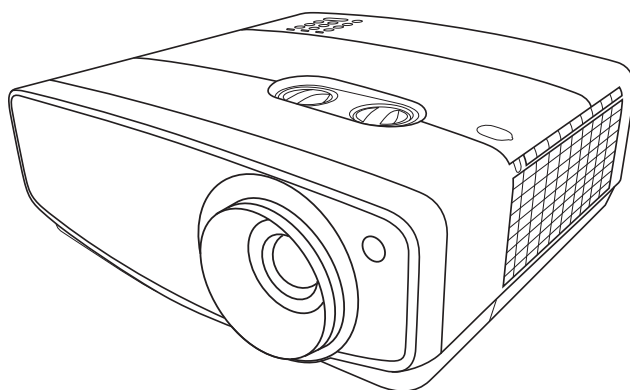


JVC

USER MANUAL

DLP PROJECTOR

LX-UH1



HDMI[™]
HIGH DEFINITION MULTIMEDIA INTERFACE

ProSelecta

View :: Compare :: Select - www.ProSelecta.com

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Safety precautions

This product has a High Intensity Dis-charge (HID) lamp that contains mercury. Manage in accord with disposal laws. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or for USA, the Electronic Industries Alliance: <http://www.eiae.org>. or call 1-800-252-5722(For USA) or 1-800-964-2650(For Canada).

FCC INFORMATION (U.S.A. only)

CAUTION:

Changes or modification not approved by JVCKENWOOD Corporation could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 encourage 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.

Declaration of Conformity

Model Number: LX-UH1B, LX-UH1W

Trade Name: JVC

Responsible party: JVCKENWOOD USA Corporation

Address: 1700 Valley Road Wayne, N. J. 07470

Telephone Number: 973-317-5000

This device complies with Part 15 of 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.

NOISE EMISSION DECLARATION

The sound pressure level at the operator position is equal or less than 60dB(A) according to ISO7779.

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of JVC KENWOOD Corporation is: JVCKENWOOD Deutschland GmbH Konrad-Adenauer-Allee 1-11, 61118 Bad Vilbel, GERMANY

Information for Users on Disposal of Old Equipment and Batteries



Products



Battery

[European Union only]

These symbols indicate that equipment with these symbols should not be disposed of as general household waste. If you want to dispose of the product or battery, please consider the collection systems or facilities for appropriate recycling.

Notice: The sign Pb below the symbol for batteries indicates that this battery contains lead.

Important safety instructions

Your projector is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that you follow the instructions mentioned in this manual and marked on the product.

1. Please read this user manual before you operate your projector. Keep this manual in a safe place for future reference.
2. Always place the projector on a level, horizontal surface during operation.
 - Do not place the projector on an unstable cart, stand, or table as it may fall and be damaged.
 - Do not place inflammables near the projector.
 - Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back.
3. Do not store the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage.
4. Do not place the projector in any of the following environments:
 - Space that is poorly ventilated or confined. Allow at least 50 cm clearance from walls and free flow of air around the projector.
 - Locations where temperatures may become excessively high, such as the inside of a car with all windows closed.
 - Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shorten the projector's lifespan and darken the screen.
 - Locations near fire alarms.
 - Locations with conditions beyond those listed in "[Projector specifications](#)".
5. Do not block the vents while the projector is on (even in standby mode).
 - Do not cover the projector with any item.
 - Do not place the projector on a blanket, bedding or any other soft surface.
6. In areas where the mains power supply voltage may fluctuate by ± 10 volts, it is recommended that you connect the projector through a power stabilizer, surge protector or uninterruptible power supply (UPS) as appropriate to your situation.
7. Do not step on the projector or place any objects upon it.

8. Do not place liquids near or on the projector. Liquids spilled into the projector will void your warranty. If the projector does become wet, disconnect it from the power outlet and contact JVC KENWOOD Corporation to have the projector repaired.
9. Do not look straight into the projector lens during operation. It may harm your sight.



RG2 IEC 62471-5:2015

10. Do not operate the projector lamp beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause a lamp to break on rare occasions.
11. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
12. Never attempt to replace the lamp assembly until the projector has cooled down and is unplugged from the power supply.
13. This projector is capable of displaying inverted images for ceiling mount installation. Use only a proper ceiling mount kit for mounting.
14. THIS APPARATUS MUST BE EARTHED.
15. When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

High temperature Caution

The temperature of the cabinet around and above the exhaust vents can become hot during projector operation. Touching these areas during operation could cause burns to the hands. Do not touch these areas. Doing so may cause burns. Pay particular attention in preventing young children from touching these parts. Additionally, do not place any metal objects on these areas. Due to the heat from the projector, doing so could cause an accident or personal injury.

Ceiling mounting the projector

If you intend to mount your projector on the ceiling, we strongly recommend that you use a proper fitting projector ceiling mount kit and ensure it is securely and safely installed.

If not, there is a safety risk that the projector may fall from the ceiling due to an improper attachment through the use of the wrong gauge or length screws.

You can purchase a proper projector ceiling mount kit from the place you purchased your projector. We recommend that you also purchase a separate Kensington lock compatible security cable and attach it securely to both the Kensington lock slot on the projector and the base of the ceiling mount bracket. This will perform the secondary role of restraining the projector should its attachment to the mounting bracket become loose.

Do not attempt to disassemble this projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts. The only user serviceable part is the lamp. See page [33](#).

Under no circumstances should you ever undo or remove any other covers. Refer servicing only to suitably qualified professional service personnel.



Please keep the original packing for possible future shipment. If you need to pack your projector after use, adjust the projection lens to an appropriate position, put the lens cushion around the lens, and fit the lens cushion and projector cushion together to prevent damage during transportation.

When you think service or repair is required, take the projector only to a suitably qualified technician.

Moisture condensation

Never operate the projector immediately after moving it from a cold location to a hot location. When the projector is exposed to such a change in temperature, moisture may condense on the crucial internal parts. To prevent the projector from possible damage, do not use the projector for at least 2 hours when there is a sudden change in temperature.

Avoid volatile liquids

Do not use volatile liquids, such as insecticide or certain types of cleaner, near the projector. Do not have rubber or plastic products touching the projector for a long time. They will leave marks on the finish. If cleaning with a chemically treated cloth, be sure to follow the cleaning product's safety instructions.

Disposal

This product contains the following materials which are harmful to human bodies and environment.


- Lead, which is contained in solder.
- Mercury, which is used in the lamp.

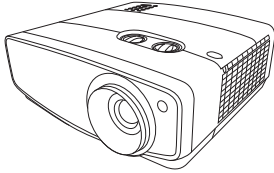
To dispose of the product or used lamps, consult your local environment authorities for regulations.

Overview

Shipping contents

Carefully unpack and verify that you have the items below. Some of the items may not be available depending on your region of purchase. Please check with your place of purchase.

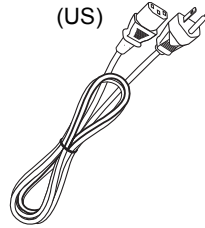
 Some of the accessories may vary from region to region.



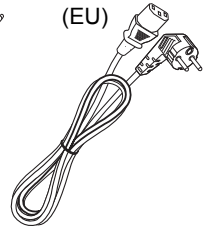
Projector



Remote control and batteries



(US)



(EU)

Power cable



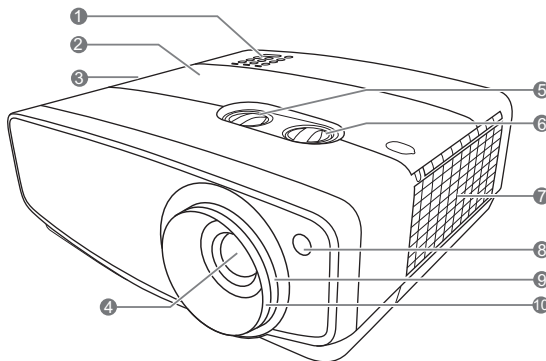
User manual CD



Quick start guide

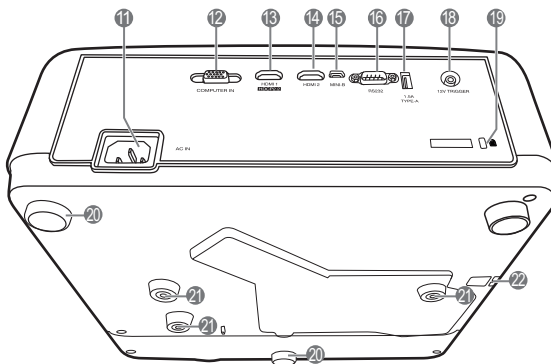
Projector exterior view

Front and upper side view



1. **Control panel** (See "[Control panel](#)" for details.)
2. **Lamp cover**
3. **Vent (heated air exhaust)**
4. **Projection lens**
5. **Lens shift knob (Left/Right)**
Adjusts the horizontal position of the projected image.
6. **Lens shift knob (Up/Down)**
Adjusts the vertical position of the projected image.
7. **Vent (cool air intake)**
8. **Front IR remote sensor**
9. **Zoom ring**
Adjusts the size of the projected image.
10. **Focus ring**
Adjusts the focus of the projected image.

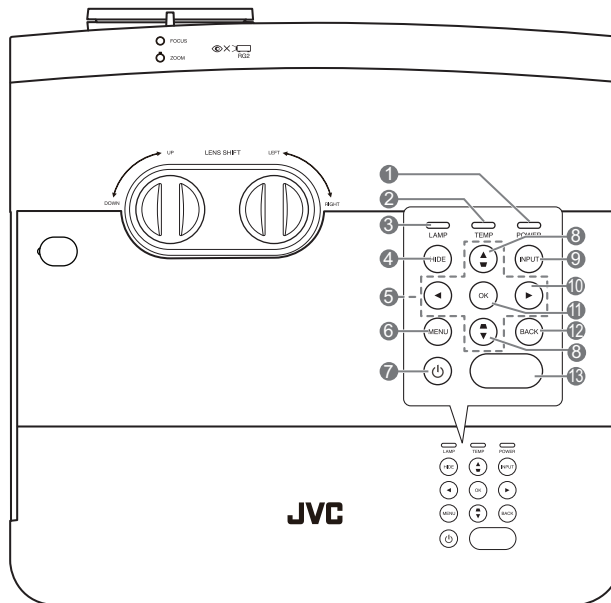
Rear/bottom view



11. **AC Power cable inlet**
12. **Computer (D-Sub 15pin) input jack**
13. **HDMI 1 port (HDCP 2.2)**
14. **HDMI 2 port**
15. **Mini USB port**
Used for service.
16. **RS-232 control port**
17. **USB Type-A port**
Used for charging external device.
18. **12VDC output terminal**
Used to trigger external devices such as an electric screen or light control, etc.
Consult your dealer for how to connect these devices.
19. **Kensington lock slot**
20. **Adjuster feet**
21. **Ceiling mount holes**
22. **Security bar**

Controls and functions

Control panel



1. **POWER** indicator light

Lights up or flashes when the projector is under operation.

2. **TEMPERATURE** warning light

Lights up red if the projector's temperature becomes too high.

3. **LAMP** indicator light

Indicates the status of the lamp. Lights up or flashes when the lamp has developed a problem.

4. **HIDE**

Used to blank the screen picture. Press most of the keys on the projector or remote control to restore the picture.

5. **Arrow keys** (◀, ▲, ▶, ▼)

When the On-Screen Display (OSD) menu is activated, these keys are used as directional arrows to select the desired menu items and to make adjustments.

6. **MENU**

- Accesses the On-Screen Display (OSD) menu.
- Goes back to previous OSD menu, exits and saves menu settings.

7. **POWER**

Toggles the projector between standby mode and on.

8. **Keystone keys** (▾, ▴)

Launches the **Keystone** window. Use ▲, ▼ to manually correct distorted images resulting from an angled projection.

9. **INPUT**

Displays the source selection bar.

10. **▶**

Activates panel key lock. To unlock the keys, press and hold ▶ for 3 seconds or setting OSD menu using the remote control.

11. **OK**

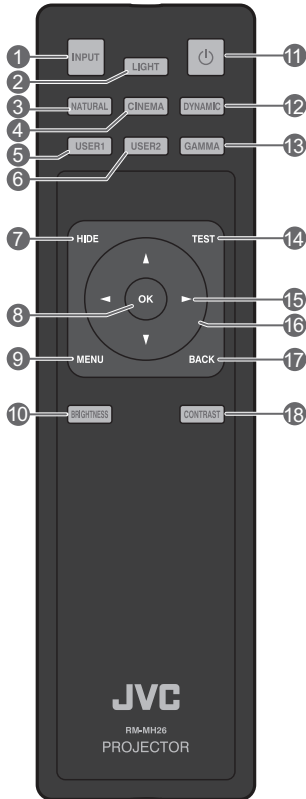
Activates the selected On-Screen Display (OSD) menu item.

12. **BACK**

Goes back to previous OSD menus, exits and saves any changes made using the On-Screen Display (OSD) menu.

13. **Top IR remote sensor**

Remote control



1. INPUT

Displays the source selection bar.

2. LIGHT

Turns on the remote control backlight for a few seconds. To keep the backlight on, press any other key while the backlight is on. Press the key again to turn the backlight off.

3. NATURAL

Selects the picture mode: **Natural**.

4. CINEMA

Selects the picture mode: **Cinema**.

5. USER1

Selects the picture mode: **User 1**.

6. USER2

Selects the picture mode: **User 2**.

7. HIDE

Used to blank the screen picture. Press most of the keys on the projector or remote control to restore the picture.

8. OK

Activates the selected On-Screen Display (OSD) menu item.

9. MENU

- Accesses the On-Screen Display (OSD) menu.
- Goes back to previous OSD menu, exits and saves menu settings.

10. BRIGHTNESS

Displays the setting bar for brightness adjustment.

11. POWER

Toggles the projector between standby mode and on.

12. DYNAMIC

Selects the picture mode: **Dynamic**.

13. GAMMA

Displays the **Select Gamma** menu.

14. TEST

Displays the test pattern.

15. ► Right

Activates panel key lock. To unlock the keys, press and hold ► for 3 seconds or setting OSD menu using the remote control.

16. Arrow keys (◀ Left, ► Right, ▲ Up, ▼ Down)

When the On-Screen Display (OSD) menu is activated, these keys are used as directional arrows to select the desired menu items and to make adjustments.

17. BACK

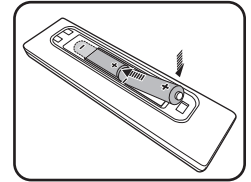
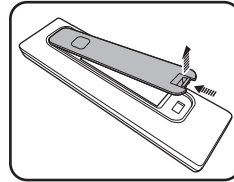
Goes back to previous OSD menu, exits and saves menu settings.

18. CONTRAST

Displays the setting bar for contrast adjustment.

Installing/replacing the remote control battery

1. To open the battery cover, turn the remote control over to view its back, press on the finger grip on the cover and slide it up in the direction of the arrow as illustrated.
2. Remove any existing batteries (if necessary) and install two AA batteries observing the battery polarities as indicated in the base of the battery compartment. Positive (+) goes to positive and negative (-) goes to negative.
3. Refit the cover by aligning it with the base and pushing it back up into position. Stop when it clicks into place.



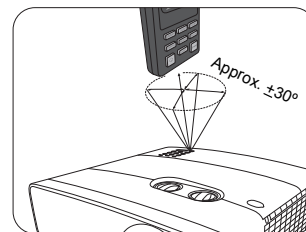
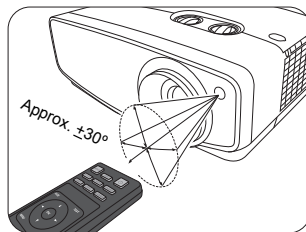
- **Avoid leaving the remote control and battery in an excessive heat or humid environment like the kitchen, bathroom, sauna, sunroom or in a closed car.**
- **Replace only with the same or equivalent type recommended by the battery manufacturer.**
- **Dispose of the used batteries according to the manufacturer's instructions and local environment regulations for your region.**
- **Never throw the batteries into a fire. There may be danger of an explosion.**
- **If the batteries are drained or if you will not be using the remote control for an extended period of time, remove the batteries to avoid damage to the remote control from possible battery leakage.**

Remote control effective range

The remote control must be held at an angle within 30 degrees perpendicular to the projector's IR remote control sensor(s) to function correctly. The distance between the remote control and the sensor(s) should not exceed 8 meters (~ 26 feet).

Make sure that there are no obstacles between the remote control and the IR sensor(s) on the projector.

- **Operating the projector from the front**
- **Operating the projector from the top**



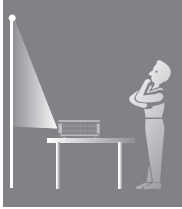
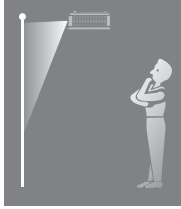
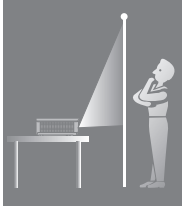
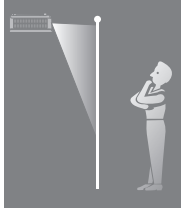


Installation

Choosing a location

Before choosing an installation location for your projector, take the following factors into consideration:

- Size and position of your screen
- Electrical outlet location
- Location and distance between the projector and the rest of your equipment

You can install your projector in the following ways.

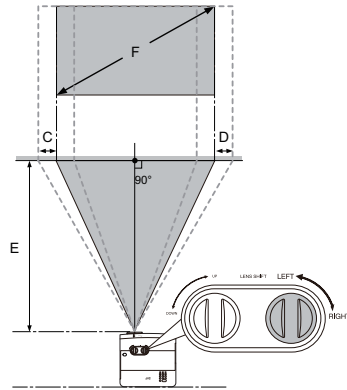
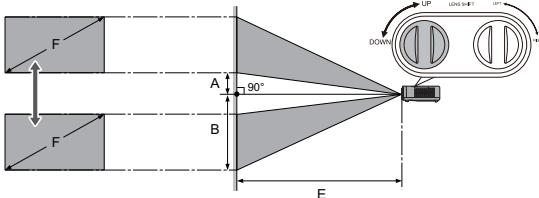
<p>1. Front:</p> <p>Select this location with the projector placed near the floor in front of the screen.</p> <p>This is the most common way to position the projector for quick setup and portability.</p> <p>Turn on the projector and make the following settings:</p> <p>INSTALLATION > Projector Mode > Front</p>		<p>3. Front Ceiling:</p> <p>Select this location with the projector suspended from the ceiling in front of the screen.</p> <p>Turn on the projector and make the following settings:</p> <p>INSTALLATION > Projector Mode > Front Ceiling</p>	
<p>2. Rear:</p> <p>Select this location with the projector placed near the floor behind the screen.</p> <p>Turn on the projector and make the following settings:</p> <p>INSTALLATION > Projector Mode > Rear</p>		<p>4. Rear Ceiling:</p> <p>Select this location with the projector suspended from the ceiling behind the screen.</p> <p>Turn on the projector and make the following settings:</p> <p>INSTALLATION > Projector Mode > Rear Ceiling</p>	
<p> A special rear projection screen is required.</p>		<p> A special rear projection screen and a proper ceiling mount kit are required.</p>	

Obtaining a preferred projected image size

The distance from the projector lens to the screen, the zoom setting, and the video format each factors in the projected image size. To shift the lens, turn the knobs on the projector to shift the projection lens in any direction within the allowable range depending on your desired image position

Front projection

- When adjusting the projection position vertically in lens shift
- When adjusting the projection position horizontally in lens shift



- A: Distance from the center of the lens to the bottom edge of the projected image (when lens shift is raised to its highest level)
- B: Distance from the center of the lens to the bottom edge of the projected image (when lens shift is lowered to its lowest level)
- C: Lens center movement distance (when lens shift is set to maximum left)
- D: Lens center movement distance (when lens shift is set to maximum right)
- E: Projection distance from the projector to the screen
- F: Size of the projected image

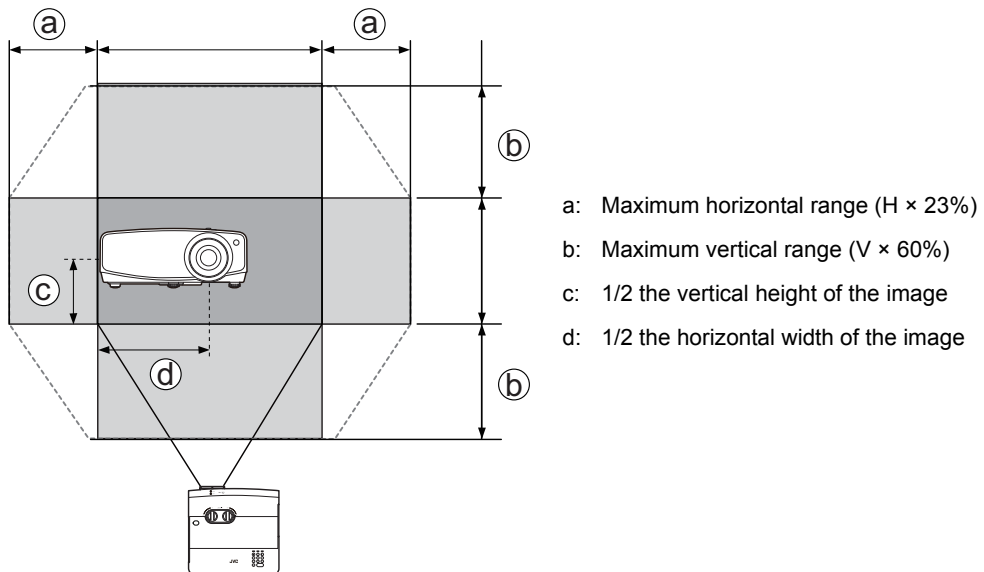
- The screen aspect ratio is 16:9 and the projected picture is in a 16:9 aspect ratio

Screen size		Size of the projected image (F)				Projection distance (E)				Offset (A)		Offset (B)		Offset (C, D)	
Diagonal		Height		Width		Shortest (Wide)		Longest (Tele)							
Inch	cm	Inch	cm	Inch	cm	Inch	cm	Inch	cm	Inch	cm	Inch	cm	Inch	cm
95	241	47	118	83	210	112	285	180	456	4.7	12	51.2	130	19.0	48
100	254	49	125	87	221	118	300	189	480	4.9	12	53.9	137	20.0	51
120	305	59	149	105	266	142	360	227	576	5.9	15	64.7	164	24.1	61
150	381	74	187	131	332	177	450	283	720	7.4	19	80.9	205	30.1	76
180	457	88	224	157	398	213	540	340	864	8.8	22	97.1	247	36.1	92
200	508	98	249	174	443	236	600	378	960	9.8	25	107.9	274	40.1	102

All measurements are approximate and may vary from the actual sizes. If you want a permanent installation of the projector, we recommend that you use the actual projector to physically test the

projection size, distance, and the projector's optical characteristics prior to the installation. This helps you determine the exact mounting position which best suits your installation.

The projection range for lens shift




⚠ Be sure to stop turning the adjustment knob when you hear a clicking sound indicating that the knob has reached its limit. Over-turning the knob may cause damage.

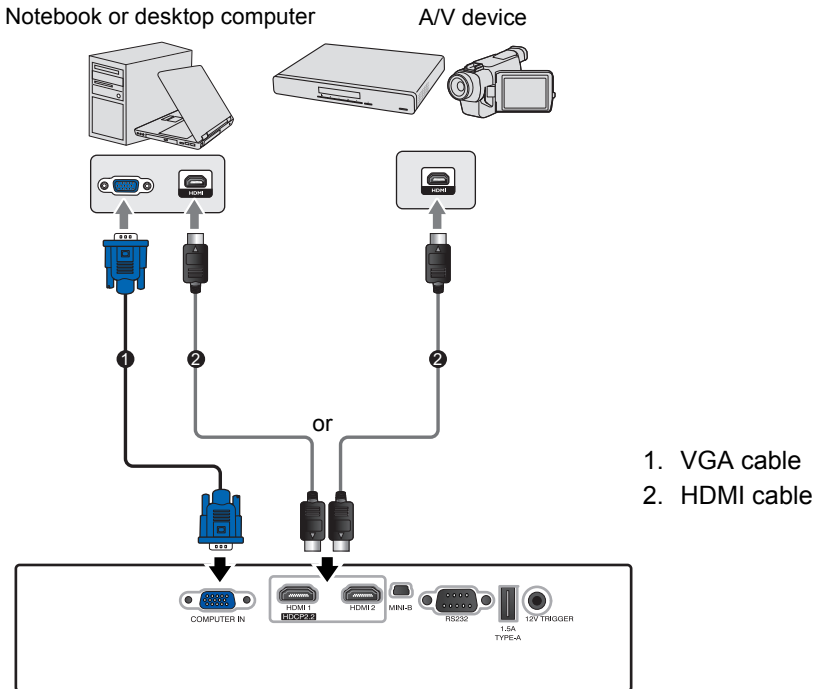
- ☞ You cannot move the image to both the horizontal and vertical maximum values.**
- Lens shift adjustment does not result in a degraded picture quality. In the unlikely event that the image distortion is produced, see ["Adjusting the projected image"](#) for details.**

Connection


When connecting a signal source to the projector, be sure to:

1. Turn all equipment off before making any connections.
2. Use the correct signal cables for each source.
3. Make sure the cables are firmly inserted.

 In the connection illustrations shown below, cables are not included with the projector (see "[Shipping contents](#)"). They are commercially available from electronics stores.




Terminal	HDCP ver.	Used for
HDMI 1	2.2	4K/HDR source
HDMI 2	1.4	Up to FHD (2K) source


 Only HDMI 1 connector supports 4K (Ultra HD)/HDR.

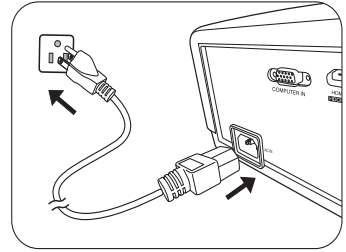
Operation

Starting up the projector



1. Plug the power cable into the projector and a power outlet. Turn on the power outlet switch (where fitted). The **POWER indicator light** on the projector lights orange after power has been applied.

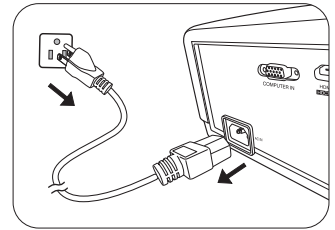
 **Please use the supplied power cable to avoid possible dangers such as electric shock and fire.**

2. Press  to start the projector. The **POWER indicator light** flashes green and stays green when the projector is on. The fans start operating, and a start-up image displays on the screen while it warms up. The projector does not respond to further commands while it is warming up.



Shutting down the projector

1. Press . The projector displays a shutdown confirmation message.
2. Press  a second time. The **POWER indicator light** flashes orange and the fans run for about two minutes to cool the lamp. The projector doesn't respond to any commands during the cooling process.
3. When the cooling process ends, the **POWER indicator light** will show a solid orange. If the projector will not be used for an extended period, unplug the power cable from the power outlet.



 **Avoid turning on the projector immediately after turning it off as excessive heat may shorten lamp life. The actual lamp life may vary due to different environmental conditions and usage.**

Selecting an input source

The projector can be connected to multiple equipment at the same time. However, it only displays one full screen at a time. When starting up, the projector automatically searches for the available signals.

If you want the projector to always automatically search for the signals:

- Go to the **SYSTEM SETUP: Basic** menu, and then enable **Auto Input Search**. (see "[Auto Input Search](#)" on page 25)


To select the video source:

1. Press **INPUT** to display the source selection bar.



2. Press **▲/▼** until your desired signal is selected and press **OK**.

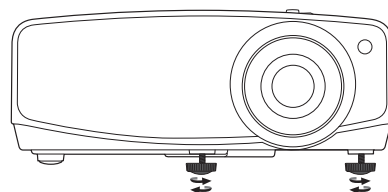
Once detected, the selected source information displays on the screen for seconds. If there are multiple pieces of equipment connected to the projector, repeat steps 1-2 to search for another signal.

 Refer to "[Projector specifications](#)" for the native display resolution of this projector. For best display picture results, you should select and use an input signal which outputs at this resolution. Any other resolutions will be scaled by the projector depending upon the Aspect Ratio setting, which may cause some image distortion or loss of picture clarity. See "[Aspect Ratio](#)" for details.

Adjusting the projected image

Adjusting the projection angle

The projector is equipped with 2 adjuster feet. These adjusters change the image height and projection angle. Screw the feet in or out as appropriate to aim and level the projection angle.

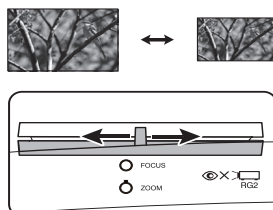


☞ If the screen and the projector are not perpendicular to each other, the projected image becomes vertical trapezoidal. To correct this, see "[Correcting keystone](#)" for details.

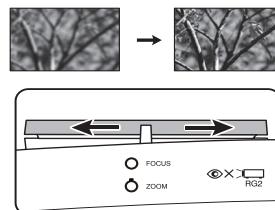
⚠ Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes.

Fine-tuning the image size and clarity

To adjust the projected picture size, turn the zoom ring on the projector.



To sharpen the picture, rotate the focus ring on the projector.



Correcting keystone

Keystoning refers to the situation where the projected image is noticeably wider at either the top or bottom. It occurs when the projector is not perpendicular to the screen.

Besides adjusting the height of the projector, you may correct this manually by following the instructions below:

1. Do one of the following steps to display the **Keystone** window:

- Press ▲/▼ or ▼/▲ on the projector.
- Press ▲/▼ or ▼/▲ on the remote control.

2. The illustrations below show how to correct keystone distortion:



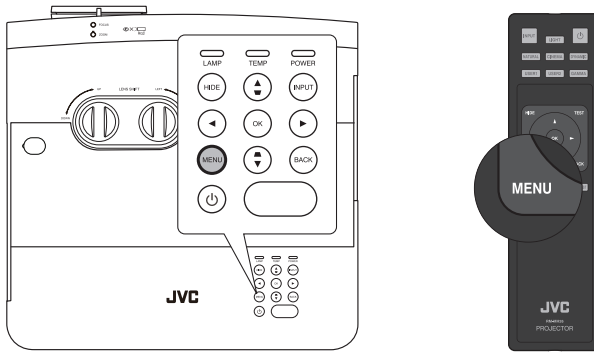
- To correct keystone at the bottom of the image, use ▲ or ▲/▼.
- To correct keystone at the top of the image, use ▼ or ▼/▲.

When done, press **BACK** to save your changes and exit.

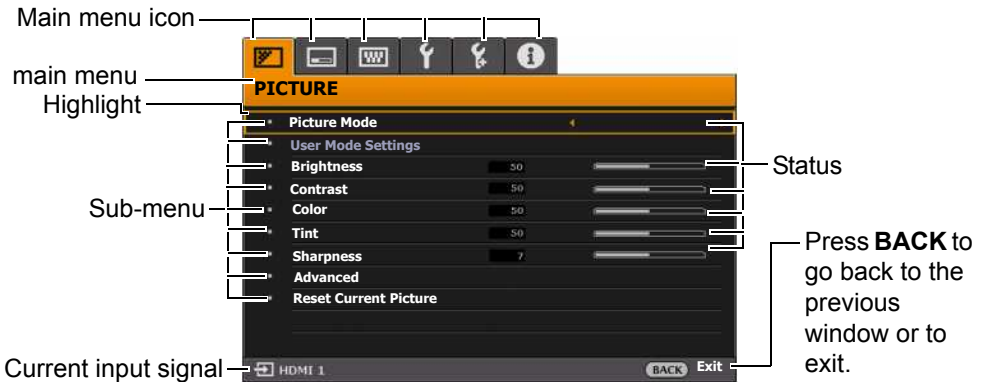
Menu Functions

About the OSD Menu

To access the OSD menu, press **MENU**.



Using the OSD menu






To access the OSD menu, press **MENU** on the projector or remote control. It consists of the following main menus. Check the links after the menu items below to learn more details.



1. **PICTURE** menu (see page 20)
2. **DISPLAY** menu (see page 23)
3. **INSTALLATION** menu (see page 24)
4. **SYSTEM SETUP: Basic** menu (see page 25)
5. **SYSTEM SETUP: Advanced** menu (see page 26)
6. **INFORMATION** menu (see page 27)

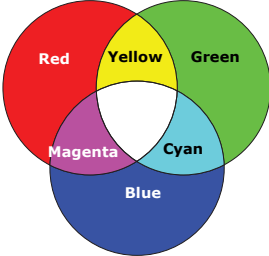
Available menu items may vary depending on the connected video sources or specified settings. Menu items that are not available will become grayed out.

- Use the arrow keys (◀/▶/▲/▼) on the projector or remote control to move through the menu items.
- Use **OK** to confirm the selected menu item.

PICTURE menu


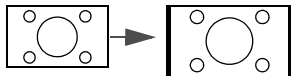

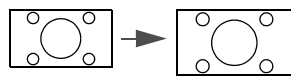
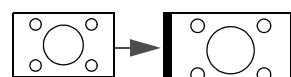



Submenu	Functions and Descriptions
<p>Picture Mode</p>	<p>Selects a preset picture mode to suit your operating environment and input signal picture type.</p> <p>The preset picture modes are described as below:</p> <ul style="list-style-type: none"> • Natural: With well-balanced color saturation and contrast with a low brightness level, this is most suitable for video images. • Cinema: With well-balanced color saturation and contrast with a low brightness level, this is most suitable for enjoying movies in a totally dark environment (as you would find in a commercial cinema). • Dynamic: Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well lit rooms. • User 1/User 2: Recalls the customized settings. After User 1/User 2 is selected, some of the sub-menus under the DISPLAY menu can be adjusted, according to your selected input signal. <p> User 1 default setting is suitable for video images. User 2 default setting is suitable for HLG(Hybrid Log-Gamma) contents. When HDR 10 content such as UHD-BD signal is input to the projector, it automatically switches to the appropriate picture mode. (*Picture Mode cannot be switched)</p>
<p>User Mode Settings</p>	<p>The following functions are only available when Picture Mode is set to User 1 or User 2.</p> <ul style="list-style-type: none"> • Load Settings: Selects a picture mode that best suits your need for the image quality and as a starting point, you can further fine-tune the image based on the selections listed below. • Rename User Mode: Select to rename the customized picture modes (User 1 or User 2). The new name can be up to 9 characters including English letters (A-Z, a-z), digits (0-9), and space (_).
<p>Brightness</p>	<p>Adjusts the brightness of the picture. When adjusting this control, the black areas of the picture appear just as black and details in the dark areas are visible.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The higher the value, the brighter the picture, while the lower the value, the darker the picture.</p> </div> </div>
<p>Contrast</p>	<p>Adjusts the degree of difference between dark and light areas in the picture. After adjusting the Brightness value, adjust Contrast to set the peak white level.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The higher the value, the greater the contrast.</p> </div> </div>
<p>Color</p>	<p>Adjusts the color saturation level - the amount of each color in a video picture. Lower settings produce less saturated colors; setting to the minimum value makes the image black and white.</p> <p>If the setting is too high, colors on the image will be overpowering, which makes the image unrealistic.</p>


Submenu	Functions and Descriptions
Tint	<p>Adjusts the red and green color tones of the picture.</p> <p>The higher the value, the more reddish the picture becomes. The lower the value, the more greenish the picture becomes.</p>
Sharpness	<p>Makes the picture look sharper or softer.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The higher the value, the sharper the picture becomes. The lower the value, the softer the picture becomes.</p> </div> </div>
Advanced	<ul style="list-style-type: none"> • Select Gamma Gamma refers to the relationship between input source and picture brightness. <ul style="list-style-type: none"> • 2.2: Normal gamma value. • 1.8/2.0/2.1/2.3/2.4/2.6: The higher the value, the darker the picture. • Contrast Priority: Places more emphasis on the contrast compared to the Normal setting. • Brightness Priority: Places more emphasis on the brightness compared to the Normal setting. • HLG: For Hybrid Log-Gamma contents. • Color Temperature <ul style="list-style-type: none"> • Preset: Several preset color temperature settings are available. The available settings may vary according to the signal type selected. <ul style="list-style-type: none"> - High: Makes pictures appear bluish white. - Normal: Maintains normal colorings for white. - Low: Makes pictures appear reddish white. <p>You can also set a preferred color temperature by adjusting the following options.</p> <ul style="list-style-type: none"> • Red Gain/Green Gain/Blue Gain: Adjusts the contrast levels of Red, Green, and Blue. • Red Offset/Green Offset/Blue Offset: Adjusts the brightness levels of Red, Green, and Blue.
<p> When viewing HLG contents User 2 default setting is suitable for HLG contents. Recommended to select "User 2" from picture mode when viewing HLG(Hybrid Log-Gamma) contents.</p>	

Submenu	Functions and Descriptions
<p>Advanced</p>	<ul style="list-style-type: none"> • 3D Color Management <p>Provides six sets (RGBCMY) of colors to be adjusted. You can select any of them to adjust its color range and saturation.</p> <ol style="list-style-type: none"> 1. Press OK to display the 3D Color Management window. 2. Select Primary Color and use ◀/▶ to select a color from R (Red), G (Green), B (Blue), C (Cyan), M (Magenta), and Y (Yellow). 3. Press ▼ to select Hue and use ◀/▶ to set its range. Increase in the range will include colors consisted of more proportions of its two adjacent colors. <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The illustration shows how the colors relate to each other.</p> <p>For example, if you select R and set its range at 0, only pure red is selected. Increasing its range will include both the red color close to yellow and red color close to magenta.</p> </div> </div> <ol style="list-style-type: none"> 4. Press ▼ to select Gain and use ◀/▶ to set its values. The contrast level of the primary color you select will be affected. Every adjustment made will reflect to the image immediately. 5. Press ▼ to select Saturation* and use ◀/▶ to adjust its values. Every adjustment made reflects to the image immediately. 6. Repeat steps 2 to 5 until you have made all of the desired adjustments. 7. When done, press BACK to exit. <p>*About saturation</p> <p>It is the amount of that color in a video picture. Lower settings produce less saturated colors; a setting of "0" removes that color from the image entirely. If the saturation is too high, that color will be overpowering and unrealistic.</p>
	<ul style="list-style-type: none"> • MoviePro <ul style="list-style-type: none"> • Color Enhancement: Allows you to fine-tune the saturation of colors with larger flexibility. It modulates complex color algorithms to flawlessly render saturated colors, fine gradients, intermediate hues and subtle pigments. • Skin Tone: Provides a smart adjustment of hue only for calibrating people's skin color, not other colors in the image. It prevents discoloration of skin tones from the light of the projection beam, portraying every skin tone in its most beautiful shade. • Super Resolution: It is a super-resolution technology which radically enhances Full HD content in terms of colors, contrast, and textures. It's also a detail enhancement technology refines surface details for true-to-life images that pop off the screen. Users can adjust levels of sharpness and detail enhancement for optimal viewing. • Auto Aperture <ul style="list-style-type: none"> • Off: To turn off auto aperture function. • Low: Auto aperture will move with limited range. • High: Aperture moves dynamically with full range for premium experience.

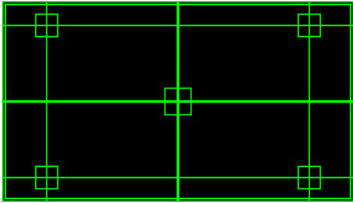
Submenu	Functions and Descriptions
Reset Current Picture Mode	Returns all of the adjustments you've made for the selected Picture Mode (including preset modes, User 1 , and User 2) to the factory preset values.

DISPLAY menu

Submenu	Functions and Descriptions
Aspect Ratio	<p> In the following illustrations, the black portions are inactive areas and the white portions are active areas.</p> <ul style="list-style-type: none"> Auto  Scales a picture proportionally to fit the projector's native resolution in its horizontal or vertical width. This makes the most use of the screen and maintains the aspect ratio of a picture. 4:3  Scales the picture so that it is displayed in the center of the screen with a 4:3 aspect ratio. 16:9  Scales a picture so that it is displayed in the center of the screen with a 16:9 aspect ratio. 16:10  Scales a picture so that it is displayed in the center of the screen with a 16:10 aspect ratio.
Image Position	<p>Displays the Image Position window. You may use the directional arrow keys on the projector or remote control to adjust the position of the projected picture. The values shown on the lower position of the window change with every key press you made.</p> <p> This function is only available when the PC signal is selected.</p>
Overscan Adjustment	<p>Conceals the poor picture quality in the four edges.</p> <p>The greater the value, the more portion of the picture is concealed while the screen remains filled and geometrically accurate. Setting 0 means the picture is 100% displayed.</p>
Phase	<p>Adjusts the clock phase to reduce picture distortion.</p> <p> This function is only available when the PC signal is selected.</p>
H. Size	<p>Adjusts the horizontal width of the picture.</p> <p> This function is only available when the PC signal is selected.</p>

Submenu	Functions and Descriptions
e-shift	<p>Switches the display resolution.</p> <ul style="list-style-type: none"> • Off: Switches to 2K resolution. <p> Picture Mode will automatically be set to fixed mode.</p> <ul style="list-style-type: none"> • On (recommended): Switches to 4K resolution.

INSTALLATION menu




Submenu	Functions and Descriptions
Projector Mode	See " Choosing a location " for details.
Test Pattern	<p>Is used to adjust the image size and focus and check that the projected image is free from distortion. To close the test pattern, go back to this menu and select Off.</p> 
Lamp Settings	<ul style="list-style-type: none"> • Lamp Mode Select the projector lamp power from the following modes. <ul style="list-style-type: none"> • Normal: Provides full lamp brightness. • Eco: Reduces system noise and lamp power consumption by 30%. If the Eco mode is selected, the light output will be reduced and result in darker projected pictures. See "Setting Lamp Mode" for details. • Reset Lamp Timer Activate this function only after a new lamp is installed. When you select Reset, a "Reset Successfully" message displays to notify that the lamp time has been reset to "0". • Lamp Information Select to learn the duration (in hours) of lamp usage which is automatically calculated by the built-in timer.
12V Trigger	<p>There is one 12V trigger that works according to your needs for installation scenarios. Two selections are available:</p> <ul style="list-style-type: none"> • Off: If this is selected, the projector will not send electronic signal out when it is turned on. • On: The projector will send a low to high electronic signal out when it is turned on, a high to low signal out when it is turned off.



Submenu	Functions and Descriptions
High Altitude Mode	<p>The mode is for operation in areas like high altitude or high temperature environments. Activate the function when your environment is between 1500 m–3000 m above sea level and ambient temperature is between 0°C–30°C.</p> <p>Operation under High Altitude Mode may cause a higher decibel operating noise level because of increased fan speed necessary to improve overall system cooling and performance.</p> <p>If you use this projector under other extreme conditions excluding the above, it may display auto shut-down symptoms, which is designed to protect your projector from over-heating. In cases like this, you should switch to High Altitude Mode to solve these symptoms. However, this is not to state that this projector can operate under any and all harsh or extreme conditions.</p>

SYSTEM SETUP: Basic menu

Submenu	Functions and Descriptions
Language	Sets the language for the On-Screen Display (OSD) menus.
Background Color	Sets the background color for the projector.
Splash Screen	Allows you to select which logo screen displays during projector start-up. You can choose JVC logo screen, Blue screen, or Black screen.
Auto Power Off	Prevents unnecessary projection when no signal is detected for a long time. See " Setting Auto Power Off " for details.
Direct Power On	Allows the projector to turn on automatically once the power is fed through the power cord.
Menu Settings	<ul style="list-style-type: none"> • Menu Position Sets the OSD menu position. • Menu Display Time Sets the length of time the OSD will remain active after your last key press. • Reminder Message Sets the reminder messages on or off.
Rename Input	Renames the current input source to your desired name. use ▲/▼/◀/▶ and OK to set the desired characters for the connected source item.
Auto Input Search	<p>Sets whether the projector searches automatically for input sources.</p> <p>Select On to enable the projector to scan for input sources until it acquires a signal. If the function is set to Off, the projector will select the last used input source.</p>

SYSTEM SETUP: Advanced menu

Submenu	Functions and Descriptions
HDR	<ul style="list-style-type: none"> • HDR The projector supports HDR imaging sources. It can automatically detect the dynamic range of the source, and optimize settings to reproduce contents under wide range of light conditions. If the input source is not defined with dynamic range, you can also manually select HDR or SDR for it. • EOTF The projector can automatically adjust the brightness levels of your image according to the input source. You can also manually select a brightness level to display better picture quality. When the value is higher, the image becomes brighter; when the value is lower, the image becomes darker.
HDMI Range	<ul style="list-style-type: none"> • Auto: Sets the projector to detect the HDMI range of the input signal automatically. • Enhance: Sets the HDMI color range as 0 - 255. • Standard: Sets the HDMI color range as 16 - 235.
Password	<p>For security purposes and to prevent unauthorized use, you may set up password security for the projector. This limits use of the projector to only those who know the correct password. If you enter an incorrect password 5 times in succession, the projector will automatically shut down in a short time.</p> <p> You will be inconvenienced if you enable this function yet forget the password somehow. Do make a note of your password, and keep the note in a safe place for later recall.</p> <p>You will be asked to set a new password if no password has been set before. As the on-screen display indicates, the 4 arrow keys (▲/▶/▼/◀) respectively represent 4 digits (1, 2, 3, 4). Use the arrow keys to set a 6-digit password. The digits display as ***** when you enter them.</p> <ul style="list-style-type: none"> • Change Password You will be asked to enter the current password before changing to a new one. • Power On Lock You will be asked to enter the current password before changing the setting. <p> Once a password has been set and the power on lock is enabled, the projector cannot be used unless the correct password is entered every time the projector is started.</p> <p> If you forget the password, do the following:</p> <ol style="list-style-type: none"> 1. Press and hold OK for 3 seconds when the password error message displays. The projector will display a coded number on the screen. 2. Write down the number and turn off your projector. 3. Seek help from the local JVC service center to decode the number. You may be required to provide proof of purchase documentation to verify that you are an authorized user of the projector.

Submenu	Functions and Descriptions
Panel Key Lock	<p>With the control keys on the projector locked, you can prevent your projector settings from being changed accidentally (by children, for example).</p> <p>When you select On to enable this function, no control keys on the projector will function, except POWER.</p> <p>To unlock the keys, press and hold ▶ on the projector for 3 seconds or select Off here using the remote control.</p> <p> The function is accessible through the remote control or keypad.</p>
Reset All Settings	<p>Returns all settings to the factory preset values.</p> <p> The following settings will still remain: Language, Projector Mode, High Altitude Mode, Password.</p>

INFORMATION menu

Submenu	Functions and Descriptions
Input	Displays the current signal source.
Picture Mode	Displays the current picture mode under the PICTURE menu.
Resolution	Displays the native resolution of the input source.
Color System	Displays input system format.
Lamp Usage Time	Displays the number of hours the lamp has been used.
Firmware Version	Shows the firmware version of your projector.

 **Some information is given only when certain input sources are in use.**

OSD menu structure

The OSD menus vary according to the signal type selected.

Main menu	Submenu	Options	
PICTURE	Picture Mode	Natural/Cinema/Dynamic/User 1/User 2	
	User Mode Settings	Load Settings Rename User Mode	
	Brightness		
	Contrast		
	Color		
	Tint		
	Sharpness		
		Select Gamma	1.8/2.0/2.1/2.2/2.3/2.4/2.6/Contrast Priority/ Brightness Priority/HLG
			Preset
			Red Gain
			Green Gain
		Color Temperature	Blue Gain
			Red Offset
			Green Offset
		Advanced	Blue Offset
			Primary Color
			Hue
		3D Color Management	Gain
			Saturation
			Color Enhancement
	MoviePro	Skin Tone	
		Super Resolution	
	Auto Aperture	Off/Low/High	
	Reset Current Picture Mode		
DISPLAY	Aspect Ratio	Auto/4:3/16:9/16:10	
	Image Position		
	Overscan Adjustment	0-3	
	Phase		
	H. Size		
	e-shift	Off/On	
INSTALLATION	Projector Mode	Front/Rear/Front Ceiling/Rear Ceiling	
	Test Pattern	Off/On	
		Lamp Mode	Normal/Eco
	Lamp Settings	Reset Lamp Timer	Reset/Cancel
		Lamp Information	Lamp Usage Time
	12V Trigger	Off/On	
	High Altitude Mode	On/Off	

Main menu	Submenu	Options	
SYSTEM SETUP: Basic	Language	English / Français / Deutsch / Italiano / Español / Русский / 繁體中文 / 简体中文 / 日本語 / Svenska / Türkçe / Čeština / Português / Norsk / Nederlands / Polski	
	Background Color	Green/Black/Blue	
	Splash Screen	Black/Blue/JVC	
	Auto Power Off	Disable/5 min/10 min/15 min/20 min/25 min/30 min	
	Direct Power On	Off/On	
	Menu Settings	Menu Position	Center/Top-Left/Top-Right/Bottom-Right/Bottom-Left
		Menu Display Time	Always On/5 sec/10 sec/15 sec/20 sec/25 sec/30 sec
		Reminder Message	Off/On
	Rename Input		
	Auto Input Search	Off/On	
SYSTEM SETUP: Advanced	HDR	Auto/SDR	
	EOTF	Low/Mid/High	
	HDMI Range	Auto/Standard/Enhance	
	Password	Change Password	
		Power On Lock	On/Off
	Panel Key Lock	Off/On	
	Reset All Settings	Reset/Cancel	
INFORMATION	Input		
	Picture Mode		
	Resolution		
	Color System		
	Lamp Usage Time		
	Firmware Version		

Maintenance


Care of the projector

Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface.

Before cleaning any part of the projector, turn it off using the proper shutdown procedure (see "[Shutting down the projector](#)"), unplug the power cable, and let it cool down completely.

- Use a canister of compressed air to remove dust.
- If there is dirt or smears, use lens-cleaning paper or moisten a soft cloth with lens cleaner and gently wipe the lens surface.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the projector surface and cabinet material.

 **Never touch the lens with your finger or rub the lens with abrasive materials. Even paper towels can damage the lens coating. Only ever use a proper photographic lens brush, cloth, and cleaning solution. Do not attempt to clean the lens while the projector is switched on or is still hot from previous use.**

Cleaning the projector case

Before cleaning any part of the projector, turn it off using the proper shutdown procedure (see "[Shutting down the projector](#)"), unplug the power cable, and let it cool down completely.

- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the case.

 **Never use wax, alcohol, benzene, thinner or other chemical detergents. These can damage the case.**

Storing the projector

To store the projector for an extended time:

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Refer to "[Specifications](#)" or consult your dealer about the range.
- Retract the adjuster feet.
- Remove the batteries from the remote control.
- Pack the projector in its original packing or equivalent.

Transporting the projector

It is recommended that you ship the projector with its original packing or equivalent.

Lamp information

Getting to know the lamp hour

When the projector is in operation, the duration (in hours) of lamp usage is automatically calculated by the built-in timer.

To obtain the lamp hour information:

1. Press **MENU**.
2. Use the arrow keys (◀/▶/▲/▼) to go to **INFORMATION** or enter the **INSTALLATION > Lamp Settings > Lamp Information** menu.
3. The **Lamp Usage Time** information displays.
4. Press **MENU** to exit.

Extending lamp life

The projection lamp is a consumable item. To keep the lamp life as long as possible, you can do the following settings via the OSD menu.

To access the OSD menu, see ["Using the OSD menu"](#) for details.

Setting Lamp Mode

Setting the projector in **Eco** mode extends the lamp life.

1. Go to **INSTALLATION > Lamp Settings > Lamp Mode**.
2. Press ◀/▶ to move to your desired mode, and press **OK**.
3. When done, press **MENU** to save your changes and exit.

Setting Auto Power Off

This function allows the projector to turn off automatically if no input source is detected after a set period of time.


1. Go to **SYSTEM SETUP: Basic > Auto Power Off**.
2. Press ◀/▶ to select a time period. If the preset time lengths are not suitable for your presentation, select **Disable**, and the projector will not automatically shut down in a certain time period.
3. When done, press **MENU** to save your changes and exit.

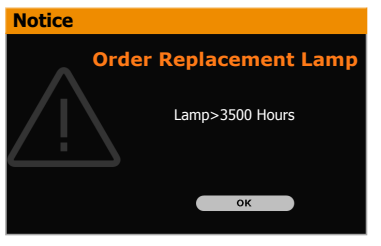
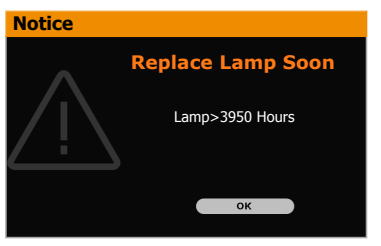

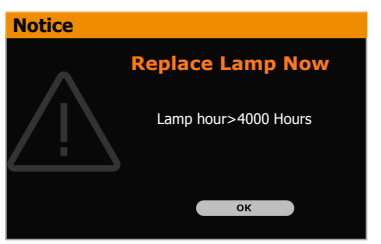

Timing of replacing the lamp

When the Lamp indicator lights up red or a message appears suggesting it is time to replace the lamp, please install a new lamp or consult your dealer. An old lamp may cause a malfunction in the projector and in some instances the lamp may explode.

The LAMP indicator light and TEMP warning light will light up if the lamp becomes too hot. Turn the power off and let the projector cool for 45 minutes. If the LAMP or TEMP indicator still lights up after turning the power back on, please contact your dealer. See "[Indicators](#)" for details.

The following lamp warning displays will remind you to change the lamp.

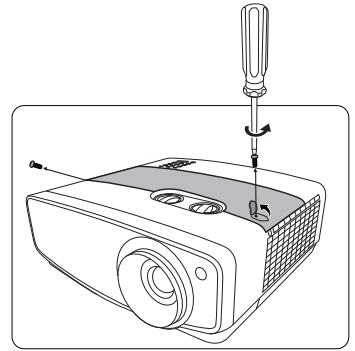
 The illustrations show below are for reference only and may differ from the actual design.

Status	Message
<p>The lamp has been in operation for 3500 hours. Install a new lamp for optimal performance. If the projector is normally run with Eco selected (See "Getting to know the lamp hour"), you may continue to operate the projector until the 3950 hour lamp warning appears.</p>	
<p>The lamp has been in operation for 3950 hours. A new lamp should be fitted to avoid the inconvenience when the projector runs out of lamp time.</p>	
<p>The lamp has been in operation for 4000 hours.</p> <p>It is strongly recommended that you replace the lamp at this age.</p> <p> The lamp is a consumable item. The lamp brightness diminishes with use. This is normal lamp behavior. You can replace the lamp whenever you notice that the brightness level has significantly diminished. If the lamp is not replaced beforehand, it must be replaced after 4000 hours usage.</p>	
<p>The lamp MUST be replaced before the projector will operate normally.</p>	

Replacing the lamp

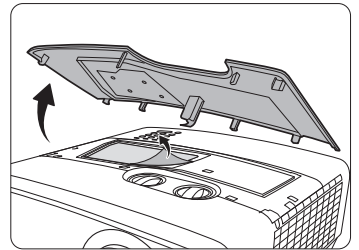
- ⚠ • To reduce the risk of electrical shock, always turn the projector off and disconnect the power cable before changing the lamp.
- To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.
- To reduce the risk of injuries to fingers and damage to internal components, use caution when removing lamp glass that has shattered into sharp pieces.
- To reduce the risk of injuries to fingers and/or compromising image quality by touching the lens, do not touch the empty lamp compartment when the lamp is removed.
- This lamp contains mercury. Consult your local hazardous waste regulations to dispose of this lamp in a proper manner.
- To assure optimal performance from the projector, it is recommended that you purchase a qualified projector lamp for lamp replacement.
- Ensure good ventilation when handling broken lamps. We recommend that you use respirators, safety glasses, goggles or face shield and wear protective clothing such as gloves.

-
1. Turn the power off and disconnect the projector from the power outlet. If the lamp is hot, avoid burns by waiting for approximately 45 minutes until the lamp has cooled.
 2. Use a pair of tweezers to remove the screw cap on the top of the lamp cover first. Loosen the screws that secure the lamp cover on the side and top of the projector until the lamp cover loosens.
-

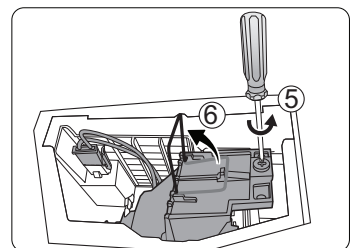


3. Remove the lamp cover from the projector.
4. Confirm a position of the lamp protection film to put a new film on the same position later, then remove and dispose of the lamp protection film.

- ⚠ • Do not turn the power on with the lamp cover removed.
- Do not insert your fingers between the lamp and the projector as the sharp edges inside the projector may cause injuries.



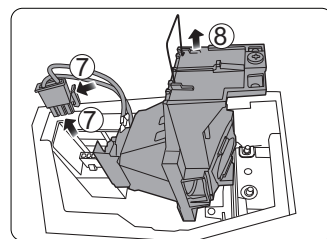
-
5. Loosen the screw that secures the lamp.
 6. Lift the handle so that it stands up.
-



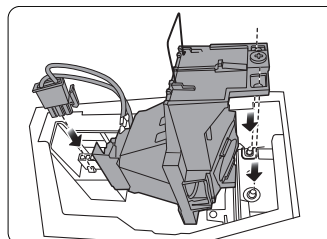
7. Disconnect the lamp connector from the projector.
8. Use the handle to slowly pull the lamp out of the projector.



- Pulling it too quickly may cause the lamp to break and scatter broken glass in the projector.
- Do not place the lamp in locations where water might splash on it, children can reach it, or near flammable materials.
- Do not insert your hands into the projector after the lamp is removed. If you touch the optical components inside, it could cause color unevenness and distortion of the projected images.



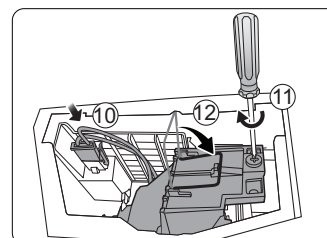
9. As shown in the illustration, lower the new lamp (replacement lamp: PK-L2417U). Insert the bulge at the bottom of the lamp securely into the hole inside the projector. If it is not properly inserted, it may cause decrease of brightness or damage the equipment.



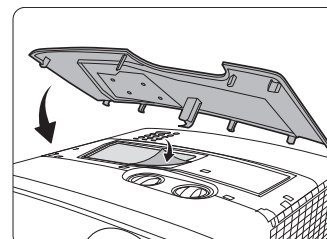
10. Insert the lamp connector.
11. Tighten the screw that secures the lamp.
12. Ensure the handle is fully laid flat and locked in place.



- Loose screws may cause a bad connection, which could result in malfunction.
- Do not over tighten the screw.



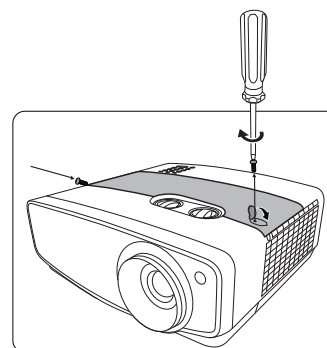
13. Replace the lamp protection film.
14. Replace the lamp cover on the projector.



15. Tighten the screws that secure the lamp cover.
16. Replace the screw cap.



- Loose screws may cause a bad connection, which could result in malfunction.
- Do not over tighten the screw.



17. Connect the power and restart the projector.
18. After the startup logo displays, reset the lamp timer via the OSD menu.



- Do not reset if the lamp is not new or replaced as this could cause damage.

A "Reset Successfully" message displays to notify that the lamp time has been reset to "0".

Indicators

There are 3 indicators which show the status of the projector. Check the following information about the indicator lights. If there is anything wrong, turn the projector off and contact your dealer.

Light			Status & Description
LAMP	TEMP	POWER	
Power events			
Off	Off	Orange	Stand-by mode
Off	Off	Green Flashing	Powering up
Off	Off	Green	Normal operation
Off	Off	Orange Flashing	Normal power-down cooling
Red Flashing	Red Flashing	Red Flashing	Downloading
Red	Off	Green	CW start fail
Red Flashing	Off	Green	CW spin fail
Red	Off	Red	Scaler shutdown fail (data abort)
Off	Off	Green	Burn-in ON
Green	Green	Green	Burn-in OFF
Lamp events			
Red	Off	Off	Lamp error in normal operation
Orange Flashing	Off	Off	Lamp is not lit up
Orange	Off	Green	Lamp life exhausted
Thermal events			
Off	Red	Red	Fan 1 error (the actual fan speed is outside the desired speed)
Off	Red Flashing	Red	Fan 2 error (the actual fan speed is outside the desired speed)
Off	Green	Red	Fan 3 error (the actual fan speed is outside the desired speed)
Off	Green Flashing	Red	Fan 4 error (the actual fan speed is outside the desired speed)
Off	Red	Red Flashing	Fan 5 error (the actual fan speed is outside the desired speed)
Off	Red	Green	Temperature 1 error (over limited temperature)

Troubleshooting

Problem	Cause	Remedy
The projector does not turn on.	There is no power from the power cable.	Plug the power cable into the AC inlet on the rear of the projector, and plug the power cable into to the power outlet. If the power outlet has a switch, make sure that it is switched on.
	Attempting to turn the projector on again during the cooling process.	Wait until the cooling down process has completed.
	The lamp cover is not securely attached.	Correctly attach the lamp cover.
No picture.	The video source is not turned on or connected correctly.	Turn the video source on and check that the signal cable is connected correctly.
	The projector is not correctly connected to the input source device.	Check the connection.
	The input source has not been correctly selected.	Select the correct source with the INPUT key on the projector or remote control.
Image is unstable.	The connection cables are not securely connected to the projector or the signal source.	Correctly connect the cables to the appropriate terminals.
Picture is blurred.	The projection lens is not correctly focused.	Adjust the focus of the lens using the focus ring.
	The projector and the screen are not aligned properly.	Adjust the projection angle and direction as well as the height of this projector if necessary.
	The lens cover is still closed. (If available)	Remove the lens cover. (If available)
Remote control does not work correctly.	The battery is out of power.	Replace both of the battery with new one.
	There is an obstacle between the remote control and the projector.	Remove the obstacle.
	You are too far away from the projector.	Stand within 8 meters (26.2 feet) of the projector.

Specifications

Projector specifications

 All specifications are subject to change without notice.

Optical

Resolution

3840 x 2160 with e-shift

Display system

Single-chip DLP™ system

Lens

F = 1.809, f = 14.3 to 22.9 mm

Lamp

240 W lamp

Electrical

Power supply

AC100–240V, 4.5 A, 50-60 Hz (Automatic)

Power consumption

370 W (Max); < 0.5 W (Standby);

Output terminals

12VDC (Max. 0.1 A) x 1

DC 5V output (Max. 1.5 A) x 1

Control

RS-232 serial control

9 pin x 1

IR receiver x 2

USB Mini-B x 1

Input terminals

Computer input

RGB input

D-Sub 15-pin (female) x 1

Video signal input

SD/HDTV signal input

Digital - HDMI x 2

Environmental Requirements

Operating temperature

0°C–40°C at sea level

Operating relative humidity

10%–90% (without condensation)

Operating altitude

0–1499 m at 0°C–35°C

1500–3000 m at 0°C–30°C (with

High Altitude Mode on)

Mechanical

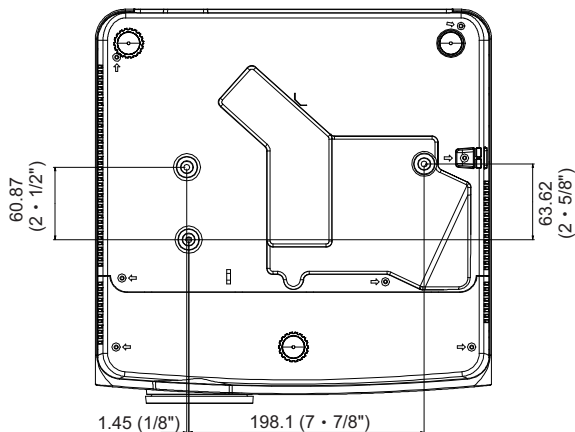
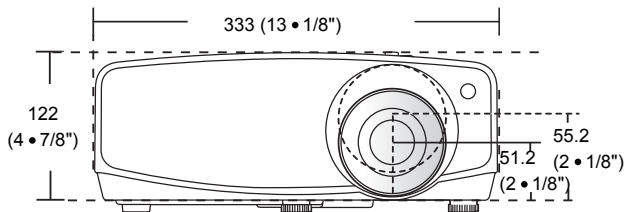
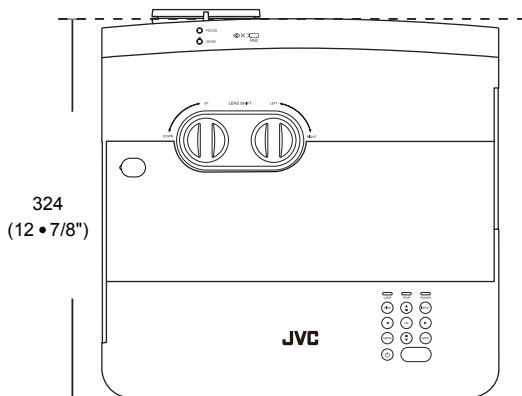
Weight

4.8 Kg (10.56 lbs)

Dimensions

333 mm x 324 mm x 122 mm (13 • 1/8" x 12 • 7/8" x 4 • 7/8") (W x D x H)

Unit: mm (inches)



Ceiling mount screws: M4

Max. L = 25 mm; Min. L = 20 mm


(Max. L = 1" ; Min. L = 7/8")

Timing chart

Supported timing for PC input

Format	Resolution	Refresh rate (Hz)	Horizontal Frequency (KHz)	Pixel Frequency (MHz)
720 x 400	720 x 400_70	70.087	31.469	28.3221
640 x 480	VGA_60	59.940	31.469	25.175
	VGA_72	72.809	37.861	31.500
	VGA_75	75.000	37.500	31.500
	VGA_85	85.008	43.269	36.000
800 x 600	SVGA_60	60.317	37.879	40.000
	SVGA_72	72.188	48.077	50.000
	SVGA_75	75.000	46.875	49.500
	SVGA_85	85.061	53.674	56.250
	SVGA_120 (Reduce Blanking)	119.854	77.425	83.000
1024 x 768	XGA_60	60.004	48.363	65.000
	XGA_70	70.069	56.476	75.000
	XGA_75	75.029	60.023	78.750
	XGA_85	84.997	68.667	94.500
	XGA_120 (Reduce Blanking)	119.989	97.551	115.500
1152 x 864	1152 x 864_75	75.00	67.500	108.000
1280 x 720	1280 x 720_60	60	45.000	74.250
	1280 x 720_120	120	90.000	148.500
1280 x 768	1280 x 768_60 (Reduce Blanking)	60	47.396	68.25
	1280 x 768_60	59.870	47.776	79.5
1280 x 800	WXGA_60	59.810	49.702	83.500
	WXGA_75	74.934	62.795	106.500
	WXGA_85	84.880	71.554	122.500
	WXGA_120 (Reduce Blanking)	119.909	101.563	146.25


1280 x 1024	SXGA_60	60.020	63.981	108.000
	SXGA_75	75.025	79.976	135.000
	SXGA_85	85.024	91.146	157.500
1280 x 960	1280 x 960_60	60.000	60.000	108
	1280 x 960_85	85.002	85.938	148.500
1360 x 768	1360 x 768_60	60.015	47.712	85.500
1440 x 900	WXGA+_60 (Reduce Blanking)	60	55.469	88.75
	WXGA+_60	59.887	55.935	106.500
1400 x 1050	SXGA+_60	59.978	65.317	121.750
1600 x 1200	UXGA	60.000	75.000	162.000
1680 x 1050	1680 x 1050_60 (Reduce Blanking)	59.883	64.674	119.000
	1680 x 1050_60	59.954	65.290	146.250
640 x 480@67Hz	MAC13	66.667	35.000	30.240
832 x 624@75Hz	MAC16	74.546	49.722	57.280
1024 x 768@75Hz	MAC19	74.93	60.241	80.000
1152 x 870@75Hz	MAC21	75.06	68.68	100.00
1920 x 1080@60Hz	1920 x 1080_60 (Reduce Blanking)	60	67.5	148.5
1920 x 1200@60Hz	1920 x 1200_60 (Reduce Blanking)	59.95	74.038	154

 The timings showing above may not be supported due to EDID file and VGA graphic card limitations. It is possible that some timings cannot be chosen.

Supported timing for HDMI (HDCP) input

Format	Resolution	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Pixel Frequency (MHz)
640 x 480	VGA_60	59.940	31.469	25.175
	VGA_72	72.809	37.861	31.500
	VGA_75	75.000	37.500	31.500
	VGA_85	85.008	43.269	36.000
720 x 400	720 x 400_70	70.087	31.469	28.3221
800 x 600	SVGA_60	60.317	37.879	40.000
	SVGA_72	72.188	48.077	50.000
	SVGA_75	75.000	46.875	49.500
	SVGA_85	85.061	53.674	56.250
	SVGA_120 (Reduce Blanking)	119.854	77.425	83.000
1024 x 768	XGA_60	60.004	48.363	65.000
	XGA_70	70.069	56.476	75.000
	XGA_75	75.029	60.023	78.750
	XGA_85	84.997	68.667	94.500
	XGA_120 (Reduce Blanking)	119.989	97.551	115.500
1152 x 864	1152 x 864_75	75.00	67.500	108.000
1280 x 720	1280 x 720_60	60	45.000	74.250
	1280 x 720_120	120	90.000	148.500
1280 x 768	1280 x 768_60 (Reduce Blanking)	60	47.396	68.25
	1280 x 768_60	59.870	47.776	79.5
1280 x 800	WXGA_60	59.810	49.702	83.500
	WXGA_75	74.934	62.795	106.500
	WXGA_85	84.880	71.554	122.500
	WXGA_120 (Reduce Blanking)	119.909	101.563	146.25
1280 x 1024	SXGA_60	60.020	63.981	108.000
	SXGA_75	75.025	79.976	135.000
	SXGA_85	85.024	91.146	157.500

1280 x 960	1280 x 960_60	60.000	60.000	108
	1280 x 960_85	85.002	85.938	148.500
1360 x 768	1360 x 768_60	60.015	47.712	85.500
1440 x 900	WXGA+_60 (Reduce Blanking)	60	55.469	88.75
	WXGA+_60	59.887	55.935	106.500
1400 x 1050	SXGA+_60	59.978	65.317	121.750
1600 x 1200	UXGA	60.000	75.000	162.000
1680 x 1050	1680 x 1050_60 (Reduce Blanking)	59.883	64.674	119.000
	1680 x 1050_60	59.954	65.290	146.250
640 x 480@67Hz	MAC13	66.667	35.000	30.240
832 x 624@75Hz	MAC16	74.546	49.722	57.280
1024 x 768@75Hz	MAC19	75.020	60.241	80.000
1152 x 870@75Hz	MAC21	75.06	68.68	100.00
1920 x 1080@60Hz	1920 x 1080_60 (Reduce Blanking)	60	67.5	148.5
1920 x 1200@60Hz	1920 x 1200_60 (Reduce Blanking)	59.95	74.038	154
3840 x 2160	3840 x 2160_30	30	67.5	297
3840 x 2160	3840 x 2160_60 Only via HDMI 1 port)	60	135	594

 The timings showing above may not be supported due to EDID file and VGA graphic card limitations. It is possible that some timings cannot be chosen.

Timing	Resolution	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Pixel Frequency (MHz)
480i	720 (1440) x 480	59.94	15.73	27
480p	720 x 480	59.94	31.47	27
576i	720 (1440) x 576	50	15.63	27
576p	720 x 576	50	31.25	27
720/50p	1280 x 720	50	37.5	74.25
720/60p	1280 x 720	60	45.00	74.25
1080/24P	1920 x 1080	24	27	74.25
1080/25P	1920 x 1080	25	28.13	74.25
1080/30P	1920 x 1080	30	33.75	74.25
1080/50i	1920 x 1080	50	28.13	74.25
1080/60i	1920 x 1080	60	33.75	74.25
1080/50P	1920 x 1080	50	56.25	148.5
1080/60P	1920 x 1080	60	67.5	148.5
2160/24P	3840 x 2160	24	54	297
2160/25P	3840 x 2160	25	56.25	297
2160/30P	3840 x 2160	30	67.5	297
2160/50P	3840 x 2160 (Only via HDMI 1 port)	50	112.5	594
2160/60P	3840 x 2160 (Only via HDMI 1 port)	60	135	594

Warranty and Copyright information

Warranty

JVCKENWOOD Corporation warrants this product against any defects in material and workmanship, under normal usage and storage.

Proof of purchase date will be required with any warranty claim. In the event this product is found to be defective within the warranty period, JVCKENWOOD Corporation's only obligation and your exclusive remedy shall be replacement of any defective parts (labor included). To obtain warranty service, immediately notify the dealer from which you purchased the product of any defects.

Important: The above warranty shall be void if the customer fails to operate the product in accordance with JVCKENWOOD Corporation's written instructions, especially the ambient humidity and altitude must meet the environmental requirements listed in the user manual, and avoiding to operate the projector in a dusty environment. This warranty gives you specific legal rights, and you may have other rights which vary from country to country.

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