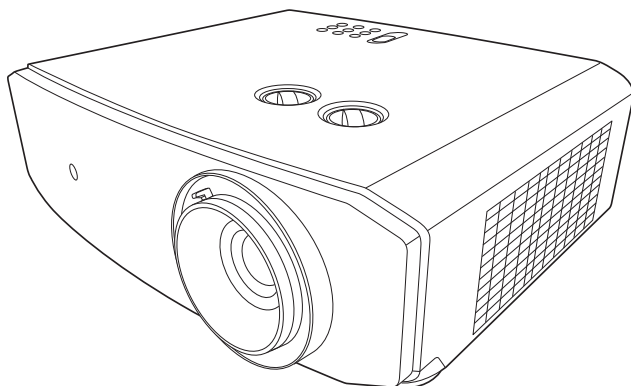


JVC

INSTRUCTIONS

DLP PROJECTOR

LX-NZ30



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

B5A-4412-11

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Safety precautions

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.

Supplier's Declaration of Conformity

Model Number: LX-NZ30BG, LX-NZ30WG

Trade Name: JVC

Responsible party: JVCKENWOOD USA Corporation

Address: 1440 Corporate Drive, Irving, TX 75038

Telephone Number: 678-449-8879

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 JVCKENWOOD 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 JVCKENWOOD 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. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
11. Never allow children to stare into the projector beam at any distance from the projector.
12. Do not turn on the projector with the remote control while in front of the projection lens.
13. Avoid using optical aids such as binoculars or telescopes inside the beam.
14. This projector is capable of displaying inverted images for ceiling mount installation. Use only a proper ceiling mount kit for mounting.
15. THIS APPARATUS MUST BE EARTHED.
16. 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.

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.

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

WARNING

LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 1 LASER PRODUCT

CAUTION

Do not look into the lens while in use.

Light source specifications

105 W Laser diodes x 1

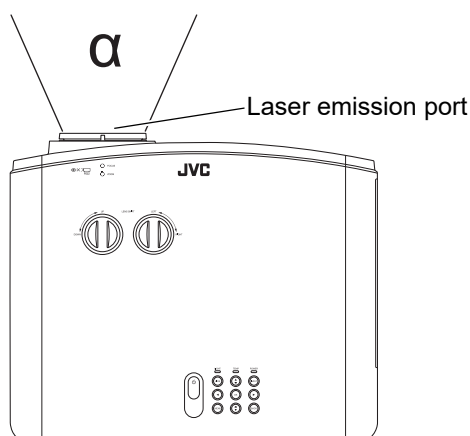
Wavelength 449 - 461 nm

Maximum output is 64 mW

Beam divergence angle from lens of this unit

Wide: $\alpha = 30.3^\circ$

Tele: $\alpha = 19.9^\circ$



CLASS 1 LASER PRODUCT

LASER CAUTION LABEL



- This product complies with EN60825-1: 2014+A11:2021.
- This product complies with EN50689:2021.
- This product is designed to project images on a wall or screen.

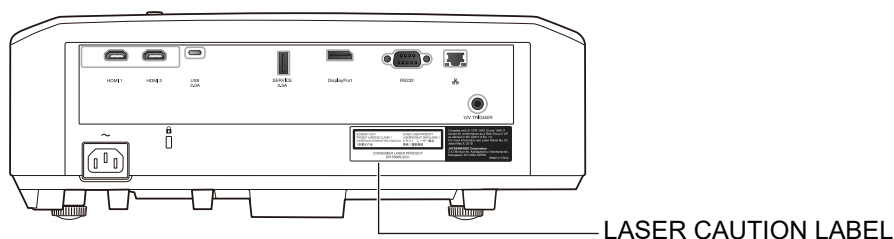
WARNING

Do not look into the lens while in use.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Location information of the label

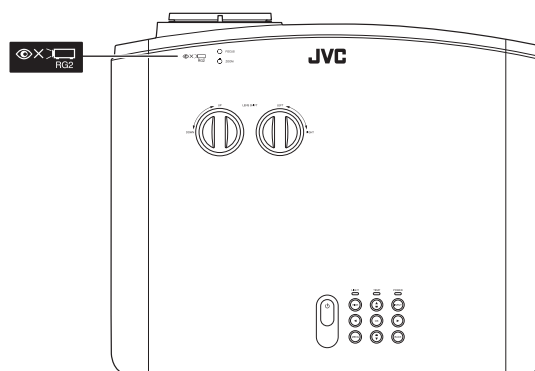


CAUTION

- Do not stare into the projector beam at any distance from the projector.
- Be careful to beam from lens when using the remote control for starting the projector while in front of the projection lens.
- Do not use of optical aids such as binoculars or telescopes inside the beam.

IEC62471-5

Location information of the icon



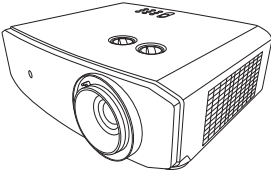
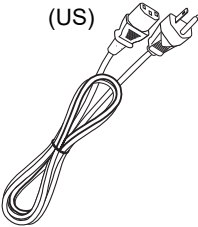
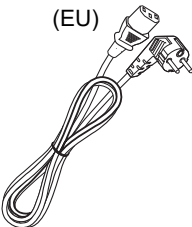
As with any bright light source, do not stare into the beam, RG2 IEC62471-5:2015

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.

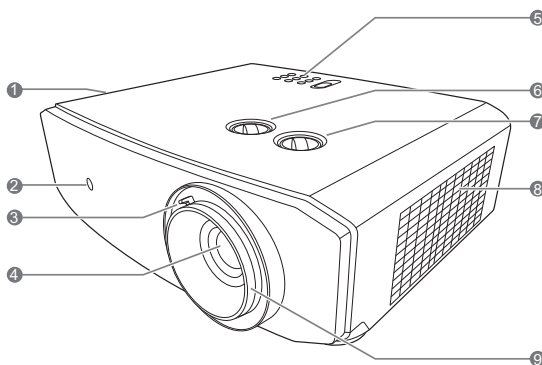
 **Some of the accessories may vary from region to region.**

		
Projector	Remote control and batteries	Quick start guide
 		
Power cable*		

 ***The power cable supplied is different according to regions.**

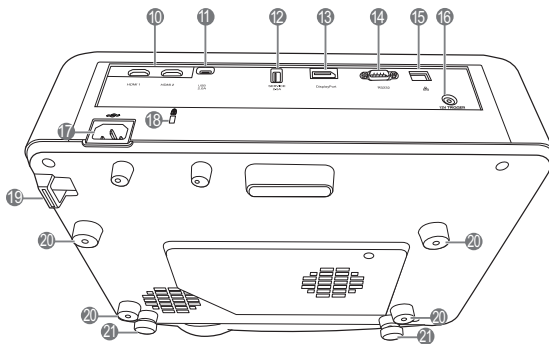
Projector exterior view

Front and upper side view



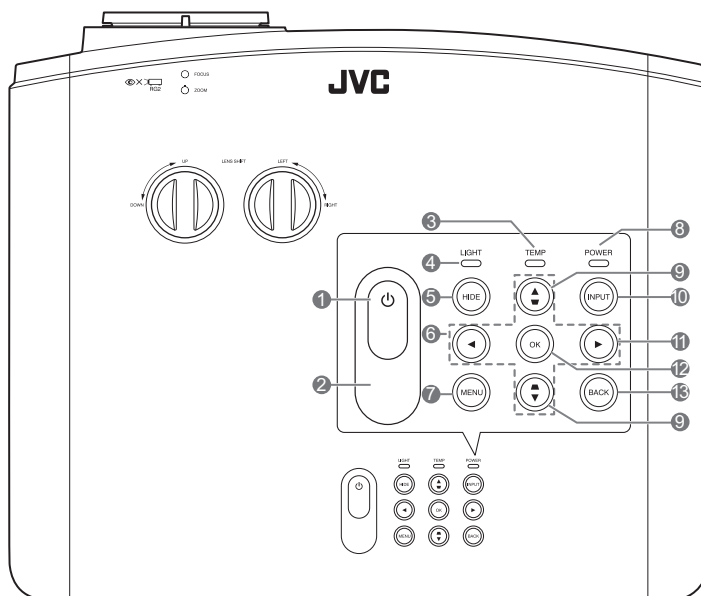
- 1. Vent (heated air exhaust)**
- 2. Front IR remote sensor**
- 3. Zoom ring**
Adjusts the size of the projected image.
- 4. Projection lens**
- 5. Control panel (See "Control panel" for details.)**
- 6. Lens shift knob (Left/Right)**
Adjusts the horizontal position of the projected image.
- 7. Lens shift knob (Up/Down)**
Adjusts the vertical position of the projected image.
- 8. Vent (cool air intake)**
- 9. Focus ring**
Adjusts the focus of the projected image.
- 10. HDMI ports (HDCP 2.3)**
- 11. USB port**
- 12. SERVICE (USB Type-A) port**
Used for charging external device.
- 13. DisplayPort port**
- 14. RS-232 control port**
- 15. RJ-45 LAN control port**
- 16. 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.
- 17. AC Power cable inlet**
- 18. Kensington lock slot**
- 19. Security bar**
- 20. Ceiling mount holes**
- 21. Adjuster feet**

Rear/bottom view



Controls and functions

Control panel



1. **POWER**

Toggles the projector between standby mode and on.

2. **Top IR remote sensor**

3. **TEMPerature warning light**

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

4. **LIGHT indicator light**

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

5. **HIDE**

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

6. **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.

7. **MENU**

Displays the menu, or hides the menu if it is displayed.

8. **POWER indicator light**

Lights up or flashes when the projector is under operation.

9. **Keystone keys (◀, ▲/▮, ▶, ▼ ▮)**

Launches the **Keystone** window when the OSD menu is not activated. Use ◀, ▲/▮, ▶, ▼ ▮ to manually correct distorted images resulting from an angled projection.

10. **INPUT**

Displays the source selection bar.

11. **▶**

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

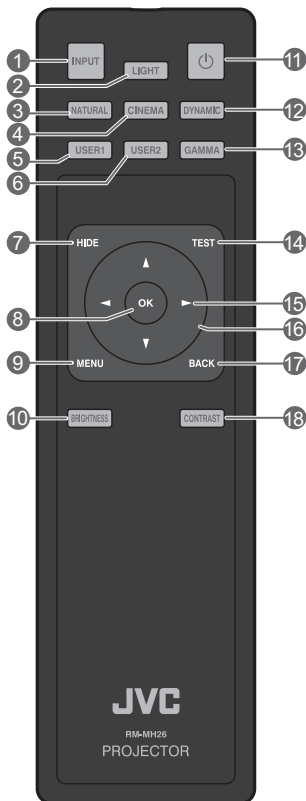
12. **OK**

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

13. **BACK**

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

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

Displays the menu, or hides the menu if it is displayed.

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 **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.

Launches the **Keystone** window when the OSD menu is not activated.

17. BACK

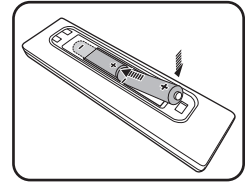
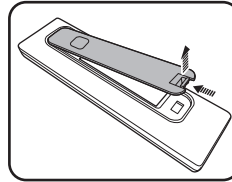
Goes back to previous OSD menu, exits and saves menu settings.

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.



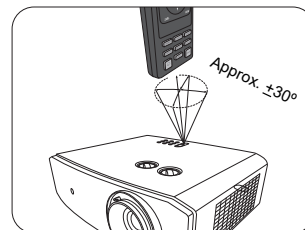
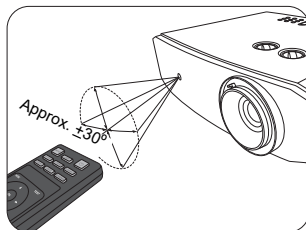
- **Avoid leaving the remote control and battery in an extremely high or low temperature like the kitchen, bathroom, sauna, sunroom or in a closed car.**
- **Replace only with the same or equivalent type recommended by the battery manufacturer.**
- **Dispose of the used batteries according to the manufacturer's 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.**
- **Do not subject the battery to extremely low air pressure at high altitude that may result in an explosion or the leakage of flammable liquid or gas.**

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**



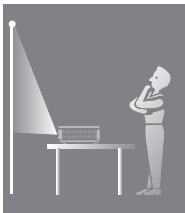
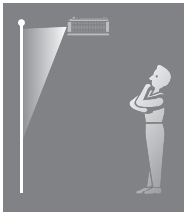
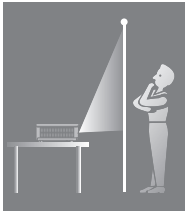
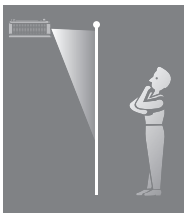
Installation

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.

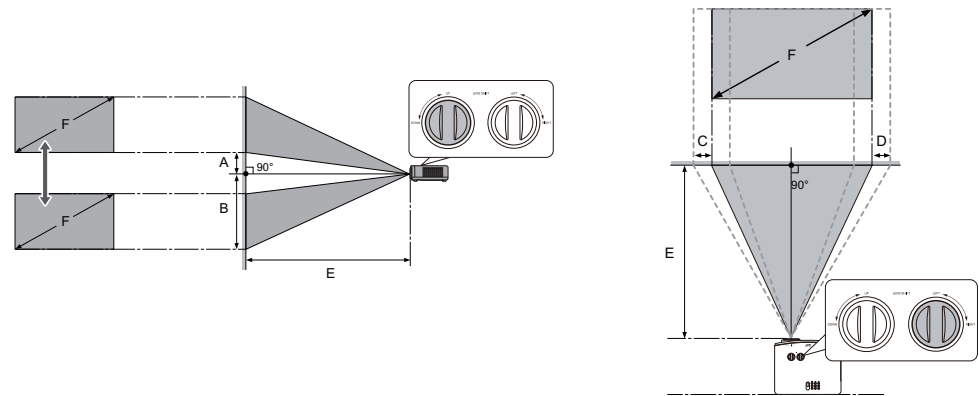
1. Front: Select this location with the projector placed near the floor in front of the screen. This is the most common way to position the projector for quick setup and portability. Turn on the projector and make the following settings: SYSTEM > Projector Mode > Front		3. Front Ceiling: Select this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

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

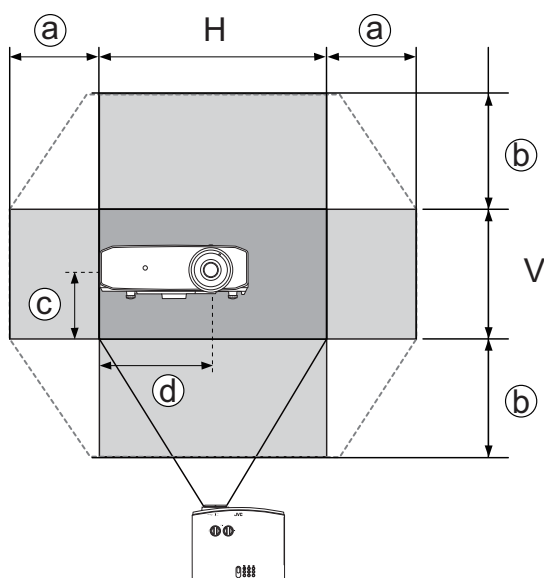
- The screen aspect ratio is 16:9 and the projected picture is in a 16:9 aspect ratio

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
80	203	39	100	70	177	94	240	151	384	3.9	10	43.1	110	16.0	41
90	229	44	112	78	199	106	270	170	432	4.4	11	48.5	123	18.0	46
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
110	279	54	137	96	244	130	330	208	528	5.4	14	59.3	151	22.1	56
120	305	59	149	105	266	142	360	227	576	5.9	15	64.7	164	24.1	61
130	330	64	162	113	288	154	390	246	624	6.4	16	70.1	178	26.1	66
140	356	69	174	122	310	165	420	265	672	6.9	17	75.5	192	28.1	71

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
150	381	74	187	131	332	177	450	283	720	7.4	19	80.9	205	30.1	76
160	406	78	199	139	354	189	480	302	768	7.8	20	86.3	219	32.1	81
170	432	83	212	148	376	201	510	321	816	8.3	21	91.7	233	34.1	87
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



- a: Maximum horizontal range ($H \times 23\%$)
- b: Maximum vertical range ($V \times 60\%$)
- c: 1/2 the vertical height of the image
- d: 1/2 the horizontal width of the image

⚠ 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.

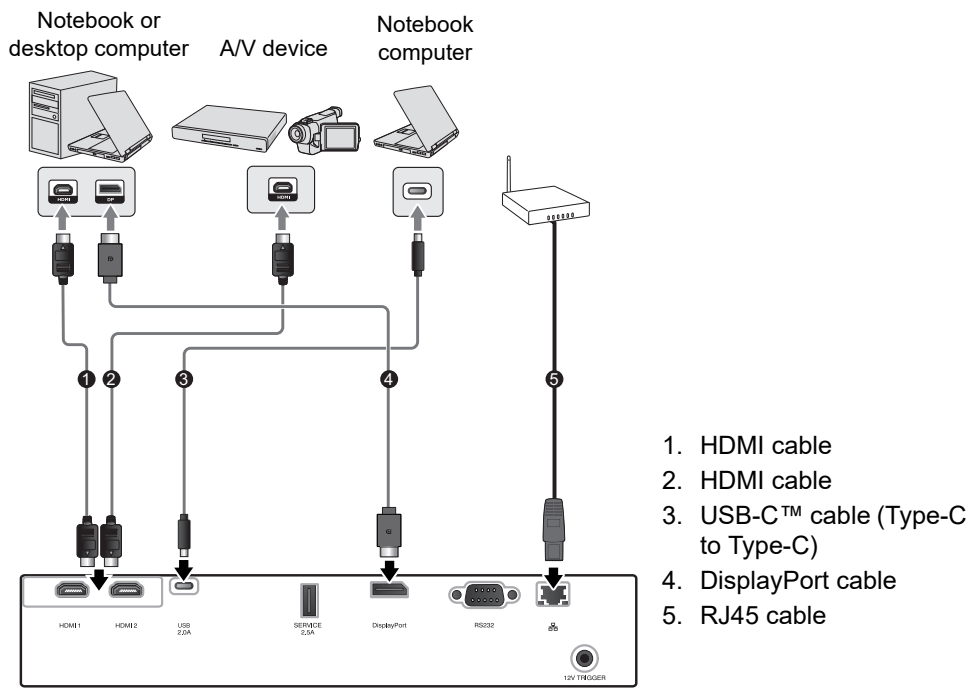
- ☞
- You cannot move the image to both the horizontal and vertical maximum values.
 - Lens shift adjustment does not result in a degraded picture quality. In the unlikely event that the image distortion is produced, see ["Adjusting the projected image"](#) for details.

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	2.3	4K/HDR source
HDMI 2	2.3	4K/HDR source
USB	2.3	4K/HDR source
DisplayPort	2.3	4K/HDR source

-  **HDMI 1 and HDMI 2 connectors support 4K (Ultra HD)/HDR.**
-  **Use a certified Premium High Speed HDMI Cable (18 Gbps compatible) and connect to HDMI terminal when inputting 4K video signals from an external device.**
-  **USB supports DP Alt Mode with 5V/2A output.**
-  **Use USB-IF certified USB-C™ cable that supports DP Alt Mode and connect to USB port. This port only supports Type-C to Type-C cables.**
-  **Connection with all DP Alt Mode compatible devices is not guaranteed.**

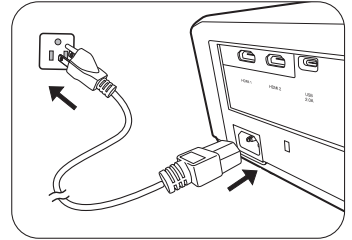
Operation

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 flashes green after power has been applied.

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

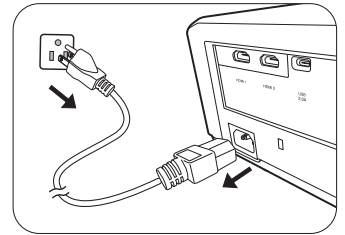
2. Press  to start the projector. The **POWER indicator light** stays green when the projector is on. The fans start operating, and a start-up image displays on the screen while it warms up. The projector does not respond to further commands while it is warming up.



Shutting down the projector

1. Press . The projector displays a shutdown confirmation message.
2. Press  a second time. The **POWER indicator light** flashes green and the fans run for about two minutes to cool the light source. The projector doesn't respond to any commands during the cooling process.
3. When the cooling process ends, the **POWER indicator light** will flash green. 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 light source life. The actual light source life may vary due to different environmental conditions and usage.**



Selecting an input source

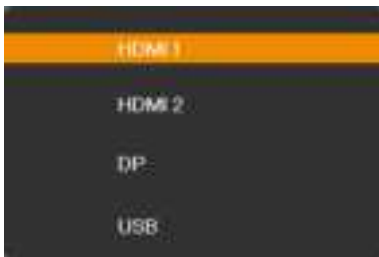
The projector can be connected to multiple equipment at the same time. However, it only displays one full screen at a time. When starting up, the projector automatically searches for the available signals.

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

- Go to the **SYSTEM** menu, and then enable **Auto Input Search**. (see "[Auto Input Search](#)" on [page 26](#))

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.

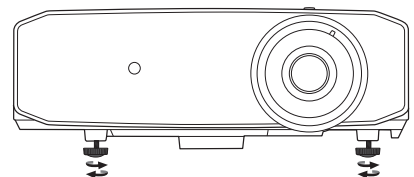
 Refer to "[Projector specifications](#)" for the native display resolution of this projector. For best display picture results, you should select and use an input signal which outputs at this resolution. Any other resolutions will be scaled by the projector depending upon the Aspect Ratio setting, which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

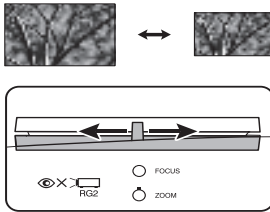
 If the screen and the projector are not perpendicular to each other, the projected image becomes vertical trapezoidal. To correct this, see "[Correcting keystone](#)" for details.



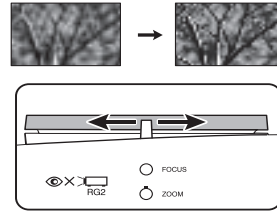
 Do not look into the lens while the light source is on. The strong light from the light source may cause damage to your eyes.

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

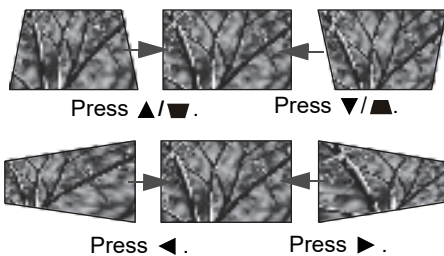
Keystoning refers to the situation where the projected image becomes a trapezoid due to angled projection. It occurs when the projector is not perpendicular to the screen.

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 ▲/▼.
- To correct keystone at the right side of the image, use ◀ or ▶.
- To correct keystone at the left side of the image, use ◀ or ▶.

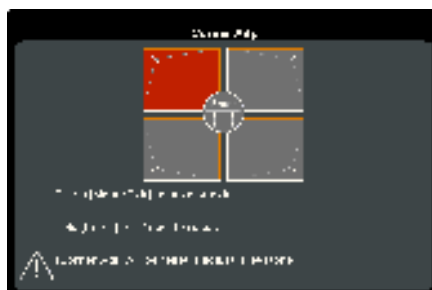
When done, press **BACK** to save your changes and exit.

 Depending on your installation conditions, keystone correction may not be possible. In such a case, if possible, reset the installation conditions and project straight to the screen.

Adjusting 4 corners

You can manually adjust four corners of the image by setting the horizontal and vertical values.

1. Go to **DISPLAY** menu, select **Corner Adj.** and press **OK**.
2. Press **▲/▼/◀/▶** to select one corner and press **OK**.
3. Select 45° or 90° angle adjustment and press **OK**.
4. Follow the on-screen instructions and use **▲/▼/◀/▶** to adjust different values.

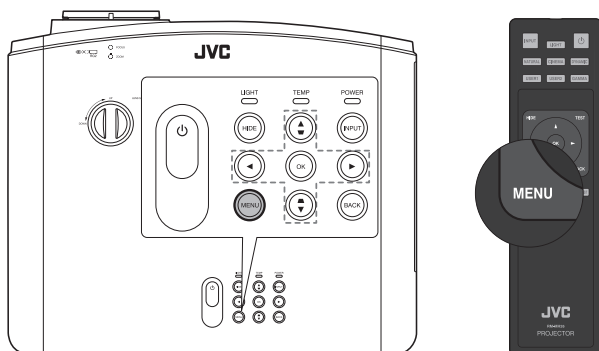


 Press and hold OK for two seconds to reset corner adjust to default value.

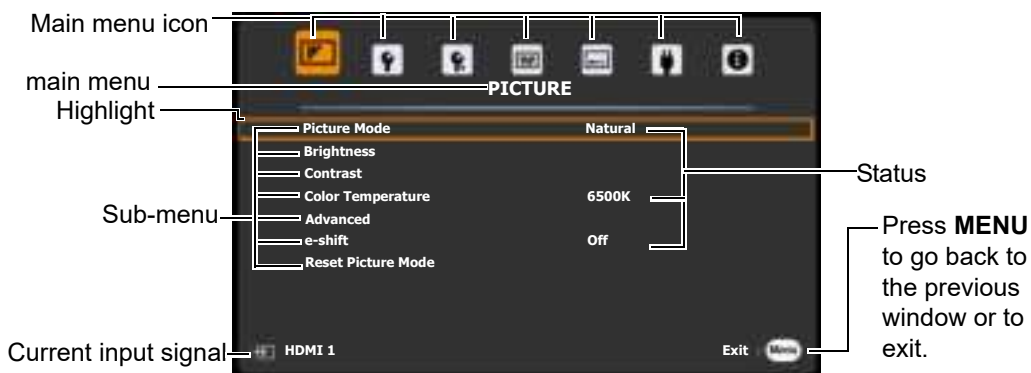
Menu Functions

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.

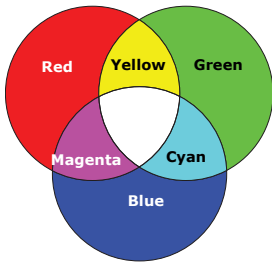
1. **PICTURE** menu (see page [22](#))
2. **BASIC** menu (see page [24](#))
3. **ADVANCED** menu (see page [25](#))
4. **SYSTEM** menu (see page [26](#))
5. **DISPLAY** menu (see page [28](#))
6. **POWER MANAGEMENT** menu (see page [29](#))
7. **INFORMATION** menu (see page [30](#))

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.

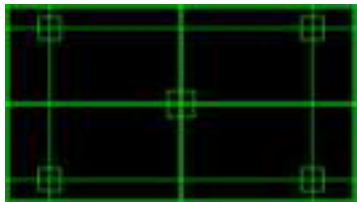
PICTURE menu

Submenu	Functions and Descriptions
Picture Mode	Selects a preset picture mode to suit your operating environment and input signal picture type. The preset picture modes are described as below: • 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. • Gaming: Best for playing video games in rooms where there is a small amount of ambient light.  When Gaming mode is selected, Low Latency Mode is turned On. • Animation: For viewing animations. • 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.  When HDR10 or HLG (Hybrid Log-Gamma) content is inputted to the projector, it automatically switches to the appropriate picture mode.
Brightness	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.    The higher the value, the brighter the picture, while the lower the value, the darker the picture.
Contrast	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.    The higher the value, the greater the contrast.
Color Temperature	Settings: 9500K, 8500K, 7500K, 6500K, 5500K You can also set a preferred color temperature by adjusting the following options. • 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. This function is not available when Color Space is set to YCbCr during YCbCr input and also not available when the Color Space is set to Auto and full range YCbCr signal is input.

Submenu	Functions and Descriptions
Advanced	Sharpness Makes the picture look sharper or softer.  The higher the value, the sharper the picture becomes. The lower the value, the softer the picture becomes.
	Gamma Gamma refers to the relationship between input source and picture brightness. 2.2: Normal gamma value. 1.8/2.0/2.4/2.6: The higher the value, the darker the picture.  This function is disabled under HDR mode.
	Picture Tone 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.  This function is only adjustable under HDR10 or HLG picture mode.
	BrilliantColor Select the level of BrilliantColor from 2 to 10 in increments of 1. The default is Off.
	Color Management Provides six sets (RGBCMY) of colors to be adjusted. You can select any of them to adjust its color range and saturation. - Press OK to display the Color Management window. - Select Primary Color and use ◀/▶ to select a color from R (Red), G (Green), B (Blue), C (Cyan), M (Magenta), and Y (Yellow). - 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.  The illustration shows how the colors relate to each other. 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.

Submenu	Functions and Descriptions
Advanced	4. Press ▼ to select Saturation* and use ◀/▶ to adjust its values. Every adjustment made reflects to the image immediately. 5. 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. 6. Repeat steps 2 to 5 until you have made all of the desired adjustments. 7. When done, press BACK to exit. *About saturation 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.
e-shift	Switches the display resolution. • Off: Switches to 1080p resolution. • On (recommended): Switches to 4K resolution.
Reset 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.

BASIC menu

Submenu	Functions and Descriptions
Pattern	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. 
Blank Timer	Select the Blank Timer from 5 to 30 minutes in increments of 5. The default is Disable .
Message	Press OK to enter Message menu. Select Off to disable messages such as source information and best resolution. The default is On .
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.
Background Color	Sets the background color for the projector.

ADVANCED menu

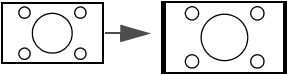
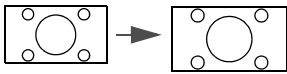
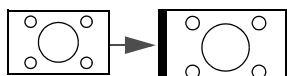
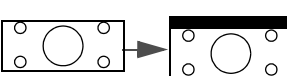
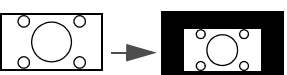
Submenu	Functions and Descriptions
Input Settings	• Color Space Sets the Color Space to Auto, RGB, or YCbCr. • Input Level Sets the Input Level to Auto, Enhanced, or Normal.
LAN Control Settings	• LAN Settings Press OK to enter LAN Control Settings menu. In LAN Settings, select between DHCP ON and Static IP. 1. When Static IP is selected, press ▼ to select Projector IP Address and use ◀/▶ to select number. 2. Press ▼ to select Subnet Mask and use ◀/▶ to select number. 3. Press ▼ to select Default Gateway and use ◀/▶ to select number. 4. Press ▼ to select DNS Server and use ◀/▶ to select number. • Standby LAN Control When Standby LAN Control is On, LAN function is available during standby (LAN power standby). When it is Off, LAN function is not available during standby (Low power standby). After the above settings, choose Apply to take effect.
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 when Auto is selected.
Low Latency Mode	Low Latency Mode minimizes the response time between the input source and the display image. This function supports the following timings: • 4K 60Hz • 1080p 60/120/144/192/200/240 Hz
Light Source Settings	• Light Source Mode Select the projector light source power from the following modes. • Normal: Provides full light source brightness. • Eco: Reduces system noise and light source power consumption by 30%. • Dynamic Eco: Light source power will vary depending on the content being displayed. If the Eco or Dynamic Eco mode is selected, the light output will be reduced and result in darker projected pictures. See "Setting Light Source Mode" for details. • Light Source Hours Information Select to learn the duration (in hours) of light source usage which is automatically calculated by the built-in timer.
Reset Settings	Press OK to reset all settings.  The following functions will not be changes: Keystone, Corner Adj., Warping, Zoom, Digital Zoom (when adjust value < 1.0x), Digital Zoom, LAN Control Settings, Language, Projector Mode, High Altitude Mode, Password, Control Method and Baud Rate.

SYSTEM menu

Submenu	Functions and Descriptions
Language	Sets the language for the On-Screen Display (OSD) menus.
Projector Mode	See " Choosing a location " for details.
Menu Settings	• Menu Display Time Sets the length of time the OSD will remain active after your last key press. • Menu Position Sets the OSD menu position.
High Altitude Mode	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. 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. 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.
Auto Input Search	Sets whether the projector searches automatically for input sources. 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.
Password	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.  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. 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. • 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.  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.  If you forget the password, seek help from the local JVC service center. 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	With the control keys on the projector locked, you can prevent your projector settings from being changed accidentally (by children, for example). When you select On to enable this function, no control keys on the projector will function, except  POWER. To unlock the keys, press and hold  on the projector for 3 seconds or select Off here using the remote control.  The function is accessible through the remote control or keypad.
Control Method	Select Control Method between RS232 or SERVICE Terminal .
Baud Rate	Selects a baud rate that is identical with your computer's so that you can connect the projector using a suitable RS-232 cable and update or download the projector's firmware. This function is intended for qualified service personnel.

DISPLAY menu

Submenu	Functions and Descriptions
Aspect Ratio	☞ In the following illustrations, the black portions are inactive areas and the white portions are active areas. Auto  15:9 picture 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  4:3 picture Scales the picture so that it is displayed in the center of the screen with a 4:3 aspect ratio. 16:9  16:9 picture Scales a picture so that it is displayed in the center of the screen with a 16:9 aspect ratio. 16:10  16:10 picture Scales a picture so that it is displayed in the center of the screen with a 16:10 aspect ratio. 2.35:1  2.35:1 picture Scales a picture so that it is displayed in the center of the screen with a 2.35:1 aspect ratio. Native  4:3 picture  16:9 picture Projects an image as its original resolution and resizes it to fit within the display area. For input signals with lower resolutions, the projected image will be displayed in its original size.
Keystone	Manual Adjusts the keystone situation where the projected image becomes a trapezoid due to angled projection. You can manually correct the image deformation by adjusting the vertical/horizontal keystone, or rotating the image. Select the item you want to adjust and use ◀, or ▶.
Corner Adj.	See "Adjusting 4 corners" on page 20 for details.

Submenu	Functions and Descriptions
Warping	This function aims at correcting the geometric distortion of the projector's images when they are projected onto an uneven surface such as a cylinder, a spherical shape, etc. • Enable When this function is enabled, the following functions will not be available: Keystone, Corner Adj.. • Control Method Allows you to select a preferred control method for warping adjustment. • Warping Adj. This function is available when On is selected in the Warping > Enable menu and OSD is selected in the Warping > Control Method menu. 1. Use ▲/▼/◀/▶ to move the cursor to the point you wish to adjust. 2. Press OK to enter adjustment mode. 3. Use ▲/▼/◀/▶ to shift the point by x and y coordinates. 4. Press MENU to exit adjustment mode. 5. Repeat step 1 to 4 to adjust another point until you are satisfied with the projected image. 6. Press MENU to exit the function. • Reset Returns settings in the Warping menu to the factory preset values.
Zoom	Zoom your lens between 0.8X ~ 2.0X. The default is 1.0 X.
Digital Zoom	Digitally zoom the vertical/horizontal focus from -50 to 50.  The function is not available when Zoom is 1.0X or higher.

POWER MANAGEMENT menu

Submenu	Functions and Descriptions
Auto Power On	• Signal When Signal is set to HDMI, projector will auto power up from standby mode when HDMI signal is plugged into projector. • Direct Power On Allows the projector to turn on automatically once the power is fed through the power cord.
Power Settings	• Auto Power Off Prevents unnecessary projection when no signal is detected for a long time. See "Setting Auto Power Off" for details. • Sleep Timer Set the timer to turn off the projector. A confirmation message will pop up to confirm turning off the projector when the timer counts down to zero. • Power Saving Light source will enter low energy mode if there is no signal for 5 minutes.

Submenu	Functions and Descriptions
12V Trigger	There is one 12V trigger that works according to your needs for installation scenarios. Two selections are available: • 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.

INFORMATION menu

Submenu	Functions and Descriptions
Input	Displays the current signal source.
Resolution	Displays the native resolution of the input source.
MaxCLL / FALL	Displays the Maximum Content Light Level detected and the Maximum Frame Average Light detected.
Color System	Displays input system format.
IP Address	Displays the current IP Address .
MAC Address	Displays the current MAC Address .
Firmware Version	Displays the firmware version of your projector.
Low Latency Mode	Displays the current Low Latency Mode .
S/N	Displays the serial number 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/Gaming/Animation/User 1/User 2
	Brightness	
	Contrast	
	Color Temperature	9500K/8500K/7500K/6500K/5500K
		Red Gain
		Green Gain
		Blue Gain
		Red Offset
		Green Offset
		Blue Offset
	Sharpness	
	Gamma	1.8/2.0/2.2/2.4/2.6
	Picture Tone	-2/-1/0/+1/+2
	BrilliantColor	Off/1/2/3/4/5/6/7/8/9/10
	Advanced	Primary Color
		Hue
		Gain
		Saturation
BASIC	e-shift	Off/On
	Reset Picture Mode	Reset/Cancel
	Pattern	Off/On
	Blank Timer	Disable/5 min/10 min/15 min/20 min/25 min/30 min
	Message	Off/On
	Splash Screen	Black/Blue/JVC
	Background Color	Green/Black/Blue
ADVANCED	Input Settings	Color Space
		Input Level
	LAN Control Settings	LAN Settings
		Projector IP Address
		Subnet Mask
		Default Gateway
		DNS Server
		Standby LAN Control
		Apply
	HDR	HDR/HLG
	Low Latency Mode	Auto/SDR
	Light Source Settings	Off/On
		Light Source Mode
		Normal/Eco/Dynamic Eco
		Light Source Usage Time
	Light Source Hours Information	Normal
		Eco
		Dynamic Eco
	Reset Settings	Reset/Cancel

Main menu	Submenu		Options
SYSTEM	Language		English / Deutsch / Español / Italiano / Français / Português / Nederlands / Русский / Polski / Čeština / Svenska / Türkçe/ 简体中文 / 繁體中文 / 日本語 / فارسی
	Projector Mode		Front/Rear/Front Ceiling/Rear Ceiling
	Menu Settings	Menu Display Time	Always On/5 sec/10 sec/15 sec/20 sec/25 sec/30 sec
		Menu Position	Center/Top-Left/Top-Right/Bottom-Right/Bottom-Left
	High Altitude Mode		Off/On
	Auto Input Search		Off/On
	Password	Change Password	
		Power On Lock	Off/On
	Panel Key Lock		Off/On
	Control Method	RS232	
		SERVICE Terminal	
Baud Rate		2400/4800/9600/14400/19200/38400/57600/115200	
DISPLAY	Aspect Ratio		Auto/4:3/16:9/16:10/2.35:1/Native
	Keystone	Manual	Vertical
			Horizontal
			Rotation
	Corner Adj.	Top-Right	45°/90°
		Top-Left	45°/90°
		Bottom-Right	45°/90°
		Bottom-Left	45°/90°
	Warping	Enable	Off/On
		Control Method	OSD
			RS232
		Warping Adj.	
	Reset		
Zoom		0.8X ~2.0X	
Digital Zoom		Vertical/ Horizontal: -50 ~ 50	
POWER MANAGEMENT	Auto Power On	Signal	Disable/HDMI
		Direct Power On	Disable/Enable
	Power Settings	Auto Power Off	Disable/10 min/20 min/30 min
		Sleep Timer	Disable/30 min/1 hr/2 hr/3 hr/4 hr/8 hr/12 hr
		Power Saving	Enable/Disable
12V Trigger		Off/On	
INFORMATION	Input		
	Resolution		
	MaxCLL / FALL		
	Color System		
	IP Address		
	MAC Address		
	Firmware Version		
	Low Latency Mode		
	S/N		

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.

Light source information

Getting to know the light source hour

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

To obtain the light source hour information:

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

Extending light source life

To keep the light source 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 Light Source Mode

Light source life can be extended by changing the light source mode.

1. Go to **Advanced > Light Source Settings > Light Source 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 **POWER MANAGEMENT > Power Settings > 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.

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
LIGHT 	TEMP 	POWER 	
Power events			
Off	Off	Green Flashing	Stand-by mode
Off	Off	Green	Powering up
Off	Off	Green	Normal operation
Off	Off	Green Flashing	Normal power-down cooling
Off	Off	Red	Downloading
Red	Off	Green	Color wheel fail
Red Flashing	Off	Green	Phosphor wheel fail
Light source events			
Red	Off	Off	Light source error in normal operation
Red	Off	Green Flashing	Light source is not lit up
Thermal events			
Off	Red	Off	Fan 1 error (the actual fan speed is outside the desired speed)
Red	Red	Off	Fan 2 error (the actual fan speed is outside the desired speed)
Green	Red	Off	Fan 3 error (the actual fan speed is outside the desired speed)
Orange	Red	Off	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 Flashing	Red Flashing	Fan 6 error (the actual fan speed is outside the desired speed)
Red	Green	Off	Fan ic1 error (the communication between scaler and fan ic1 is not built up)
Red	Green Flashing	Off	Fan ic2 error (the communication between scaler and fan ic2 is not built up)
Red	Red	Orange	Temperature 1 error (over limited temperature)
Orange	Orange Flashing	Orange	MCU download

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.
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.
	The HDMI cable does not support 4K signal.	Use a certified Premium High Speed HDMI Cable (18 Gbps compatible).
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

1920 x 1080
3840 x 2160 with e-shift

Display system

Single-chip DLP™ system

Lens

F = 1.809, f = 14.3~22.9 mm

Light source

Laser

Electrical

Power supply

AC100–240V, 4 A, 50-60 Hz (Automatic)

Power consumption

340 W (Max); < 0.5 W (Standby);
LAN: < 2 W

Output terminals

12VDC 2.5 (Max. 0.5 A) x 1
3.5 mm stereo mini-jack

DC 5V output (Max. 2.5 A) x 1

SERVICE (USB-Type-A) port

Control

RS-232 serial control

9 pin x 1

IR receiver x 2

RJ45 LAN x 1

Input terminals

Video signal input

SD/HDTV signal input

Digital - HDMI x 2

Digital - USB x 1

Digital - DisplayPort x 1

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

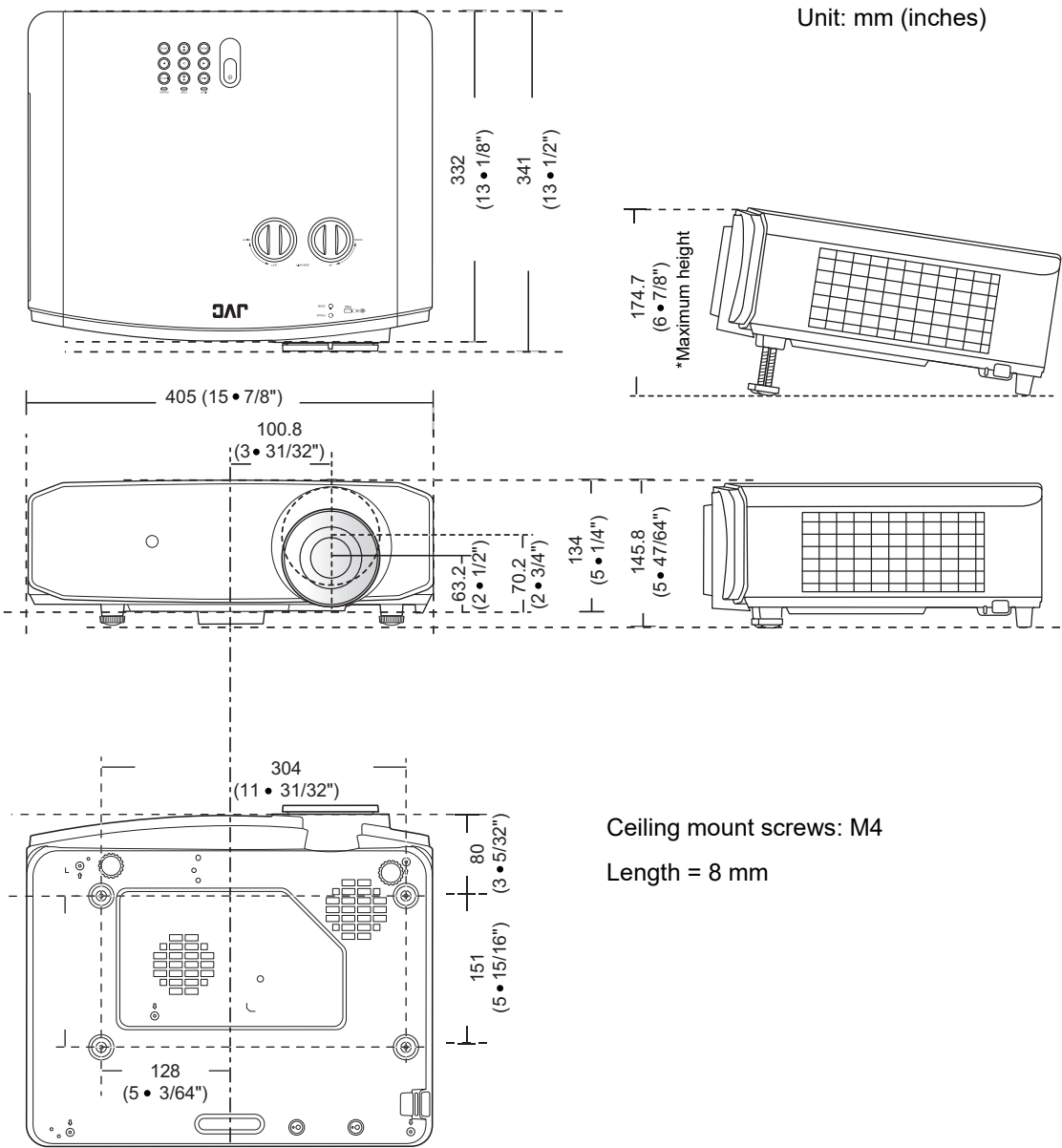
Weight

5.9 Kg (13.01 lbs)

Dimensions

405 mm x 341 mm x 146 mm (15 • 7/8" x 13 • 1/2" x 5 • 3/4") (W x D x H)

Unit: mm (inches)



Ceiling mount screws: M4
Length = 8 mm

Timing chart

Supported timing for DisplayPort, HDMI (HDCP) and USB 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
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	60	67.5	148.5
1920 x 1200@60Hz	1920 x 1200_60 (Reduce Blanking)	59.95	74.038	154
1920 x 1080 (VESA)	1920X1080_60 (for Auditorium model)	59.963	67.158	173
1920 x 1080@ 120Hz	1920 x 1080_120	120.000	135.000	297
1920 x 1080@ 240Hz	1920 x 1080_240	239.76	291.309	582.617
1920 x 1200 @120Hz	1920 x 1200_120 (Reduce Blanking)	119.909	152.404	317.00
3840 x 2160	3840 x 2160_30	30	67.5	297
3840 x 2160	3840 x 2160_60	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)
480p	720 x 480	59.94	31.47	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
1080/50i	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
1080/120p	1920 x 1080	120	135	297
1080/240p	1920 x 1080	240	135	594
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	50	112.5	594
2160/60p	3840 x 2160	60	135	594

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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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