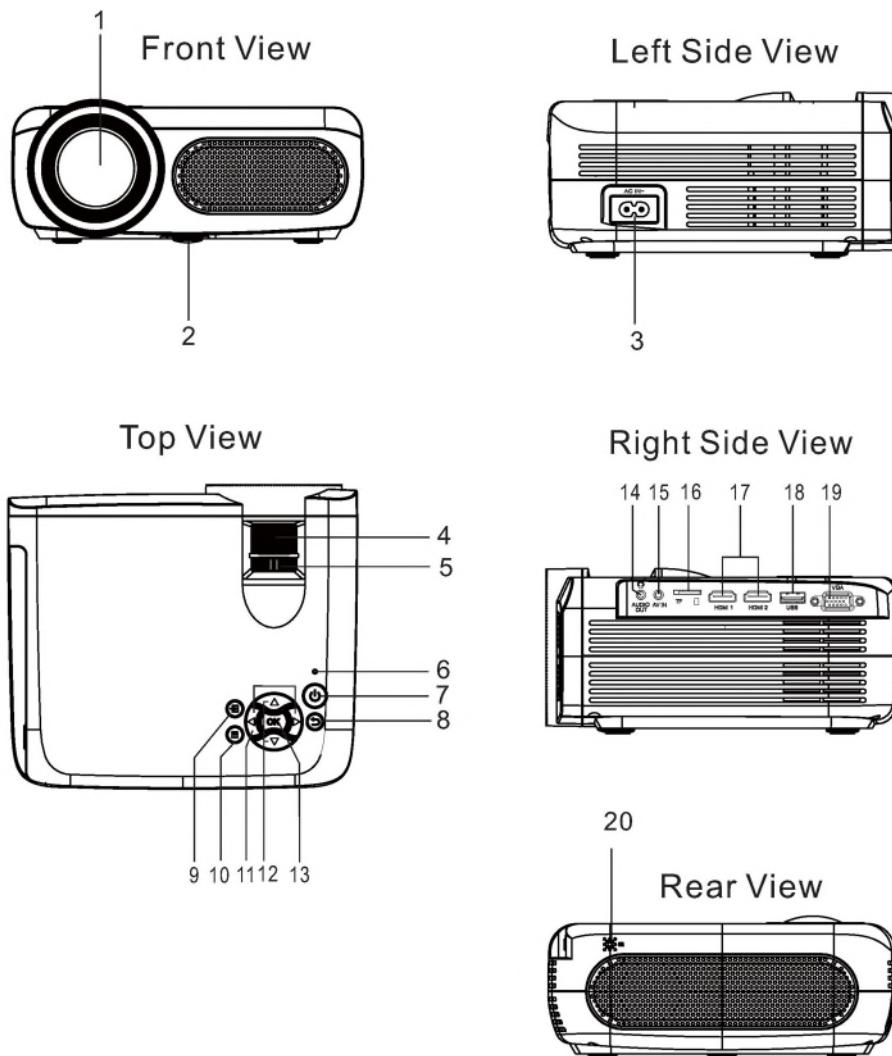
Remove the battery compartment cover on the back of your remote by carefully sliding to open. The battery cover can then be lifted away. Fit the correct batteries (not included), referring to the polarity markings. Finally, replace the cover.

### **NOTES:**

- Batteries shall not be exposed to excessive heat such as placing under the sunlight or near a fire.
- Please make sure the batteries are installed with their correct polarities.
- Do not mix old and new batteries.
- Use only the same type of batteries.
- Do not dispose of the batteries in fire, battery may explode or leak.
- Do not recharge a non-rechargeable battery.



## Controls of Projector

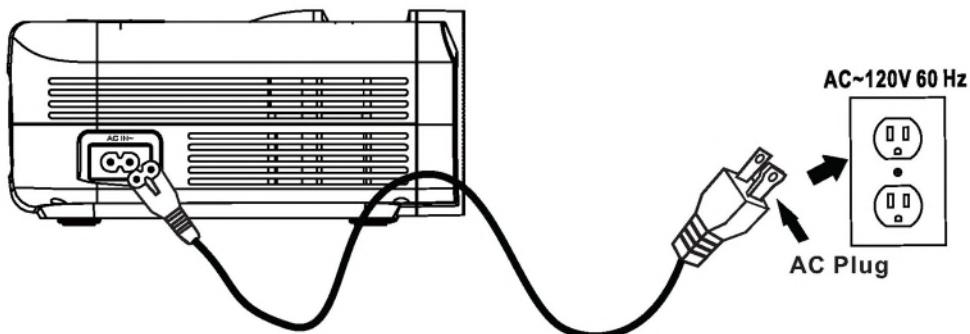


1	LENS	11	◀ ▶ Buttons
2	ANGEL ADJ. Knob	12	▲ ▼ Buttons
3	AC IN Socket	13	OK Button
4	FOCUS ADJ. Knob	14	Audio out Jack
5	TRAPEZOIDAL ADJ. Knob	15	AV IN Jack
6	POWER Indicator	16	TF Card Slot
7	POWER <b>U</b> Button	17	HDMI 1 & 2 Ports
8	RETURN <b>U</b> Button	18	USB Port
9	SOURCE <b>U</b> Button	19	VGA IN Port
10	MENU <b>U</b> Button	20	IR Sensor

## Install Power Adapter

Follow below picture to connect power cable

Connect small end of cable **FIRST**. Plug the AC plug to power outlet.



**WARNING:**

Before connecting to the power supply, ensure that the supply corresponds to the information on the rating label at the back of the apparatus.

## Main Button Operation

 - Press the button to switch on unit, press again to turn off.

 / **SOURCE** - Press the button to select input source.

 /  **MENU** - Press the button to enter projector menu.

 - Press the buttons to navigate and select screen item of menu.

 /  **EXIT** - Press the button to return to previous status or exit the menu.

 - Press the buttons to fast search forward and rewind on USB / TF.

 - Press the buttons to search next or previous file on USB / TF.

**VOL+ / VOL** - Press the buttons to select the sound level.

 - Press the button to play/pause the playback of file on USB / TF card.

**FLIP** – Press the button to rotate / mirror projector screen

**ZOOM** - Press the button to select image scale.

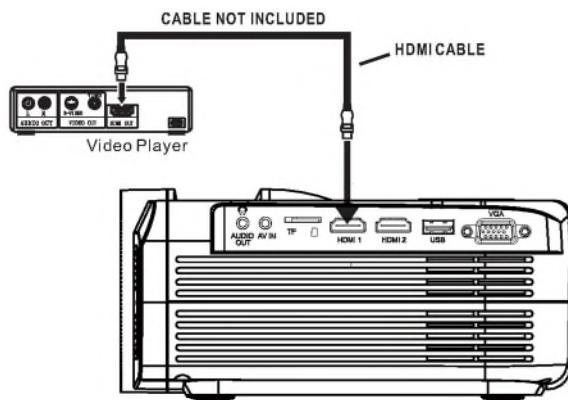


- Press to mute the audio. Press again to resume.

## Connect HDMI Show The Image On Projector Screen

Refer to the following picture to connect a set top box, a BD/DVD player or a streaming player to the HDMI input.

1. Turn off the unit before connect HDMI cable.
2. After connection, press the button to turn on unit and power indicator will light GREEN
3. Press the / **SOURCE** button to select HDMI 1 or HDMI 2 and the video from the connected device will be shown on projector screen.
4. Press the button to turn off unit power.



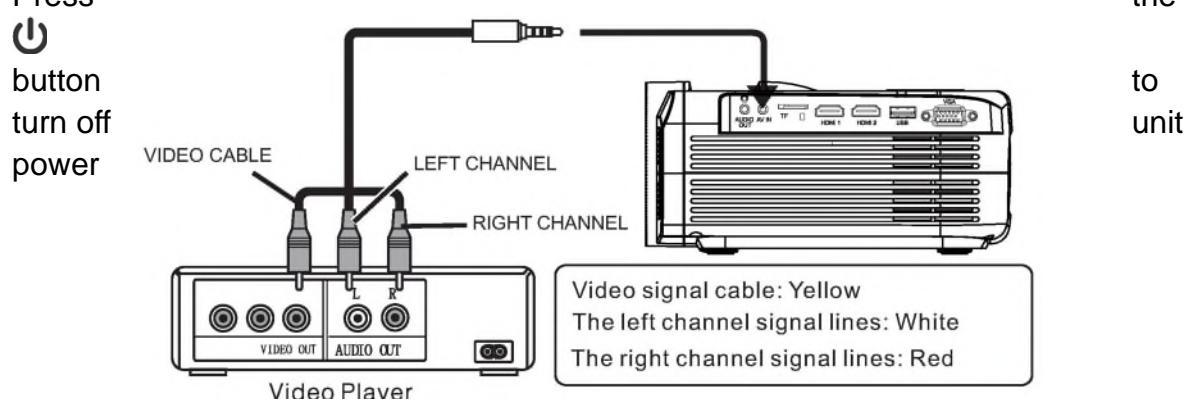
### **Important Note:**

If there is no sound from the internal speakers when playing media contents from a set top box, BD/DVD or streaming players connecting to the HDMI input, please check the set top box or the player's digital audio settings and make sure it is set to "PCM Stereo" mode.

## Connect AV Show The Image On Projector Screen

Follow below picture to connect AV cable and device.

1. Turn off the unit before connect AV cable.
2. Use AV cable to connect follow below figure
3. After connect, press the button to turn on unit and power indicator will light GREEN
4. Press the / **SOURCE** button to select AV mode and the video of AV device will show on projector screen
5. Press button to turn off the unit

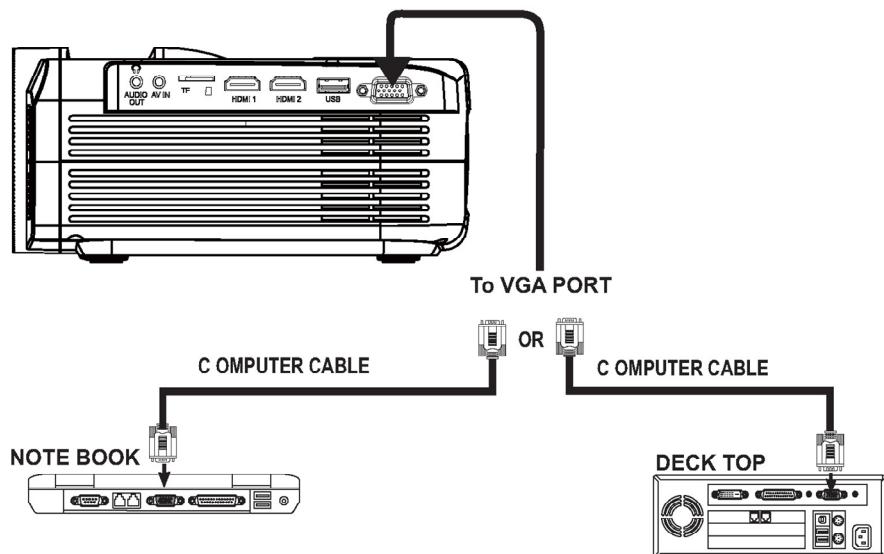


Video signal cable: Yellow  
The left channel signal lines: White  
The right channel signal lines: Red

## **Connect VGA Show The Image On Projector Screen**

Follow below picture to connect VGA cable and device.

1. Turn off the unit before connect VGA cable.
2. Press the  button to turn off power of your projector before connection.
3. After connect, press the  button to turn on unit and power indicator will light GREEN
4. Press the  / SOURCE button to select VGA mode and the video of VGA device will show on projector screen
5. Press the  button to turn off unit power.



**Please refer to the following table to adjust the output signal from computer**

Type	Resolution		Frequency	Field Frequency
PC	VGA	640x480	31.5	60
			34.7	70
			37.9	72
			37.5	75
	SVGA	800x600	31.4	50
			35.1	56
			37.9	60
			46.6	70
			48.1	72

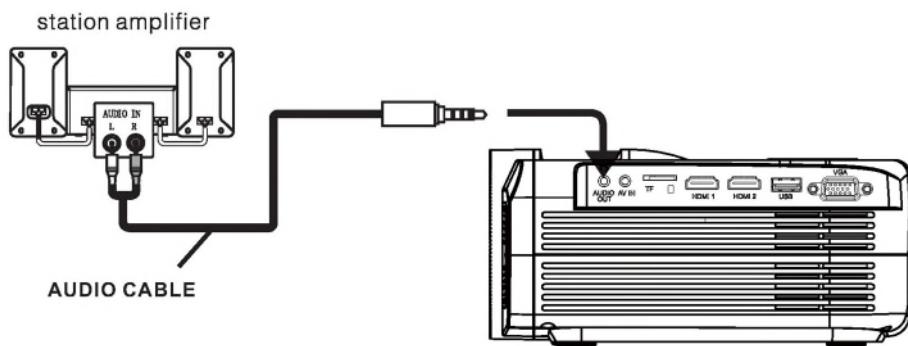
			46.9	75
			40.3	50
			48.4	60
			56.5	70

**NOTE: In order to get the sound from the unit, please connect AV IN cable when you connect VGA input.**

## **Connect Audio Output ( Aux Out / Line Out / Earphones)**

Follow below picture to connect audio cable and device.

1. Press the  button to turn off power of your projector before connection.
2. Use audio cable to connect follow below figure.
3. After connect and turn on both units. Your projector sound from external device now.
4. After using , turn off both unit



### **Important Note:**

If there is no sound from the stereo audio output when playing media contents from a set top box, BD/DVD or streaming players connecting to the HDMI input, please check the set top box or the player's digital audio settings and make sure it is set to "PCM Stereo" mode.

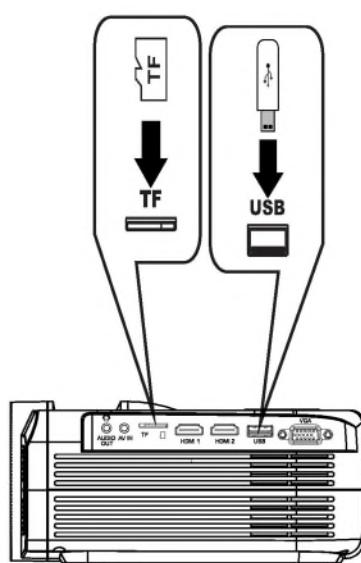
## **Install USB Device And Micro SD Card “TF”**

Follow below picture to

Turn off the unit before

install USB and TF card

install USB / TF card.

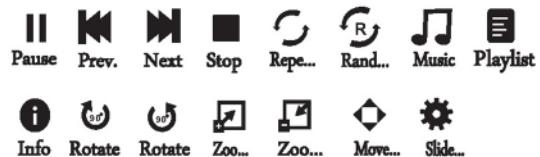


## **Using TF Card And USB Playback DMP (Media Player)**

Install USB / TF device:

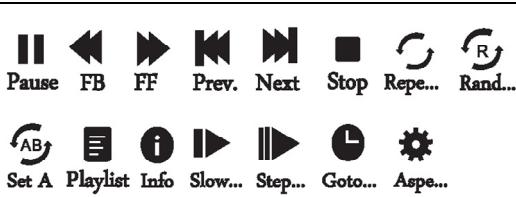
1. Turn off the unit before install USB / TF card.
2. Install the USB device into USB port.
3. After connect, press the  button to turn on unit and the power indicator light GREEN.
4. Press the  / **SOURCE** button to enter and use  buttons to search the DMP mode.
5. After selection, use  buttons to search the PHOTO / MUSIC / MOVIE icon and press the  button to enter. If necessary, use the  button to select TF card or USB and press the  button to enter.
6. Use  buttons to search the correct file and press the  button to preview playback file and press the  / **EXIT** button or  button of remote to start playback.
7. Press  button to fast search forward and rewind.
8. Press  button to search next or previous file.
9. During playback, press the  button to pause and press again to resume.

**NOTE:** Remove USB / TF device, press the  button to turn off power **FIRST**.

<b>Sub-Menu on Photo screen</b>	
1. When photo playback, press the  button and more function screen show on lower (figure 1). 2. Use the  button to select icon and press the  button to play special function.	Figure 1. 
<b>Sub-Menu on Music screen</b>	
1. When music playback, press the  button and more function screen show on lower (figure 2). 2. Use the  button to select icon and press the  button to play special function.	Figure 2. 
<b>Sub-Menu on Movie screen</b>	
1. When movie playback, press the  button and more	Figure 3.

function screen show on lower (figure 3).

2. Use the **◀/▶** button to select icon and press the **OK** button to play special function.



## Using Bluetooth Playback

Pairing is the term used when two Bluetooth devices are connected wirelessly for the first time. This allows the devices to see each other and sets up a one to one communication channel between both devices.

### Bluetooth Connection

1. Press the **POWER** button to turn on unit and the power indicator light GREEN.
2. Press **≡ / MENU** button to enter projector menu, press **◀/▶** buttons to select **SOUND** menu
3. Use the **▲/▼** button to select Bluetooth column.
4. Press the **OK** button to turn “ON”
5. Turn on your External Bluetooth Speaker and select to Bluetooth pairing mode.
6. A few seconds, you hearing “melody” sound that your unit and external Bluetooth speaker connected.
7. After connection completed, the unit sound to External Bluetooth speaker.

Sound Mode Standard
Balance 0
<b>Bluetooth Off</b>

### Disconnect the Bluetooth

1. Press the **≡ / MENU** button to enter the projector menu, press **◀/▶** buttons to select **SOUND** menu
2. Use the **▲/▼** button to select Bluetooth column
3. Press the **OK** button to turn “Off” that the Bluetooth disconnect.

## **Multi-screen interactive connection for phone and projector**

First, ensure the projector and the mobile is connected to the same wireless network  
Follow below steps to set up.

### **● Support Screen Mirroring Settings (IOS mobile)**

1. Press the  / **SOURCE** button to enter and use  buttons to select the Screen Mirroring mode.
2. Click the Wi-Fi menu to search and select “RKcast-XXXXXX” (XXXXXX is numbers and letters. It show on the “Screen Mirroring” page) on the mobile device and enter Pin “12345678” to connect
3. After connect, click the browser and input IP “192.168.49.1” address on the mobile.
4. Click to select Wi-Fi AP, choose the available local Wi-Fi router and input password to connect.
5. After connect, the router’s name will be on the projector screen.
6. Click Screen Mirroring function on the mobile to achieve Screen Mirroring.

### **● Support Airplay Settings (IOS mobile)**

1. Press the  / **SOURCE** button to enter and use  buttons to select the Screen Mirroring mode.
2. Click the Wi-Fi menu to search and select “RKcast-XXXXXX” (XXXXXX is numbers and letters. It show on the “Screen Mirroring” page) on the mobile device and enter Pin “12345678” to connect
3. After connect, click the browser and input IP “192.168.49.1” address on the mobile.
4. Click to select Wi-Fi AP, choose the available local Wi-Fi router and input password to connect.
5. After connect, the router’s name will be on the projector screen.
6. Click Mirror Icon of mobile player, select Airplay Bluetooth devices, will pop out select device icon window, click “RKcast – XXXXXX” to achieve Screen Mirroring.
7. The mobile device will mirror and browse online contents to projector. You can enjoy online video/music/pictures, etc. (This feature is only supported by iOS 7 or above devices).

Note: When the router is successfully connected, the projector will automatically connect to the router next time. The mobile device can connect the projector or the router to mirror the network content.

### **● Android Mirroring Settings (Miracast mode)**

1. Press the  / **SOURCE** button to enter and use  buttons to select the Screen Mirroring mode.
2. Click the Wi-Fi menu to search and select available local Wi-Fi router and input password to connect on the mobile.
3. Click Miracast function (different mobile models with different names) on the mobile

settings

4. Click to select “RKcast-XXXXXX” (XXXXXX is numbers and letters. It show on the “Screen Mirroring” page) on the mobile settings. The mobile device contents will mirror on the projector screen

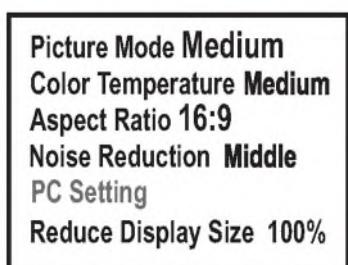
- **Android Mirroring Settings (DLNA mode)**

1. Press the  / **SOURCE** button to enter and use  buttons to select the Air Play mode.
2. Click the Wi-Fi menu to search and select “RKcast-19A1EF” on the mobile device and enter Pin “12345678” to connect
3. After connect, click the browser and input “192.168.49.1” IP address on the mobile.
4. Click to select Wi-Fi AP, choose the available local Wi-Fi router and input password to connect.
5. After connect, the router’s name will be on the projector screen.
6. Click Screen Sharing or Wireless Display (different mobile models with different names) on the mobile
7. The mobile device will mirror and browse online contents to projector. You can enjoy online video/music/pictures, etc. (This feature is only supported by Android system 4.2 or above devices).

Note: When the router is successfully connected, the projector will automatically connect to the router next time. The mobile device can connect the projector or the router to mirror the network content.

## Using Projector Menu 1

Press **≡ / MENU** button to enter projector menu, press **◀/▶** buttons to select **PICTURE** menu.



This Picture menu showed on right upper of view screen.

**USE ▲/▼ TO SELECT** **PRESS OK** Use **◀/▶** to select different picture effect to Medium / Soft / User / Videl. Use **◀/▶** or **▲/▼** to select Contrast / Brightness / Color / Sharpness digit If chose User item. Follow below figure.

**USE ▲/▼ TO SELECT** **PRESS OK** Use **◀/▶** to select different color temperature to Cool / Medium / Warm / User. Use **◀/▶** or **▲/▼** to select Red / Green / Blue digit If chose User item. Follow below figure.

**Aspect Ratio 16:9** **PRESS OK** Use **▲/▼** buttons to select screen ratio AUTO / 4:3 / 16:9. Follow below figure.

**Noise Reduction Middle** **PRESS OK** Use **▲/▼** buttons to select Off / Low / Middle / High / Default.

**PC Setting** **PRESS OK** Use **▲/▼** buttons to select Auto Adjust / Horizon Pos. / Vertical Pos. / Size / Phase. Use **◀/▶** or **▲/▼** to select Horizon Pos. / Vertical Pos. / Size / Phase digit. Follow below figure.

**Reduce Display Size 100%** **PRESS OK** Use **◀/▶** buttons to select different zoom scale digit 75% - 100%

Picture Mode	
Customer define	Parameter
Contrast	0-100
Brightness	0-100
Color	0-100
Sharpness	0-100

Color temper... (temperature)	
Customer define	Parameter
red	0-100
blue	0-100
green	0-100

Aspect Ratio	
AV mode	Auto, 4:3, 16:9, Zoom1, Zoom2, Panorama
HDMI mode	Auto, 4:3, 16:9, Zoom1, Zoom2, Just Scan, Panorama, Point To Point
VGA mode	Auto, 4:3, 16:9, Point To Point
DMP (USB/TF Card) mode	Auto, 4:3, 16:9
Air Play mode	Auto, 4:3, 16:9, Zoom1, Zoom2, Just Scan, Panorama, Point To Point

PC Setting (Active in VGA mode)	
Customer define	Parameter (Press <b>◀/▶</b> to set)
Horizon Pos.	0-100
Vertical Pos.	0-100
Size	0-100
Phase	0-100

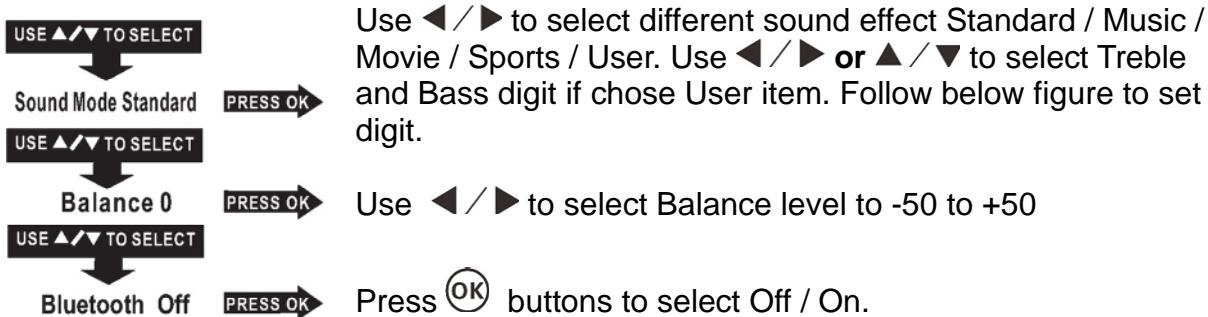
**Noted: PC setting menu is activated in VGA mode only.**

## Using Projector Menu 2

Press **≡ / MENU** button to enter projector menu, press **◀/▶** buttons to select **SOUND** menu.

Sound Mode Standard
Balance 0
Bluetooth Off

This **sound** menu showed on right upper of view screen.

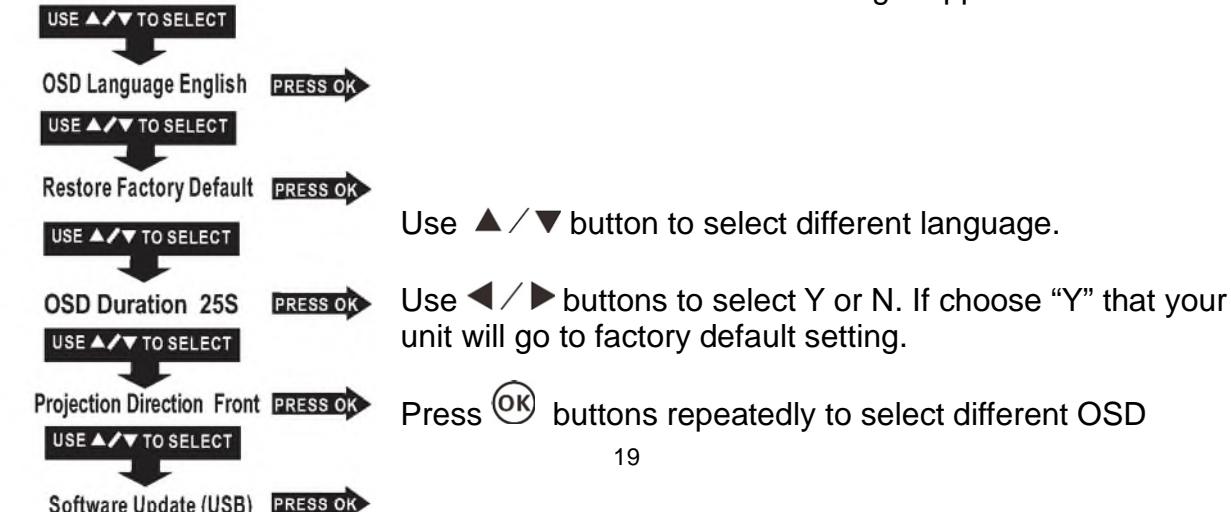


Sound Mode - User	Parameter
Treble	0-100
Bass	0-100

## Using Projector Menu 3

Press **≡ / MENU** button to enter projector menu, press **◀/▶** buttons to select **OPTION** menu.

This **OPTION** menu showed on right upper of view screen.



Duration time Off / 5S / 10S / 15S / 20S / 25S / 30S.

Press  buttons repeatedly to select Front / Rear Ceiling / Front Ceiling / Rear

For service center use only.

## **Specifications**

Bluetooth Version	4.2
Light Source Type	LED
HDMI Input Supported Video Resolution.	1080p , 1080i , 720p, 576i , 480p, and 480i
Power Consumption	67W
Included Adapter	Input AC100-240V, 50/60Hz
Projection Size	37-150 inch
Input Port	AV/ VGA / HDMI
USB Port	Support USB device up to 32GB Support format Mpeg1, Mpeg2, Mpeg4, mp3, Jpeg
TF Card	Support SD card up to 32GB Support format Mpeg1, Mpeg2, Mpeg4, mp3 , Jpeg
Net Weight	1.4 KG
Product Dimensions	230 x 200 x 94 mm

Specifications are typical, individual units might vary. They are subject to continuous improvement without notice and without incurring any obligation.

### **FCC Statement**

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 interference to 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.