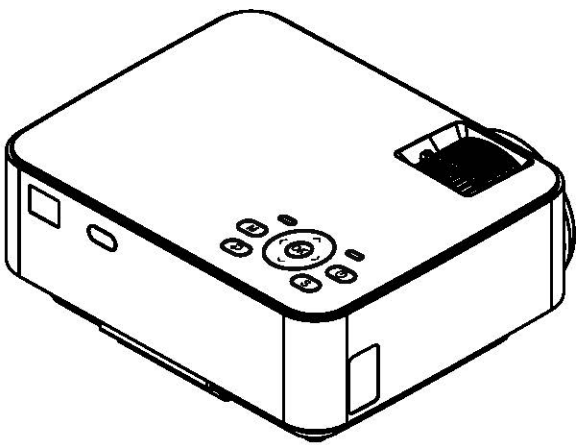
USER'S MANUAL



This manual is suitable for the Company's multimedia and smart Android projectors. If there is any change in the specifications, the actual product shall prevail.

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

Identification [Electronic information product pollution control identification requirements]

(1) Name and content of harmful substances
The names and contents of six harmful substances in this product are shown in the following figure.

Component Name	Toxic and Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Real Equipment Base Plate	o	o	o	o	o	o
Framework	o	o	o	o	o	o
Light source	o	o	o	o	o	o
Connecting Wires between Machines	o	o	o	o	o	o

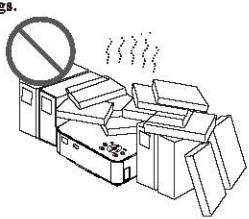
Note (meaning of o or x)
o indicates the content of the toxic and hazardous substances in the component is below the limitation required in SJ/T11363-2006 standard.
x indicates the content of some toxic and hazardous substance in the component is above the limitation required in SJ/T11363-2006 standard.
1. "Framework" of component name, including the external framework and internal components.

(2) Electronic Information Product Pollution Control Identification
The national [Electronic Information Product Pollution Control Management Method] published on Feb 28th, 2006, identifies the environmental protection service life of this product.
It will not have a profound impact on the environment pollution, human body and property within the age limit from the production date as long as complying with the safety and use considerations.
The electronic information products shall be recycled and reused as required in the laws and regulations of various regions when they complete the normal use and are abandoned.

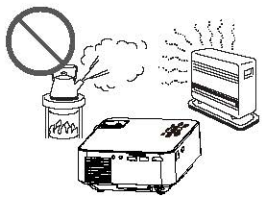
(3) Package Recycling Marks (GB18455-2001)
Various package materials are identified according to the package recycling marks (GB18455-2001).
Package materials shall be abandoned as required in the legal provisions in terms of package material recycling and reusing.

Important safety considerations

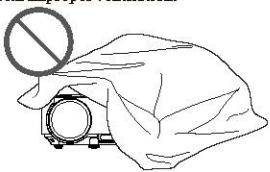
The following safety instructions ensure the long service life of the projector to avoid fire or electric shock. Make sure to carefully read them and pay attention to all the following warnings.



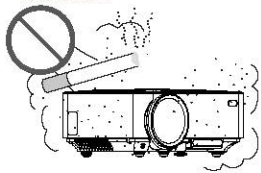
Do not install the projector in sites with improper ventilation.



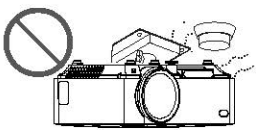
Do not install the projector in hot and humid sites.



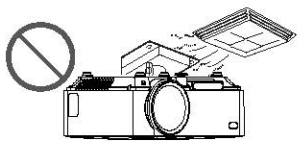
Do not block the ventilation holes (intake or exhaust)



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

Application Conditions
Humidity <=80%
- Operating temperature: 5 ~+ 35℃
- Storage temperature: -10 – + 60℃

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.
- Do not deform, twist, or put weight on the projector during assemblin

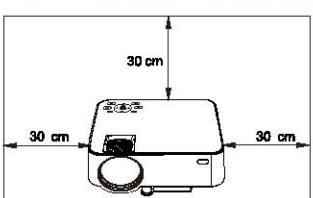
Cleaning
- Unplug the power cord from the projector.
- Use a wet cloth to clean the cabinet regularly. Neutral detergent may be used for serious smudge. Do not use strong detergent or solvent such as alcohol or diluent.
- Use an air brush or lens paper to clean the lens and be careful not to scratch or abrade them.
- Please clean the ventilation opening and the loudspeaker regularly with a cleaner. If the vent is blocked by dust, it will cause a malfunction due to overheating of the machine.
  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.

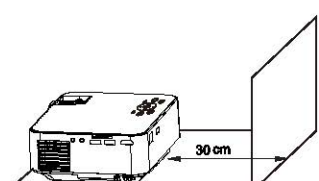
Notes on Fire and Electric Shock
- Make sure of adequate ventilation and blocked outlet to avoid heat accumulation within the projector.
- Prevent foreign objects from falling into the projector, such as paper clips and paper scraps, do not attempt to retrieve any such object. Do not insert any metal 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.
- Please take care about ESD during assembling and transportation.

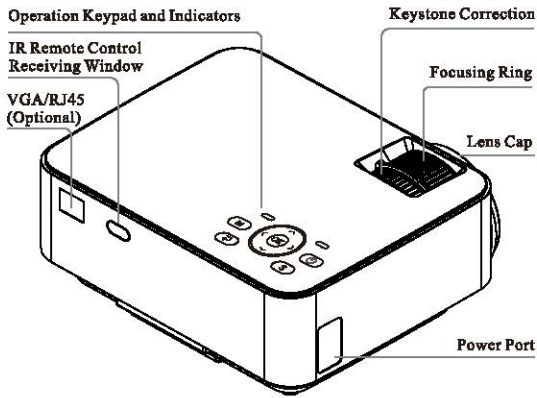
High Temperature Warning
- During and after the projection, the temperature near the outlet will rise, therefore touching may cause burns. Do not peep at the lens, or it may cause severe eye injury.

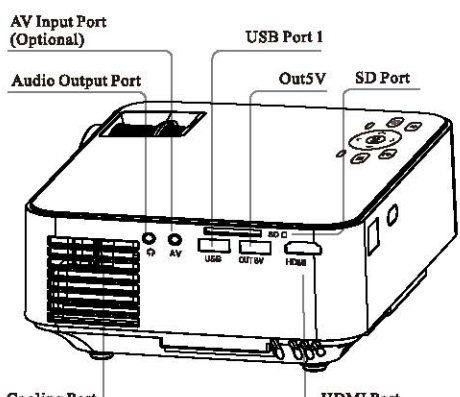
Installed Away from Walls
- Please leave at least 30cm from the wall to maintain the projector's performance and reliability.



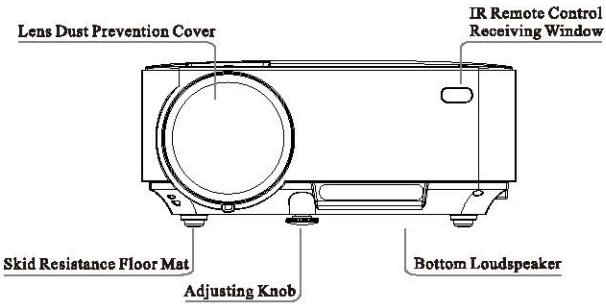


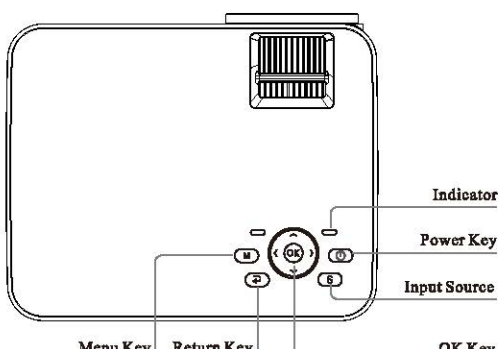
Names and Functions of Projector Components





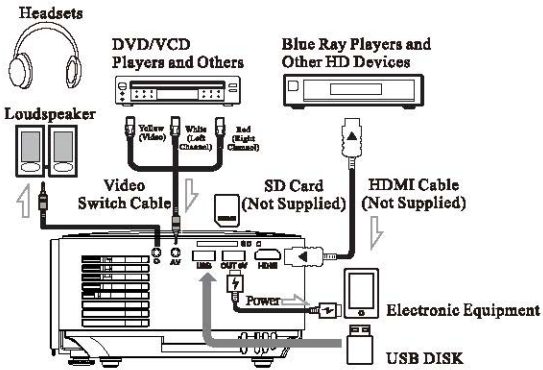
Names and Functions of Projector Components



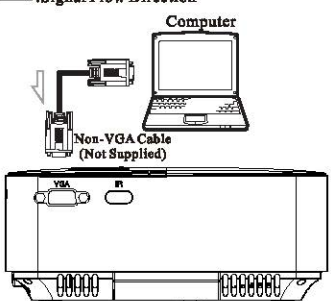


Due to improvements in the product design, the appearance displayed here is just for your reference and the actual product shall prevail

Equipment Connection and Equipment (Multimedia Version)



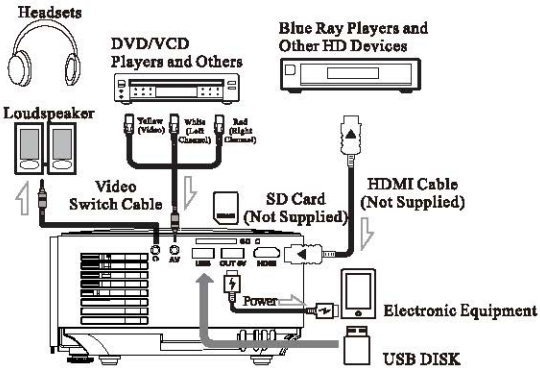
:Signal Flow Direction



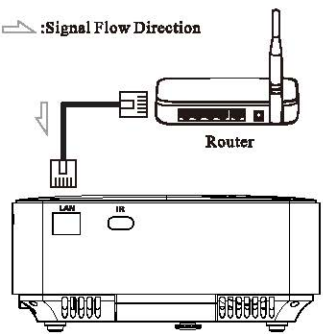
! Attentions:

The projection image may be incorrect though the image on LCD is correct as boththe laptop LCD and the projector are displaying images. Please stop the synchronous display of the laptop and try only external outputdisplay in this case.

Equipment Connection and Materials (Smart Android Version)



:Signal Flow Direction



! Attentions:

The projection image may be incorrect though the image on LCD is correct as boththe laptop LCD and the projector are displaying images. Please stop the synchronous display of the laptop and try only external outputdisplay in this case.

Equipment Connection and Materials (Smart Android Version)

Projector connected to laptop

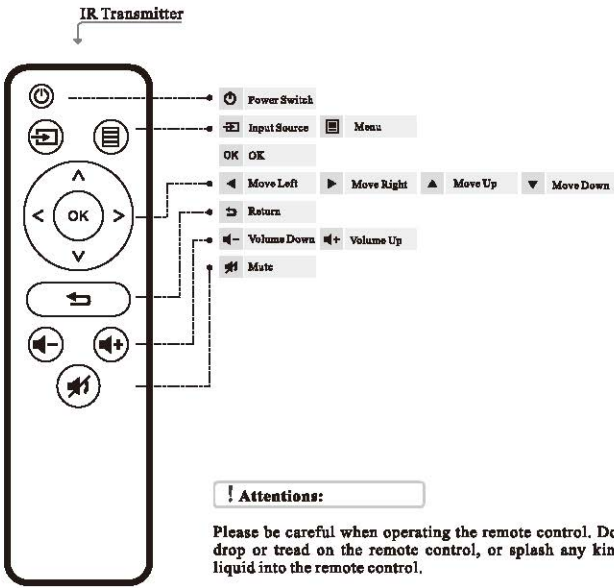
Different brands and different models of computers have different shortcut keys for outputting signals to the outside. See the computer manual for details.
(1)Press the windows key and the"P"key on the keyboard and select "Copy".
(2) On the F1~F12 buttons of the keyboard, find the button of the "□|▲" symbol, press this button and the Fn button at the same time, then select "Copy" on the window.

Manufacturer	Keys
Acer	Fn + F5
Dell	Fn + F8
Epson	Fn + F8
Fujitsu	Fn + F10
Hewlett-Packard	Fn + F4
IBM	Fn + F7
Lenovo	Fn + F10
NEC	Fn + F3
Panasonic	Fn + F3
Sharp	Fn + F5
Sony	Fn + F7
Zotac	Fn + F3/F5
Toshiba	Fn + F5

! Attentions:

Note: The contents in the above table was last updated in November 2017, refer to the actual contents in the computer manual.

Get to Know the Remote Control (Multimedia Version)



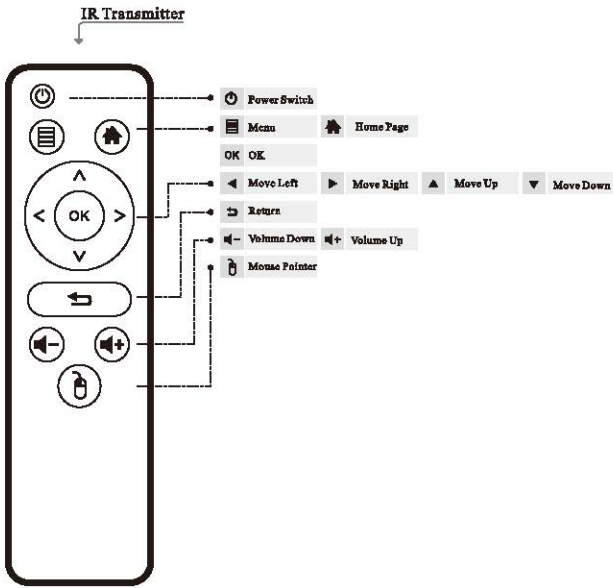
Remote Control

! 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.

Equipment Connection and Materials (Smart Android Version)



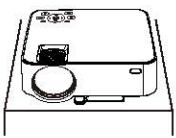
Remote Control

How to install and debug a projector quickly

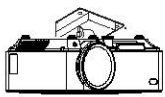
Installation and Debugging

1 Install the Projector

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



Horizontal Placement

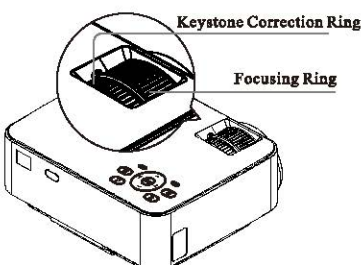


Hanging Bracket Installation

! Attentions:

The hanging bracket is an accessory that is not supplied.

2 Adjust the Focal Length



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.

Distortion Image Diagram

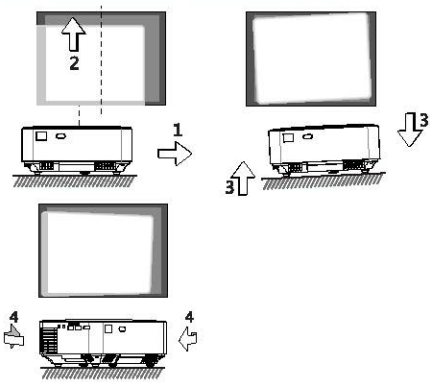
Figure 1:Keystone Distortion

Figure 2:Blurred Image

Installation and Debugging

3 Adjust the image projected on the screen

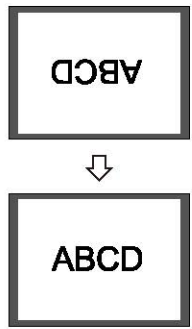
Check the horizontal and vertical screen settings



(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.

! Attentions:

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

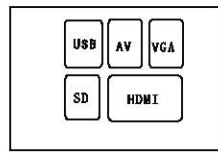


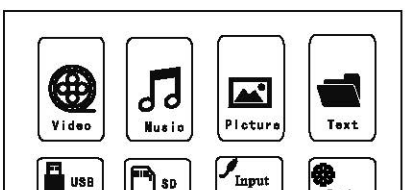
Input Source Switching (Multimedia Version)

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),

Input Source Selection Screen



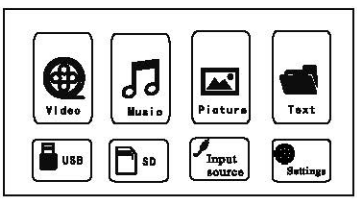


Play Multimedia Content(Multimedia Version)

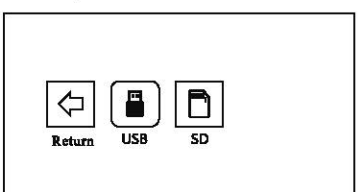
Video, music, picture or text files can be played by following the steps below.

(1) Insert a USB flash drive or SD cardthe icon ( )or ( ) is lit up, indicating the USB disk or SD card has been read

(2) Then select "Video","Music","Picture"or"Text"on the main screen, then press "OK" on the operation panel;



(3) Press "<" or ">" on the operation panel to select the storage device of the corresponding file, then press "OK" to enter the next step.



(4) Press "∧" or" ∨ " on the operation panel to select the appropriate video, music or picture file (or select the folder to enter the subfolder), then press "OK" on the operation panel to play.

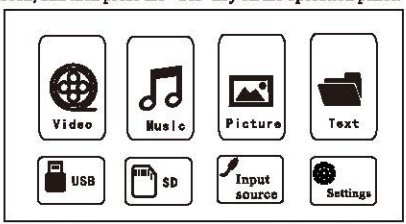
! Attentions:

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.

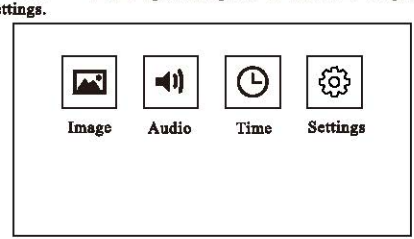
Projection Settings (Multimedia Version)

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

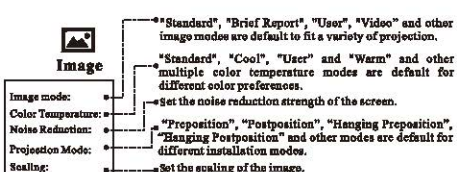
(1) It needs setting, first select "Settings" on the main screen, and then press the "OK" key on the operation panel.



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

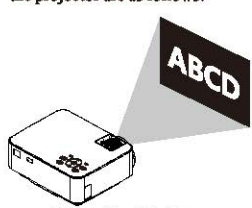


(3) Options related with "Image" are set in this screen.

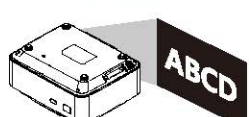


! Attentions:

Different installation modes of the projector are as follows:



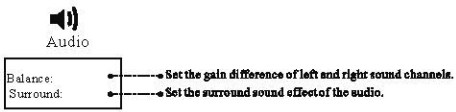
Normal Installation



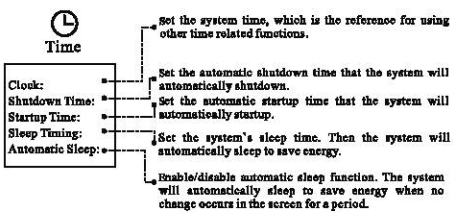
Hanging Installation

Projection Settings (Multimedia Version)

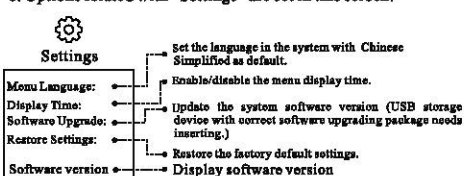
4. Options related with "Audio" are set in this screen.



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



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

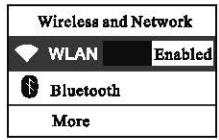


Set Wi-Fi internet access and bluetooth devices (Smart Android Version)

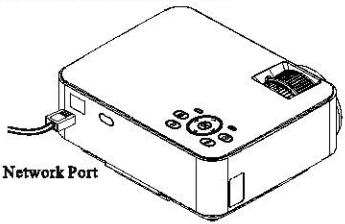
1. Select "Settings" on the screen.

2. Enter the wireless and network settings, select WLAN and click "Enable", as shown in the figure on the right.
3. In the Wi-Fi list, select and access the appropriate network. Enter the correct password for encrypted Wi-Fi.
4. Please click the on the top right to refresh if no appropriate networks exist in the Wi-Fi list.
5. After successful access, the Wi-Fi icon on the top right will be lit up.

Wireless and Network Settings Screen



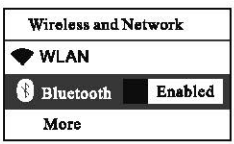
The project has built-in WLAN port (RJ45 wired network port) to ensure a more stable network connection. Access the wired network connector to the device for use.



The bluetooth device connection can be set in the following steps.

1. Select "Settings" on the screen.
2. Enter the wireless and network settings, select bluetooth and click "Enable", as shown in
the figure on the right.
3. Click "Search Devices" and select the appropriate device in the list.
4. Wait for successful device pairing (only for the first connection)

Bluetooth Connection Settings Screen



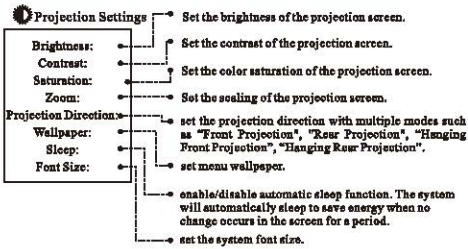
! Attentions:

The built-in loudspeaker of the projector will be automatically muted when the bluetooth output is selected and the bluetooth equipment connected.

Projection Settings (Smart Android Version)

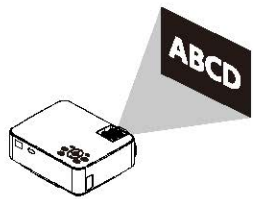
The projection parameters can be set in the following steps (only for Smart Android Version).

1. Select "Settings" on the screen.
2. Enter the device settings and select the "Projection Settings".

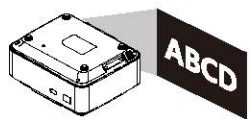


! Attentions:

Different installation modes of the projector are as follows:



Normal Installation

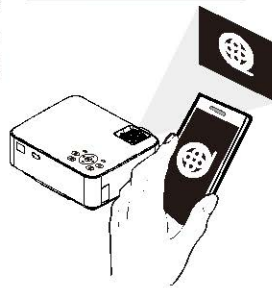


Hanging Installation

Mobile phone screen synchronization (Smart Android Version)

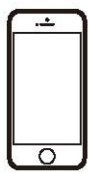
The display content of the mobile phone screen can be synchronized on the projection screen via wireless network to enjoy videos or other content in a larger screen (only for Smart Android Version).
There`re many similar software on the market, in which "Lebo Touping" APP is taken for example in this manual. Device Required: Devices supporting iOS6 and above, or Android 5.0 and above

Figure of mobile phone screen synchronization



Android Phones

Support Android 5.0 and above



Iphones

Support iOS6 or above

Android Device Tutorial

1. Ensure the mobile phone and the projector (only for Smart Android Version) access to the same WiFi network (5G band is recommended for dual-band routers).
2. Download the "Lebo Touping" APP receiver via the software market (Dangbei market is recommended), correctly install and start it.
3. Download the "Lebo Touping" APP mobile terminal to the Android mobile phone, correctly install and start it.
4. In Android mobile phone APP mobile terminal's device list, select and click the device consistent with that on the lower right corner of the Lebo Touping receiving terminal to complete the mirroring.

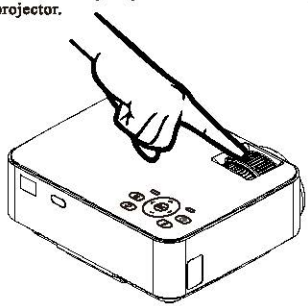
iOS Device Tutorial

1. Ensure the mobile phone and the projector (only for Smart Android Version) access to the same WiFi network (5G band is recommended for dual-band routers).
2. Download the "Lebo Touping" APP receiver via the software market (Dangbei market is recommended), correctly install and start it.
3. Download the "Lebo Touping" APP mobile terminal to the iOS mobile phone, correctly install and start it.
4. Slide from the bottom to the top of the iOS mobile phone screen to open the control panel.
5. Click on the "AirPlay" key on the control panel.
6. Select the device consistent with that on the lower right corner of the Lebo Touping receiving terminal in the device selection.
7. Enable the mirroring switch to complete the mirroring.

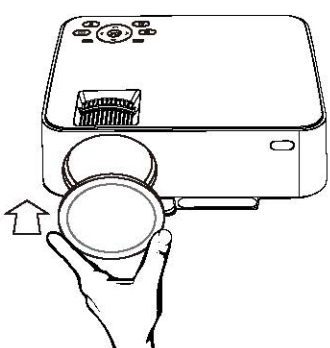
Correct Shutdown and Storage

The projector can be shutdown and be stored safely in the following steps.

1. Press the key ⏻ on the operation panel or the remote control of the projector and shutdown the projector according to system prompts.
2. Screw in the focusing ring to ensure the lens fully stored inside the projector.



3. Cover the dust proof lens to the lens, and store the device in a dry and cool place.



! Attentions:

Do not place the projector in direct sunlight to extend the service life.

Cleaning Method

Make sure to unplug the power plug from the power outlet before cleaning.
Do not use insecticides or other volatile chemicals on the projector or lens. Also do not allow the projector in long contact with the rubber or vinyl products. It will result in a damaged or peeling coating.

Clean the Projector

Wipe the projector with a soft and dry cotton cloth. Wipe using a soft cloth with diluted neutral detergent and wipe up with a dry cloth for very serious smudges. Please comply with the attentions for wiping with a chemical fiber cloth.

Do not use thinner, benzene or other solvents to avoid lower quality or spraying coating peeling off.

A brush can be inserted in the front of the cleaner for cleaning the air vent. Avoid direct use of the cleaner without any joints or nozzles.

Do not scrap the projector's main part with nails or other rigid objects to avoid scratching.

Lens Smudges

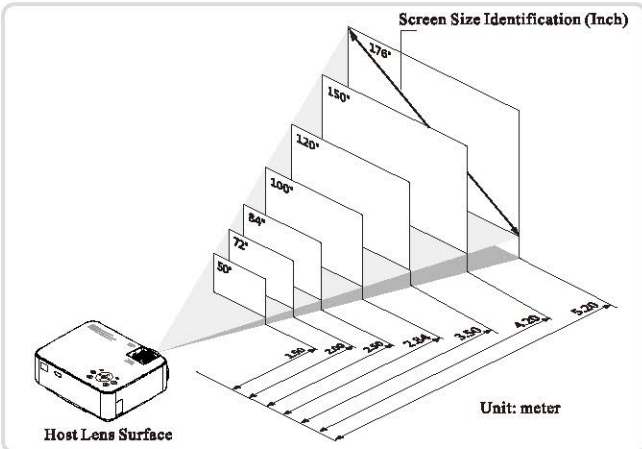
Clean with the same method as the camera lens: use the cleaning web roller for professional air blowers or glasses lens. Be careful not to scrap the lens.

Cleaning the inlet and outlet

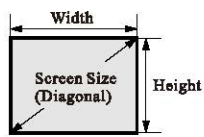
Dust at the inlet and outlet prevents the air ventilation, resulting in temperature rise and causing failure. Cleaning guideline: clean once at least every 10,000 hours of use. Turn off the power and disconnect the power cord.
Clean the external with an electric dust collector. Install a brush head converter on the cleaner. Please note that do not use the cleaner without a converter or an adapter without a brush head.

Data is for reference only.

Projection Distance and Size



Screen Size Measurement (Inch)	Screen Size Width×Height (Meter)	Projection Distance (Meter)
50"	0.67 m × 1.11 m	1.5
72"	0.98 m × 1.59 m	2
84"	1.10 m × 1.86 m	2.5
100"	1.36 m × 2.21 m	2.84
120"	1.65 m × 2.66 m	3.5
150"	1.98 m × 3.32 m	4.2
176"	2.35 m × 3.90 m	5.2



Design Allowable Error: +/-8%.

Measuring points in this form are top-most and center positions of the lens, and assume the projector is placed horizontally (front and rear adjusters are completely removed).

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.

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.

Any 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 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.

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 & your body.