

LED Projector

Model:



Please carefully read and interpret this manual before using this product, and properly keep it for future reference.

Foreword

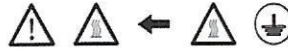
First, thank you for choosing our LED projector. Our LED projector is applicable to meeting, teaching, product demonstration, entertainment, family movie, etc. It is capable of projecting clear pictures with high contrast and features stable performance, diverse functions, simple operation and high cost performance, so it is your wise choice.

Thanks to its superior quality and our first-class service, this product has been highly praised by customers. To appreciate the support of customers, we will offer more perfect visual enjoyment by adhering to the quality policy of "quality guarantee, continuous innovation and higher customer satisfaction".

Safety Precautions

Please carefully read and observe all safety precautions before using the projector, otherwise, fire, electric shock or personal injury may occur, and protection provided by the equipment may be impaired. Please keep all files associated with safety precautions properly.

Safety symbols



Special tips

1. The key of a clear picture is to properly adjust the contrast, brightness and focal length according to different input signals, otherwise, the picture will be obscure.
2. It is prohibited to remove the cover to touch the components because there is a high voltage inside the projector.

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Chapter I Preparations before Use

Section 1 Projector Setting

Setting methods

Since the projector has the following two projection methods, please choose the best one based on the projection place.

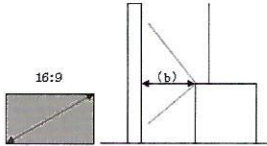
1. Protection from the front: The projector directs at the projection screen from the front in a horizontal way or with the front part raised slightly.
2. Projection from the front through installation on the ceiling: The projector is installed on the ceiling with projector ceiling mounts and directs at the projection screen from the front.

Note:

When hanging the projector from the ceiling, it is necessary to purchase special projector hanging bracket. In this case, please consult the dealer.

For the projection screen size and projection distance, please refer to the figure and table below.

- (a) Screen size (b) Distance between the projector and the screen ($\pm 5\%$)



Screen Size (a) {Inch(m)}	16:9 Screen
	Projection Distance (b) m ($\pm 5\%$)
32	1.1
42	1.36
52	1.52
62	1.87

Table 1

Remarks: The commissioning distance of the next screen is the product of the current

distance and 1.23 with the screen increased by 10 inch, e.g. if the commissioning distance of a 42 inch screen is 1.36 m, that of a 52 inch screen to be commissioned will be equal to 1.36 m times 1.23.

Section 2 Connection to Input Sources

Connection to a PC

- Please power off the projector and the input source prior to connection, otherwise, a fault may occur.
- Please check whether the cable connector matches with the input interface of the projector prior to connection. The insertion of a component in a different shape and with a different pin number may cause equipment fault or damage.
- Use "SOURCE" to set the projector in the "PC" input mode.
- Set the display resolution and frequency at 1,280 × 768 and 60 Hz respectively in case of connection to the PC.

Connection to the AV input source

- Connect the input source (DVD, VCD, video recorder or camera) to the video input terminal of the projector with an A/V cable (red/white/yellow, to be attached randomly).

Notes:

- Use "SOURCE" to set the menu function as "AV" input after connection.
- Connect the video output and left/right audio channel output of the input source to the corresponding input port of the projector.

Section 3 Use of Remote Controller and Body Key Panel

Battery installation

The remote controller is not provided with a battery when being purchased.

Note:

If the remote controller reacts slowly or can't work after being used for some time, the battery has run out, and please replace it.

Methods for use of remote controller

1. Point the light emission part of the remote controller toward the remote-controlled light reception part of the projector (i.e. right in front of

the projector) during operation.

2. Ensure the operation distance between the remote controller and the projector isn't too long and the angle of deviation of the remote controller from the remote-controlled reception head of the projector is within the range of $30 \pm 10\%$.

When the operation distance or angle exceeds the normal range, it is unable to operate the remote controller.



: On/off; : Mute;

FLIP: Picture flip;

FREEZE: Picture pause;

P.MODE: Picture mode;

AUDIO: Audio mode;

ZOOM: Electronic enlargement or narrowing of the picture

FAV: Favorite channel;

CH.LIST: Channel list;

ENTER: Confirmation in the menu; confirmation in the DTV menu;

MENU: Menu key; RETURN: Exit key;

16:9/4:3: Switch between 16:9 and 4:3 modes;

Selection of the leftward / rightward / upward / downward movement on the function interface of the menu; key for selection of the leftward / rightward / upward / downward movement on the function interface of the DTV menu;

SOURCE: Selection of the input source;

DISP: OSD;

: Volume adjustment; : Channel addition and reduction;

0-9: Channel selection through 0 - 9; : Channel selection; SKIP: When playing the video in a USB, press SKIP to set your desired play time, e.g. if you set the time at 00:30:00, you can directly skip to the part indicating 30 min to play the video; : Playback;

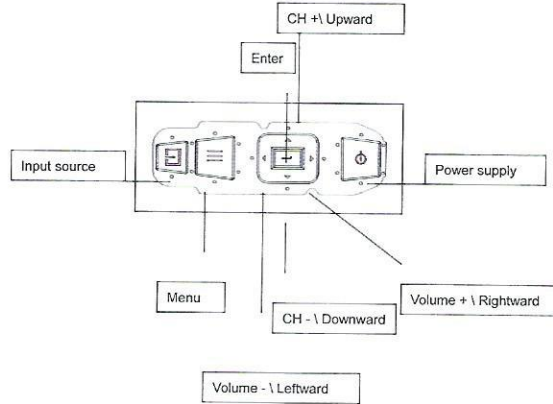
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STOP: Play stop; : Play or stop; FB: Fast back; FF: Fast forward; PREV: Previous program; NEXT: Next program; EXIT: Exit from the DTV channel, DTV: Digital television menu. You can enter the DTV menu by pressing DTV;

Notes:

1. Don't direct the other light sources at the remote-controlled light reception part of the projector, otherwise, the projector might not receive the signal from the remote controller.
2. Don't drop or strongly strike the remote controller.
3. Don't sprinkle the remote controller with fluids such as water.
4. Please remove the battery to avoid electrolyte leakage if the remote controller isn't used for a long time.
5. Battery model: R03 SIZE AAA 1.5V.

Methods for use of body keys



Operation of the body panel keys

1. TV channel. The SOURCE key has the following functions: signal menu display, signal input selection as well as confirmation of the internal function of MENU and the searched TV channel.

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The **MENU** key has the following functions: function menu display as well as save of the searched TV channel;

V+|V- has the following functions: signal input confirmation, switch between leftward and rightward movements or selection of the relevant prompt on the function menu interface of MUNE, as well as volume adjustment;

CH+|CH- has the following functions: selection of upward and downward movements on the signal menu input source interface, channel switch after search as well as selection of upward and downward movements on the function menu interface of MENU;

2. HDMI, component signal, PC signal and video signal: The **SOURCE key** has the following functions: signal menu display, signal input selection as well as confirmation of the internal function of MENU;

The **MENU** key has the following function: function menu display;

V+|V- has the following functions: signal input confirmation, switch between leftward and rightward movements or selection of the relevant prompt on the function menu interface of MUNE as well as volume adjustment;

CH+|CH- has the following functions: selection of upward and downward movements on the signal menu input source interface and on the function menu interface of MENU;

3. USB/SD channel: The **SOURCE key** has the following functions: signal menu display, signal input selection as well as confirmation of the internal function of MENU, play (via enlargement) or stop of different files in the USB channel and different functions of the USB play menu bar;

The **MENU** key has the following function: function menu display;

V+|V- has the following functions: signal input confirmation, switch between leftward and rightward movements on the function menu interface of MUNE, volume adjustment after elimination of the USB play menu bar as well as selection of movement of the USB playlist file and leftward/rightward functional movement or relevant prompt of the USB play menu bar;

CH+|CH- has the following functions: selection of upward and downward movements on the signal menu input source interface and on the function menu interface of MENU. CH+ is used for selection of ENTER in the USB play mode or when you switch to the next file to be played in the USB. CH- is used for elimination of the play bar menu, playlist menu and skip time as well as return to the previous file during play in the USB play mode;

4. The **ENTER key** has the following function: confirmation of any channel and function.

Chapter II Basic Operation

Section 1 Powering on the Projector

Operation:

1. Please confirm that the projector and all equipment connected to it are powered off.
2. Connect the PC or input source to the projector.
3. Remove the lens cap.
4. Connect the projector and the power socket with the power cable attached to the projector.
5. Power on all equipment connected to the projector.

If the input source needs to be operated before working normally, it shall be set in the normal working state.

6. Power on the projector, and the power indicator light will become red.

Press [Power] on the host operation panel or [On/Off] on the remote controller, and the power indicator light will become blue and the projector will work normally.

7. Select the terminal for the connecting equipment by using the key or menu function of the remote controller if the input port set inside the projector isn't consistent with the external equipment.

Note:

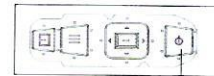
⊗ Please recheck whether the connection state and the external equipment signal output are normal if there hasn't been a signal.

Section 2 Powering off the Projector

Power off the projector as per the following steps:

Operation:

1. Power off the input source connected to the projector.



Power key

2. Press [Power] on the host operation panel [On/Off] on the remote controller, and the power indicator light will go out; then, power off the projector, and the projector will shut down completely.

3. Remove the plug from the power socket.

4. Install the lens cap.

Section 3 Adjustment of Projected Picture

Adjustment of the picture size

The picture size depends on the distance between the projector position and the projection screen. Through adjustment of such a distance, a proper picture size can be achieved, and the projected picture shall be subjected to various adjustments so as to reach the best projection state.

Please refer to Table (1).

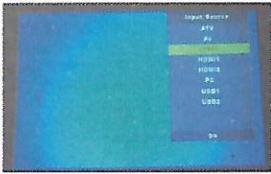
Adjustment of the projection angle

Through adjustment of the projector supporting leg and ceiling mounts, a proper projection angle can be achieved. The projector needs to be as close as possible to the central vertical line of the projection screen for the purpose of reduction of picture distortion during setting of the projector position. If the angle of deviation of the projector from the central vertical line exceeds 20 degrees, picture distortion will occur.

Picture correction

• As the central projection axis isn't perpendicular to the projection screen when the projector is installed, the projected picture shapes like a trapezium on the projection screen. In this case, you need to rotate the trapezium correction knob until the picture returns to its normal shape, i.e. rectangle.

• If the trapezium of the projected picture isn't corrected, the upper or lower part of the screen may be unclear.



Section 4 Adjustment of Picture Quality

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Focusing of the projected picture

Rotate the focusing ring on the projector until the projected picture is in focus and becomes clear.



Focusing ring

Notes:

※ When the lens is dirty or dewy, the focusing operation can't be performed, so please remove dirt or dew.

※ When the projection distance is beyond the normal range, the focusing operation can't be performed. In case of any difficulty in obtainment of a normal focus, please check the projection distance.

Chapter III Advanced Operation

The ways of conducting the following various operations with the menu functions are introduced below.

Notes:

※ Press SOURCE on the operation panel of the projector or on the remote controller to make a selection when you haven't enter the menu.

Current signal input mode: AV or VGA.

※ Use the remote controller and the operation panel of the projector as per the same operation method.

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Section 1 Input Selection

Projection input source: Press SOURCE, and the "Input Source" menu options will appear.

- ATV Television input
- AV Video input
- PC Personal computer input

Operation:

Press SOURCE on the operation panel of the projector or on the remote controller to select the required signal input mode: ATV, AV, PC, HDMI and other signal channels.

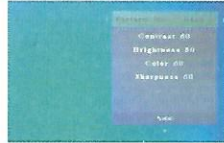


Section 2 Contrast

This function is used for adjustment of the contrast of the picture.

Operation:

1. Press [MENU] on the operation panel or the remote controller, and the "Function Menu" window will appear on the screen.
2. Press [+/-] and [→] to switch to "Picture", and press [↑] or [↓] to move the cursor to "Picture Mode".
3. Press [SOURCE] to enter the function menu of "Picture Mode".
4. Press [+/-] and [→] to switch to "User" of "Picture Mode".
5. Press [↑] or [↓] to move the cursor to "Contrast".
6. Press [+/-] or [→] to adjust the contrast of the picture.
7. Press [MENU] on the operation panel or the remote controller to exit.



Enter "Picture Mode" to adjust the contrast

Section 3 Brightness

This function is used for adjustment of the brightness of the picture.

Operation:

1. Press [MENU] on the operation panel or the remote controller, and the "Function Menu" window will appear on the screen.
2. Press [+/-] and [→] to switch to "Picture", press [↑] or [↓] to move the cursor to "Picture Mode".
3. Press [SOURCE] to enter the function menu of "Picture Mode".
4. Press [+/-] and [→] to switch to "User" of "Picture Mode".
5. Press [↑] or [↓] to move the cursor to "Brightness".
6. Press [+/-] or [→] to adjust the brightness of the picture.
7. Press [MENU] on the operation panel or the remote controller to exit.



Enter "Picture Mode" to adjust the brightness

Section 4 Color

This function is used for adjustment of the color of the picture.

Operation:

1. Press [MENU] on the operation panel or the remote controller, and the "Function Menu" window will appear on the screen.
2. Press [+/-] and [→] to switch to "Picture", and press [↑] or [↓] to move the cursor to "Picture Mode".



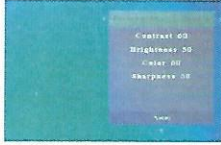
3. Press [SOURCE] to enter the function menu of "Picture Mode" to adjust the color menu of "Picture Mode".
4. Press [+] and [-] to switch to "User" of "Picture Mode".
5. Press [↑] or [↓] to move the cursor to "Color".
6. Press [+] or [-] to adjust the color of the picture.
7. Press [MENU] on the operation panel or the remote controller to exit.

Section 5 Sharpness

This function is used for adjustment of the sharpness of the picture.

Operation:

1. Press [MENU] on the operation panel or the remote controller, and the "Function Menu" window will appear on the screen.



2. Press [+] and [-] to switch to "Picture", and press [↑] or [↓] to move the cursor to "Picture Mode".

3. Press [SOURCE] to enter the function menu of "Picture Mode".

Enter "Picture Mode" to adjust the sharpness

4. Press [+] and [-] to switch to "User" of "Picture Mode".

5. Press [↑] or [↓] to move the cursor to "Brightness".

6. Press [+] or [-] to adjust the brightness of the picture.

7. Press [MENU] on the operation panel or the remote controller to exit.

Section 6 Language

This function is used for selection of OSD language.

Operation:

1. Press [MENU] on the operation panel and the "Function Menu" window will appear on the screen.



2. Press [+] and [-] to switch to "Setting", and press [↑] or [↓] to move the cursor to "OSD Language".

3. Press [SOURCE] to enter the function menu of "OSD Language".

Enter "OSD Language" to select the language

4. Press [+] or [-] to adjust the OSD language.

- Press [MENU] on the operation panel or the remote controller to exit.

Section 7 Transparency

This function is used for selection of OSD transparency.

Operation:

1. Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen.



2. Press [+] and [-] to switch to "Setting", and press [↑] or [↓] to move the cursor to "OSD Transparency".

3. Press [SOURCE] to enter the function menu of "OSD Transparency".

Enter "OSD Transparency" to set the transparency level

4. Press [+] or [-] to adjust the OSD transparency.

5. Press [MENU] on the operation panel or the remote controller to exit.

Section 8 Picture Conversion Function

This function is used for adjustment of upward/downward or leftward/rightward flip of the picture and for switch between the display modes of 4:3 and 16:9.

Operation:

1. Press [FLIP] on the remote controller for picture flip and [4:3/16:9] for switch between the display modes.



[FLIP] key
[4:3/16:9] key

Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen. Press [-] and [→] to switch to "Picture", move the cursor to Zoom Mode and achieve flip. Picture flip and switch between the display modes of 4:3 and 16:9 can also be achieved as per the following method. Press [SOURCE] on the operation panel for confirmation, and then press [-] and [→] as well as [↑] or [↓].



Section 9 Restoration of Factory Default

This function is used for restoration of the factory defaults of all parameters.

Operation:

1. Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen.
2. Press [-] and [→] to switch to "Setting", and press [↑] or [↓] to move the cursor to "Restore Factory Default".
3. Press [SOURCE] to enter the function menu of "Restore Factory Default".
4. Press [-] or [→] to select "Yes" or "No".
5. Press [MENU] on the operation panel or the remote controller to exit.



Enter "Restore Factory Default" to restore the factory default

Section 10 VGA and HDMI PC Input Adjustment

After confirming that VGA and HDMI are normally connected to a PC, enter the VGA and HDMI signal modes and perform the following operations:

I. Picture and setting option

- ※ The adjustment methods of brightness, contrast, color, language, display mode, etc are consistent with those in case of the video input source.
- ※ Please refer to Sections 1 - 9 of this chapter.

1. Connection to a desktop: Adjust the resolution and frequency at 1,280 × 768 and 60 Hz respectively.

2. Connection to a laptop: When connecting the laptop to the VGA or HDMI interface, adjust the projector signal channel to VGA (PC), besides, set the picture output destination by using the keyboard or picture attribute, i.e. pressing FN and keys (from F1 to



F12) such as "CRT/LCD" or "CRT/LCD" simultaneously. Common combination keys are listed as follows:

Toshiba, Sharp, Acer (FN + F5) \ IBM, Hitachi, BenQ (FN + F7) \ HP, NEC (FN + F4) \ Lenovo, Founder, Samsung, Panasonic (FN + F3) \ Apple, Dell (FN + F8) \ Asus (FN + F9)

Section 11 Use of USB Function

Insert the USB flash disk in the correct position of the functional interface, and select the type of the file to be played.



Select the type of the file to be played



Press this key to play the USB video

Section 12 Electronic Zoom

This function is used for adjustment of the match effect between the projected picture and the projection screen.

The user can select the corresponding level among those in the "Zoom" menu to achieve optimum match between the projected picture and the projection screen.

Operation:

1. Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen.
2. Press [←] and [→] to switch to "Picture", move the cursor to "Reduce Display Size",

press [SOURCE] on the operation panel for confirmation, and then press [↑] or [↓] to select the proper "Zoom" level; press [MENU] on the operation panel or the remote controller to exit.



Section 13 TV Input Adjustment

After confirming that the TV signal is connected normally, enter the TV mode as per the method described in Section 1 Input Selection, and perform the following operations.

I. Picture and setting option

The adjustment methods of brightness, contrast, color, language, display mode, etc. are consistent with those in case of the video input source. Please refer to Sections 1 - 9 of this chapter.

II. Channel Search

Operation:

1. Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen.
2. Press [←] and [→] to switch to "CHANNEL", press [↑] or [↓] to move the cursor to "Auto Search" or "Manual Search". ("Auto Search": directly press [ENTER] on the remote controller or [SOURCE] on the operation panel for search, and press [MENU] to save the program and exit; "Manual Search": move the cursor to "Manual Search", press [ENTER] on the remote controller or [SOURCE] on the operation panel and search the program through Search or Fine Tune as shown in Picture (2)).

Section 1 Troubleshooting

The projector is a high-tech product consisting of optical, mechanical and electronic components and equipped with a CPU and a protective circuit inside. In case of violation of operation procedures or improper settings, the protective circuit will begin to work. If some abnormalities occur, they can be eliminated as long as the settings are corrected or the following operations are performed.

Fault	Troubleshooting
Lamp not lighting after powering on the projector	Check whether the power line is connected correctly, the plug is inserted and the projector is powered on or off frequently; check the service time of the lamp and whether it is necessary to replace the bulb.
No picture	Check whether the lens cap is removed; all signal lines are connected correctly and the contrast/brightness is set at the minimum value.
Remote controller not working	Check whether the battery of the remote controller runs out or is installed correctly, there is an obstacle between the remote controller and the projector and the remote controller is beyond the effective service scope.
Obscure picture	Gently rotate the lens and adjust the focus properly. Adjust the analog quantities of brightness, contrast and color. Check whether the lens is clean.
Abnormal sound	Check whether the audio line is connected correctly, the TV signal audio input mode is right and the mute or minimum volume mode is set.

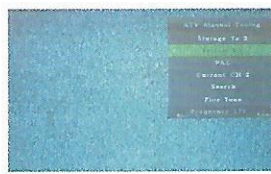
Section 2 Maintenance Method

※ Maintain the projector

Always keep the lens clean because dust, dirt and spot will affect the picture quality when being projected on the screen. If it is necessary to replace any parts of the projector, please contact the dealer or qualified service personnel.



Picture (1)

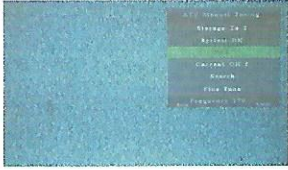


Picture (2)

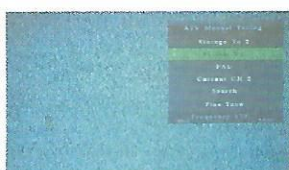
III. System conversion

Operation:

1. Press [MENU] on the operation panel, and the "Function Menu" window will appear on the screen.
2. Press [+] and [-] to switch to "CHANNEL", press "Manual Search", press [↑] or [↓] to move the cursor to "Color System", and press [+] or [-] to select "PAL-NTSC-SECAM-AUTO" as shown in Picture (3).
3. Press [+] and [-] to switch to "CHANNEL", press "Manual Search", press [↑] or [↓] to move the cursor to "Sound System", press [ENTER] on the remote controller, press [+] or [-] to select the "Sound System" necessary for the "Channel System", and press [MENU] on the operation panel or the remote controller to exit as shown in Picture (4).



Picture (3)



Picture (4)

IV. Channel switch

Operation:

1. Press [^] or [v] on the operation panel or remote controller, or directly input the figure to switch the channel.

※ Clean the lens

Use standard lens cleaning cloth or paper to clean the lens. Only use the recommended non-abrasive material and never touch the lens with hands because the lens surface is fragile.

※ Clean the projector housing

Gently wipe the housing with a soft cloth. If dirt and blot can't be removed easily, dip the soft cloth in water, or clean the housing with neutral detergent or water and then wipe it with a dry soft cloth.