



Digital Projector User Manual

CinePrime Series I W5700

V 1.01



Warranty and Copyright information

Limited warranty

BenQ 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, BenQ'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 BenQ's written instructions, especially the ambient humidity must be in-between 10% and 90%, temperature in-between 0°C and 35°C, altitude lower than 4920 feet, 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.

For other information, please visit www.BenQ.com.

Copyright

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*DLP, Digital Micromirror Device and DMD are trademarks of Texas Instruments. Others are copyrights of their respective companies or organizations.

Patents

Please go to <http://patmarking.benq.com/> for the details on BenQ projector patent coverage.

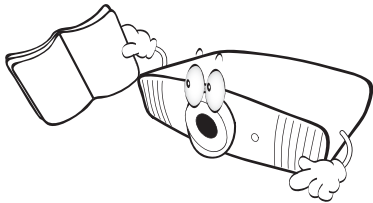
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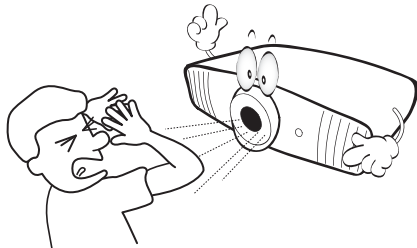
Important safety instructions

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.

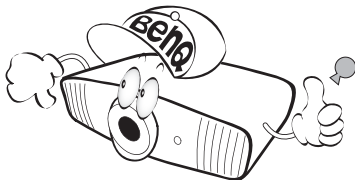
1. **Please read this manual before you operate your projector.** Save it for future reference.



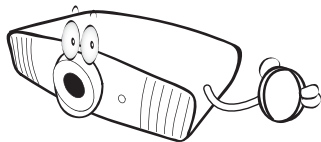
2. **Do not look straight at the projector lens during operation.** The intense light beam may damage your eyes.



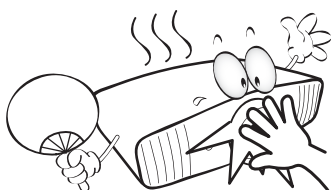
3. **Refer servicing to qualified service personnel.**



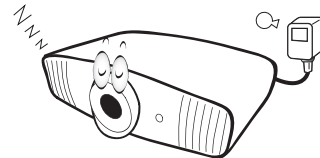
4. **Always open the lens shutter (if any) or remove the lens cap (if any) when the projector lamp is on.**



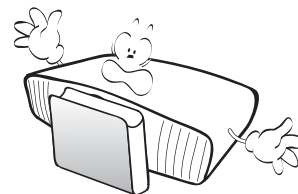
5. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.



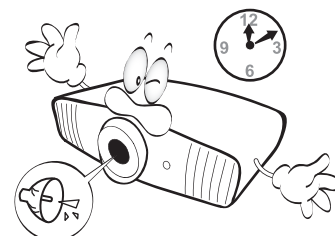
6. In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a mains voltage between 100 to 240 volts AC, but could fail if power cuts or surges of ± 10 volts occur. **In areas where the mains voltage may fluctuate or cut out, it is recommended that you connect your projector through a power stabilizer, surge protector or uninterruptible power supply (UPS).**



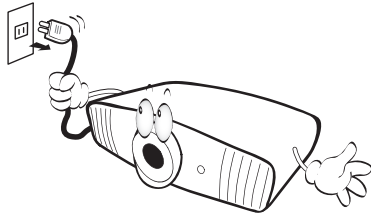
7. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire. To temporarily turn off the lamp, press the **ECO BLANK** button.



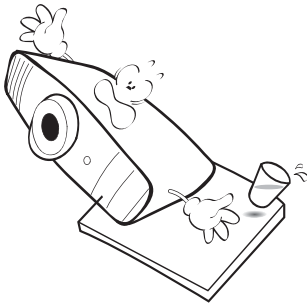
8. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause them to break on rare occasions.



9. Never replace the lamp assembly or any electronic components unless the projector is unplugged.

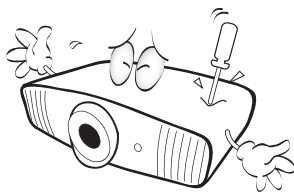


10. Do not place this product on an unstable cart, stand, or table. The product may fall, sustaining serious damage.



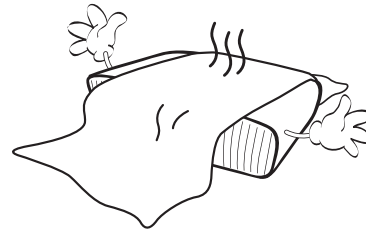
11. Do not attempt to disassemble this projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts. The only user serviceable part is the lamp which has its own removable cover.

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



12. Do not block the ventilation holes.

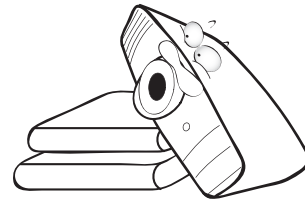
- Do not place this projector on a blanket, bedding or any other soft surface.
- Do not cover this projector with a cloth or any other item.
- Do not place inflammables near the projector.



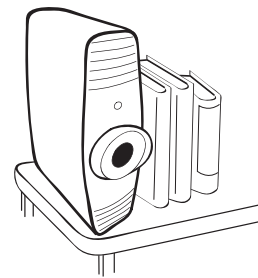
If the ventilation holes are seriously obstructed, overheating inside the projector may result in a fire.

13. Always place the projector on a level, horizontal surface during operation.

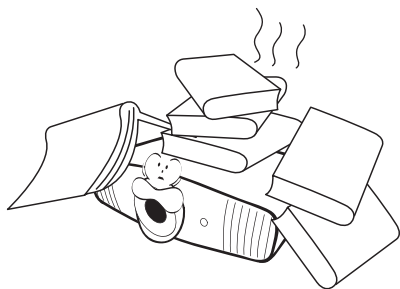
- Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back. Using the projector when it is not fully horizontal may cause a malfunction of, or damage to, the lamp.



14. Do not stand the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage to the projector.

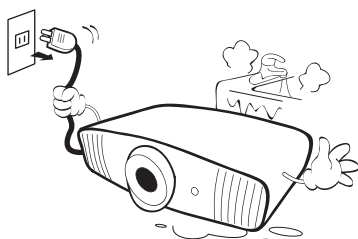


15. Do not step on the projector or place any objects upon it. Besides probable physical damage to the projector, doing so may result in accidents and possible injury.

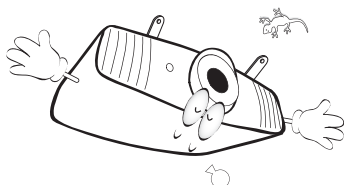


16. When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal phenomenon and not a product defect.

17. Do not place liquids near or on the projector. Liquids spilled into the projector may cause it to fail. If the projector does become wet, disconnect it from the power supply's power outlet and call BenQ to have the projector serviced.



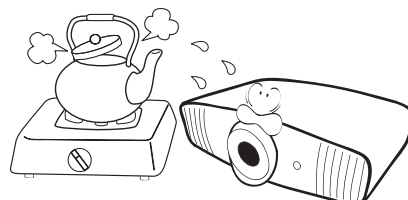
18. This product is capable of displaying inverted images for ceiling mount installation.



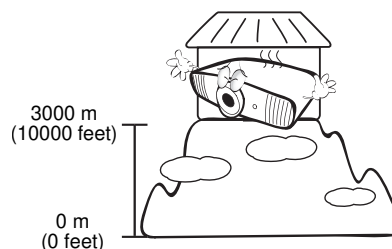
19. This apparatus must be earthed.

20. Do not place this 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 rolled up.
- Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shorten the projector's life span and darken the image.



- Locations near fire alarms
- Locations with an ambient temperature above 40°C / 104°F
- Locations where the altitudes are higher than 3000 m (10000 feet).



Risk Group 2

1. According to the classification of photobiological safety of lamps and lamp systems, this product is Risk Group 2, IEC 62471-5:2015.
2. Possibly hazardous optical radiation emitted from this product.
3. Do not stare at operating lamp. May be harmful to the eyes.
4. As with any bright source, do not stare into the direct beam.



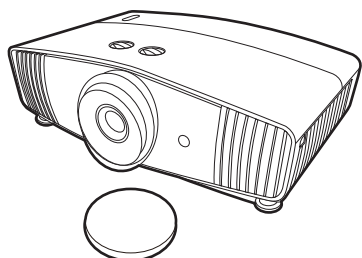
Hg - Lamp contains mercury. Manage in accordance with local disposal laws. See www.lamprecycle.org.

Introduction

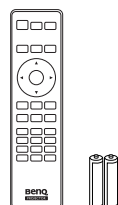
Shipping contents

Carefully unpack and verify that you have all of the items shown below. If any of these items are missing, please contact your place of purchase.

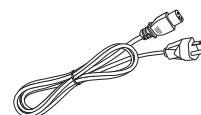
Standard accessories



Projector



Remote control with batteries



Power cord



Installation guide



User manual CD



Warranty card*



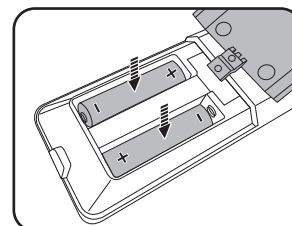
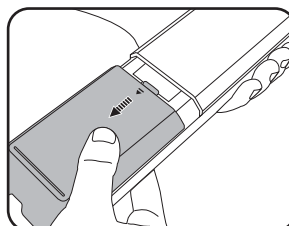
- The supplied accessories will be suitable for your region, and may differ from those illustrated.
- *The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

Optional accessories

1. Spare lamp kit
2. Ceiling mount kit
3. BenQ WDP02
4. BenQ 3D glasses

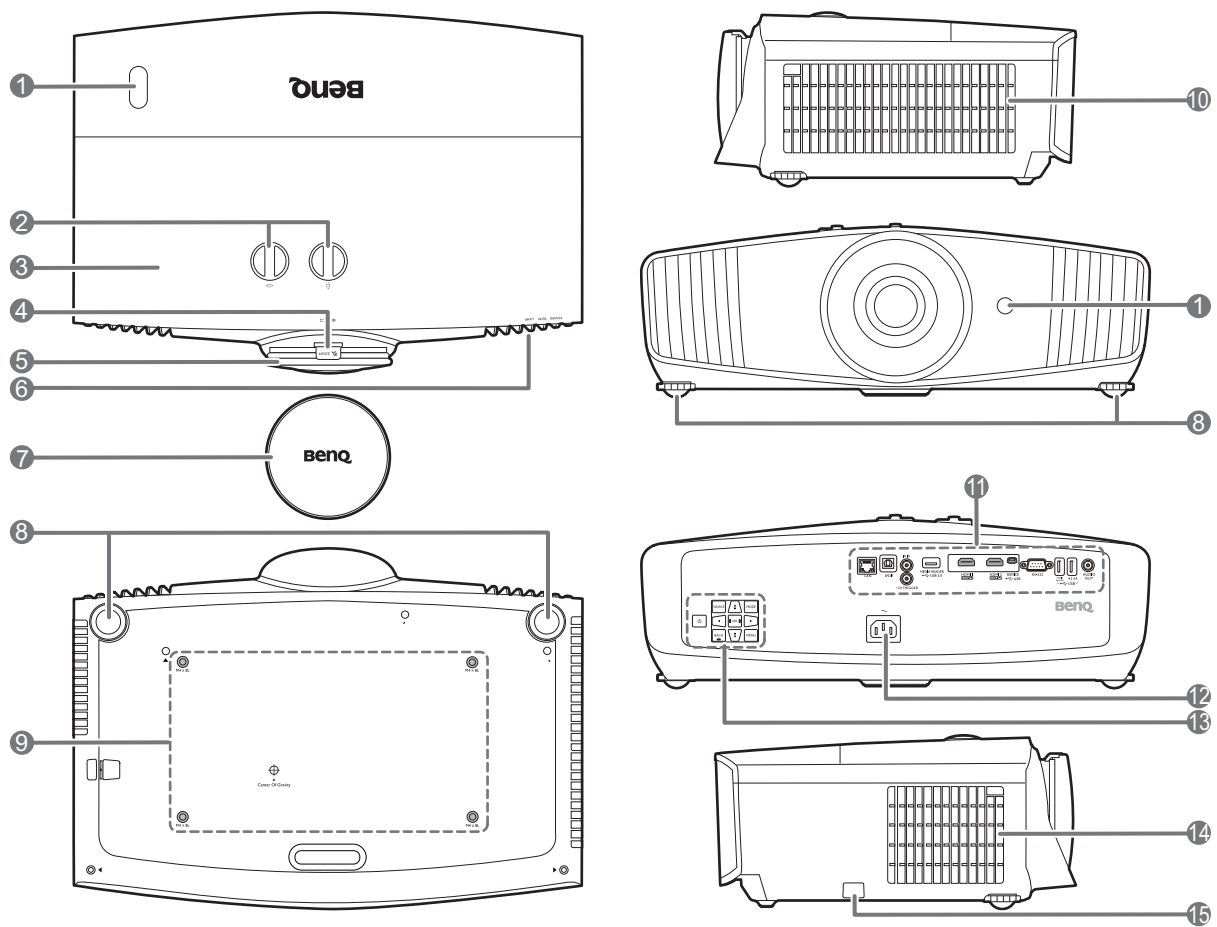
Replacing the remote control batteries

1. Press and slide off the battery cover, as illustrated.
2. Remove the old batteries (if applicable) and install two AAA batteries. Make sure that the positive and negative ends are positioned correctly, as illustrated.
3. Slide the battery cover in until it clicks into place.



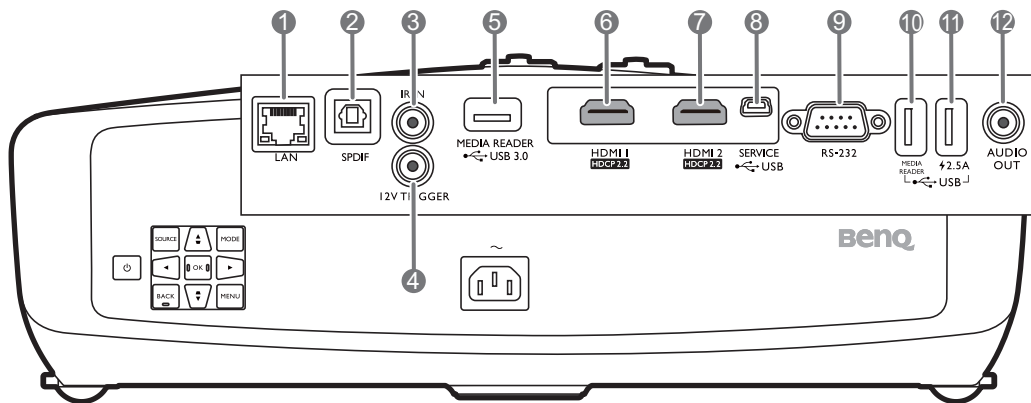
- Avoid leaving the remote control and batteries in an excessive heat or humid environment like the kitchen, bathroom, sauna, sunroom or in a closed car.
- Replace only with the same or equivalent type recommended by the battery manufacturer.
- Dispose of the used batteries according to the manufacturer's 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 dead 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.

Projector exterior view



- | | |
|--|---|
| 1. IR remote sensor | 8. Adjuster feet |
| 2. Lens shift adjustment knobs
(◀◻▶ Left/Right, ◻▲ Up/Down) | 9. Ceiling mount holes |
| 3. Lamp cover | 10. Vent (air inlet) |
| 4. Zoom ring | 11. Connector panel
See Terminals on page 9 . |
| 5. Focus ring | 12. AC power jack |
| 6. POWER indicator light/ TEMP erature warning light/ LAMP indicator light
See Indicators on page 44 . | 13. External control panel
See Controls and functions on page 10 . |
| 7. Lens cover | 14. Vent (air exhaust) |
| | 15. Anti-theft security bar |

Terminals



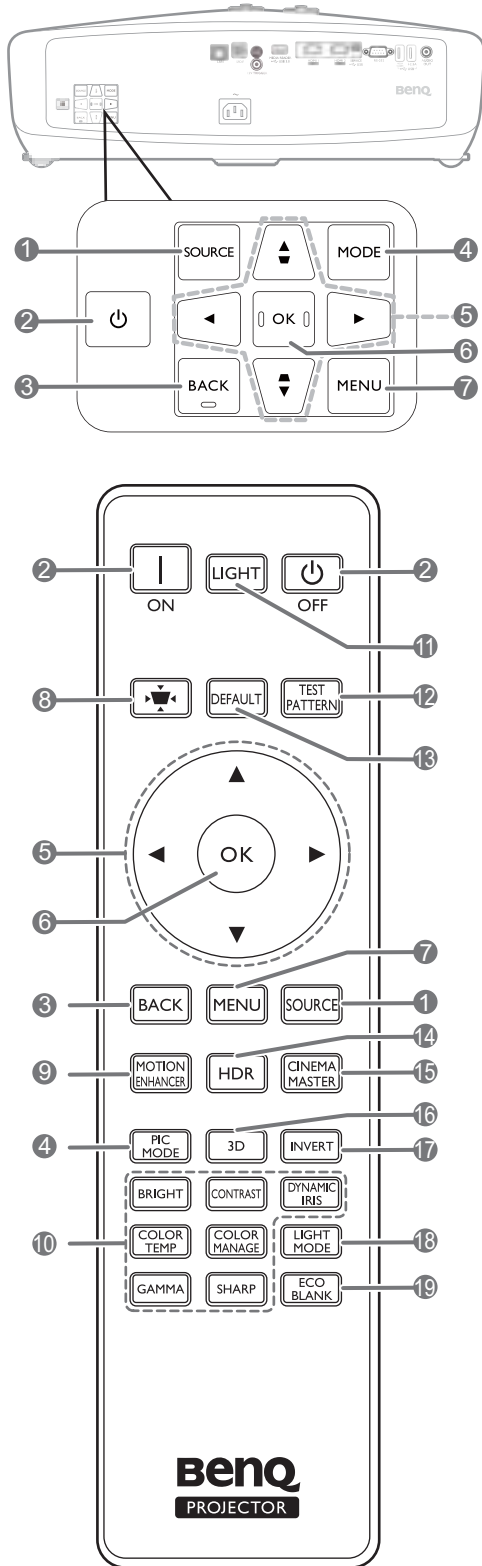
1. RJ-45 LAN input jack (10/100M)
2. SPDIF audio output port
3. IR-IN jack
For use with an IR extender cable to ensure better signal reception from the remote control.
4. 12V DC output terminal
Triggers external devices such as an electric screen or light control, etc.
5. USB 3.0 Type-A port (MEDIA READER)
Connects to a USB flash drive for reading multimedia files. See [Presenting from a Media Reader on page 23](#).
6. HDMI input port (Version 2.0b)
7. HDMI input port (Version 2.0b)
8. USB Mini-B port (for firmware upgrades)
9. RS-232 control port
10. USB 2.0 Type-A port (MEDIA READER)
Connects to a USB flash drive for reading multimedia files. See [Presenting from a Media Reader on page 23](#).
11. USB 2.0 Type-A port (2.5 A power supply)
12. Audio output port

Controls and functions

Projector & Remote control



All the key presses described in this document are available on the remote control or projector.



1. SOURCE

Displays the source selection bar.

2. POWER

Toggles the projector between standby mode and on.

ON / **Off**

Toggles the projector between standby mode and on.

3. BACK

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

4. MODE, PIC MODE

Selects an available picture setup mode when the projector detects a valid signal.

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.

Keystone keys (▲/◻, ▼/◻)

Display the keystone correction page.

6. OK

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

7. MENU

Turns on the On-Screen Display (OSD) menu.

8. Keystone correction key

Displays the Keystone correction menu.

9. MOTION ENHANCER

Displays the **Motion Enhancer 4K** menu.

10. Picture quality adjustment keys (**BRIGHT**, **COLOR TEMP**, **GAMMA**, **CONTRAST**, **COLOR MANAGE**, **SHARP**, **DYNAMIC IRIS**)

Display the menus for adjustments of the appropriate picture quality values.

11. 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.

12. TEST PATTERN

Displays the test pattern.

13. DEFAULT

Resets the current function to its default factory setting.

14. HDR

Displays the **HDR** menu.

15. CINEMAMASTER

Displays the **CinemaMaster** menu.

See [CinemaMaster on page 31](#).

16. 3D

Displays the **3D** menu.

17. INVERT

When your 3D image is distorted, enable this function to switch between the image for the left eye and the right eye for more comfortable 3D viewing experience.

18. LIGHT MODE

Selects a suitable lamp power from among the provided modes.

19. ECO BLANK

Used to hide the screen picture.



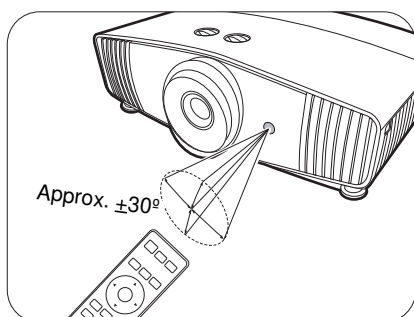
Do not block the projection lens from projecting as this could cause the blocking object to become heated and deformed or even cause a fire.

Remote control effective range

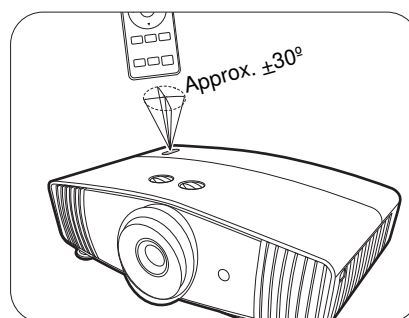
The remote control must be held at an angle within 30 degrees perpendicular to the projector's IR remote control sensor(s) to function correctly. The distance between the remote control and the sensor(s) should not exceed 8 meters (~ 26 feet).

Make sure that there are no obstacles between the remote control and the IR sensor(s) on the projector that might obstruct the infra-red beam.

- Operating the projector from the front



- Operating the projector from the top



Positioning your projector

Choosing a location

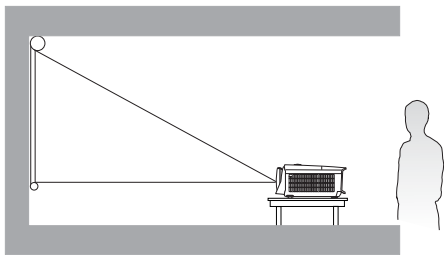
Before choosing an installation location for your projector, take the following factors into consideration:

- 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.

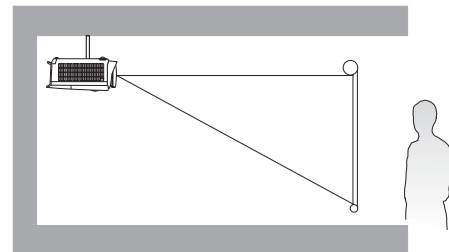
1. Front

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



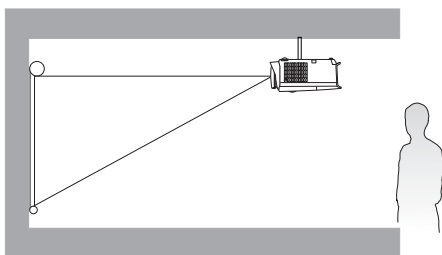
2. Rear Ceiling

Select this location with the projector suspended upside-down from the ceiling behind the screen. Note that a special rear projection screen and the BenQ Projector Ceiling Mount Kit are required for this installation location.



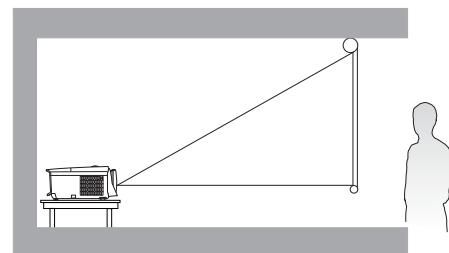
3. Front Ceiling

Select this location with the projector suspended upside-down from the ceiling in front of the screen. Purchase the BenQ Projector Ceiling Mount Kit from your dealer to mount your projector on the ceiling.



4. Rear

Select this location with the projector placed on the table behind the screen. Note that a special rear projection screen is required.



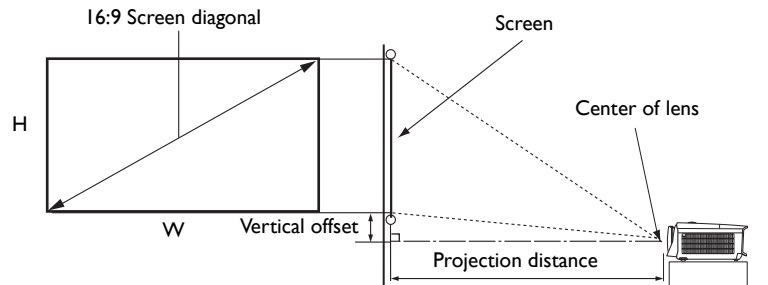
After turning on the projector, go to **INSTALLATION > Projector Position** and press ◀/▶ to select a setting.

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.

Projection dimensions

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



Screen size				Distance from screen (mm)			Vertical offset (Lowest/Highest lens position) (mm)
Diagonal		H (mm)	W (mm)	Min length	Average	Max length	
Inch	mm			(max. zoom)		(min. zoom)	
60	1524	747	1328	1800	2348	2896	75
70	1778	872	1550	2100	2739	3378	87
80	2032	996	1771	2400	3130	3861	100
90	2286	1121	1992	2700	3522	4343	112
100	2540	1245	2214	3000	3913	4826	125
110	2794	1370	2435	3300	4304	5309	137
120	3048	1494	2657	3600	4696	5791	149
130	3302	1619	2878	3900	5087	6274	162
140	3556	1743	3099	4200	5478	6757	174
150	3810	1868	3321	4500	5870	7239	187
160	4064	1992	3542	4800	6261	7722	199
170	4318	2117	3763	5100	6652	8204	212
180	4572	2241	3985	5400	7043	8687	224
190	4826	2366	4206	5700	7435	9170	237
200	5080	2491	4428	6000	7826	9652	249

For example, if you are using a 120-inch screen, the recommended projection distance is 4696 mm.

If your measured projection distance is 500 cm, the closest match in the "Distance from screen (mm)" column is 5087 mm. Looking across this row shows that a 130" (about 3.3 m) screen is required.



All measurements are approximate and may vary from the actual sizes.

BenQ recommends that if you intend to permanently install the projector, you should physically test the projection size and distance using the actual projector in situ before you permanently install it, so as to make allowance for this projector's optical characteristics. This will help you determine the exact mounting position so that it best suits your installation location.

Mounting the projector

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

If you use a non-BenQ brand projector mounting kit, there is a safety risk that the projector may fall down due to an improper attachment through the use of the wrong gauge or length screws.

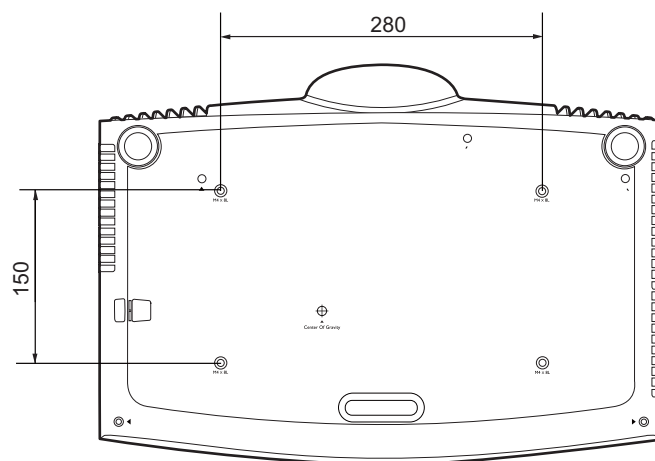
Before mounting the projector

- Purchase a BenQ projector mounting kit from the place you purchased your BenQ projector.
- BenQ recommends that you also use a security cable to secure both the base of the mounting bracket and the security bar on the projector. This will perform the secondary role of restraining the projector should its attachment to the mounting bracket become loose.
- Ask your dealer to install the projector for you. Installing the projector on your own may cause it to fall and result in injury.
- Take necessary procedures to prevent the projector from falling off such as during an earthquake.
- The warranty doesn't cover any product damage caused by mounting the projector with a non-BenQ brand projector mounting kit.
- Consider the surrounding temperature where the projector is ceiling mounted. If a heater is used, the temperature around the ceiling may be higher than expected.
- Read the user manual for the mounting kit about the range of torque. Tightening with torque exceeding the recommended range may cause damage to the projector and subsequently falling off.
- Make sure the power outlet is at an accessible height so that you can easily shut down the projector.

Ceiling mount installation diagram

Ceiling mount screw: M4

(Max L = 25 mm; Min L = 20 mm)



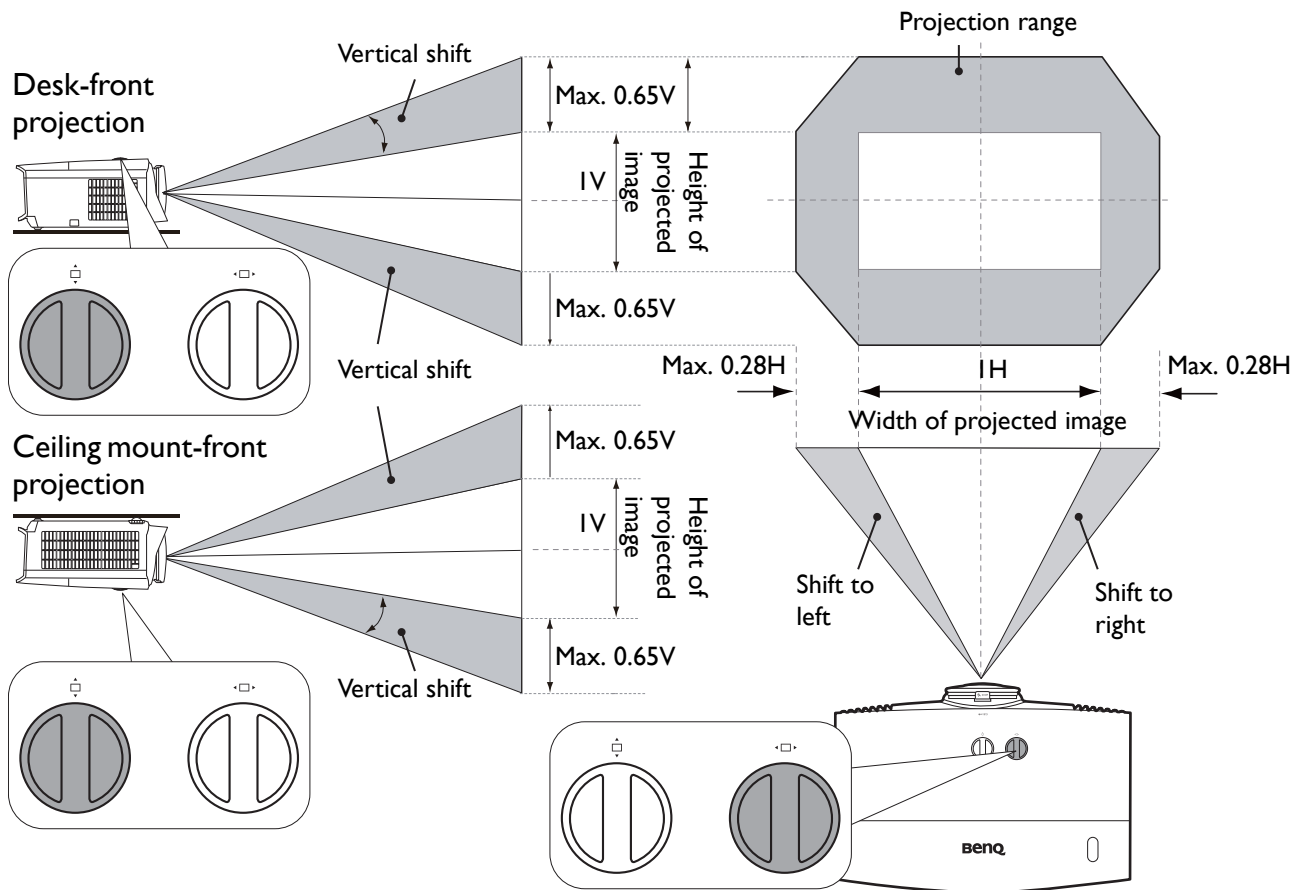
Unit: mm

Adjusting the projector position

Shifting the projection lens

The lens shift control provides flexibility for installing your projector. It allows the projector to be positioned off the center of the screen.

The lens shift is expressed as a percentage of the projected image height or width. You can turn the knobs on the projector to shift the projection lens in any direction within the allowable range depending on your desired image position.



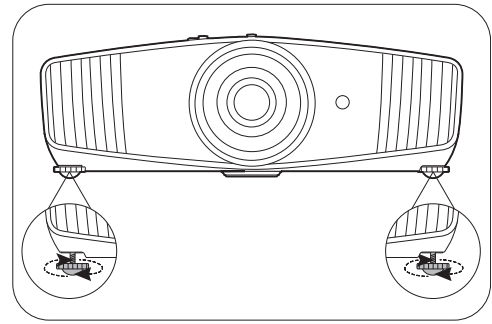
- Lens shift adjustment will not result in a degraded picture quality.
- Please stop turning the adjustment knob when you hear a clicking sound indicating that the knob has reached its limit. Over-turning the knob may cause damage.

Adjusting the projected image

Adjusting the projection angle

If the projector is not placed on a flat surface or the screen and the projector are not perpendicular to each other, the projected image becomes trapezoidal. You can screw the adjuster feet to fine-tune the horizontal angle.

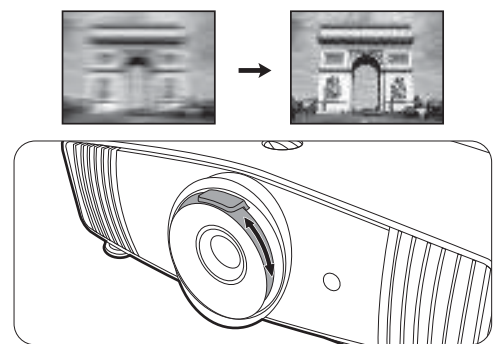
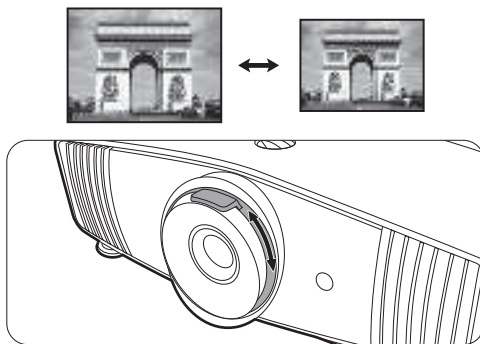
To retract the feet, screw the adjuster feet in a reverse direction.



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

1. Adjust the projected image to the size that you need using the zoom ring.
2. Sharpen the image by rotating the focus ring.

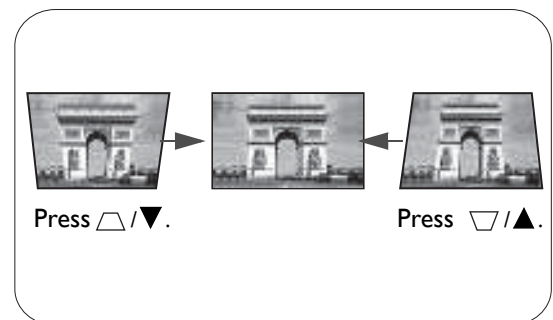


Correcting keystone

Keystoning refers to the situation where the projected image becomes a trapezoid due to angled projection.

To manually correct this:

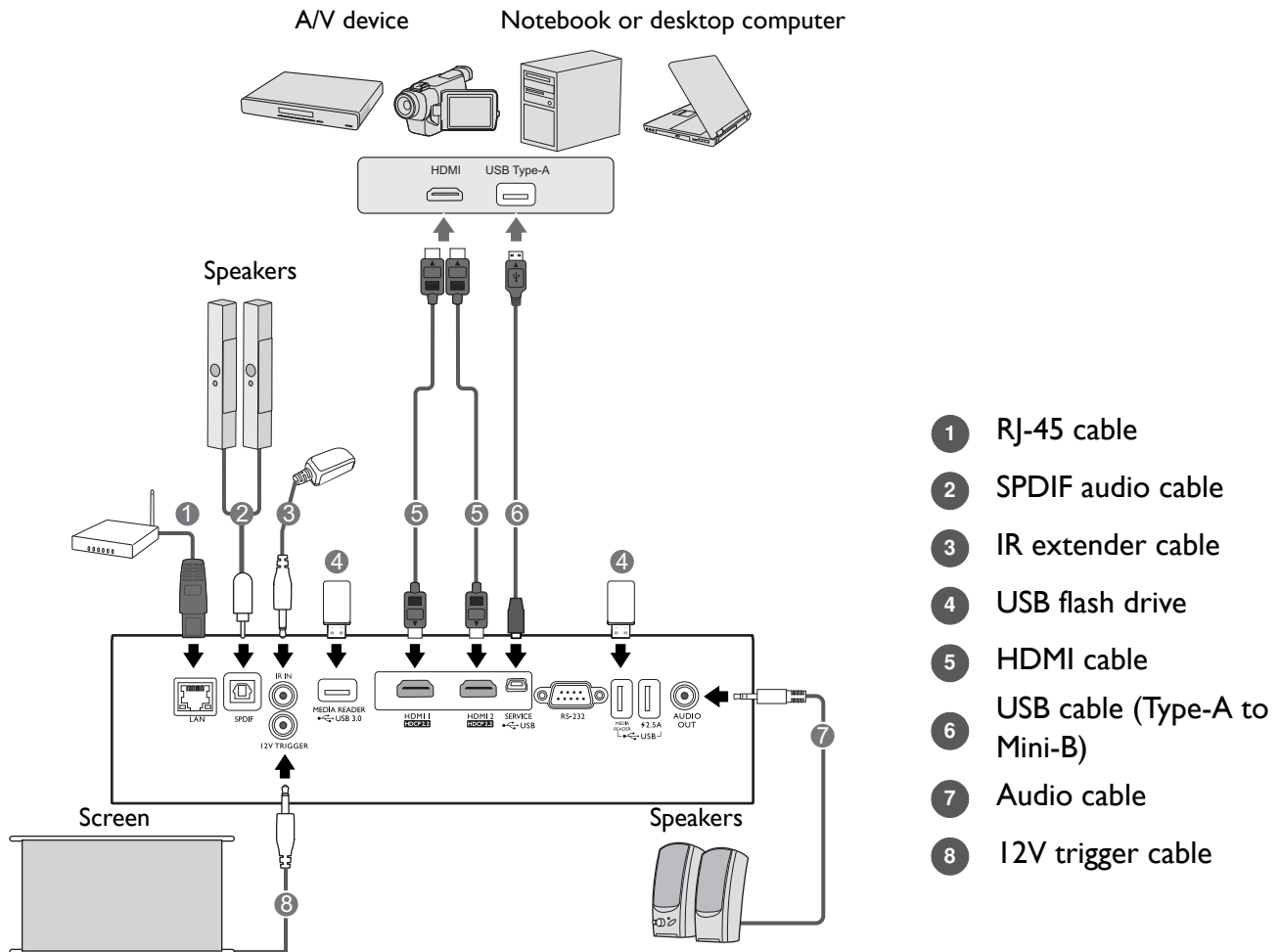
1. Press $\triangle/\nabla$ on the projector or $\blacktriangledown/\blacktriangle/\blacktriangledown$ on the remote control.
2. After the **Keystone** correction page appears, press $\triangle/\nabla$ to correct keystone at the top of the image. Press $\nabla/\blacktriangle$ to correct keystone at the bottom of the image. When done, press **BACK** to save and exit.
3. To reset the **Keystone** correction page, press **OK** for 2 seconds.



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. Ensure the cables are firmly inserted.



- In the connections above, some cables may not be included with the projector (see [Shipping contents on page 7](#)). They are commercially available from electronics stores.
- The connection illustrations are for reference only. The rear connecting jacks available on the projector vary with each projector model.
- Many notebooks do not turn on their external video ports when connected to a projector. Usually a key combo like FN + function key with a monitor symbol turns the external display on/off. Press FN and the labeled function key simultaneously. Refer to your notebook's documentation to find your notebook's key combination.
- If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.

Step 4:

Specify **Auto Source**.

Select **On** if you want the projector to always search for available signals automatically when the projector is turned on.

Now you've completed the initial setup.



-
4. If you are prompted for a password, press the arrow keys to enter a 6-digit password. See [Utilizing the password function on page 21](#).
 5. Switch all of the connected equipment on.
 6. The projector will search for input signals. The current input signal being scanned appears. If the projector does not detect a valid signal, the message “No Signal” will appear until an input signal is found.

You can also press **SOURCE** to select your desired input signal. See [Switching input signal on page 22](#).



- Please use the original accessories (e.g. power cord) to avoid possible dangers such as electric shock and fire.
- If the projector is still hot from previous activity, it will run the cooling fan for approximately 90 seconds before energizing the lamp.



-
- The Setup Wizard screenshots are for reference only and may differ from the actual design.
 - If the frequency/resolution of the input signal exceeds the projector's operating range, you will see the message “Out of Range” displayed on the background screen. Please change to an input signal which is compatible with the projector's resolution or set the input signal to a lower setting. See [Timing chart on page 48](#).
 - If no signal is detected for 3 minutes, the projector automatically enters saving mode.

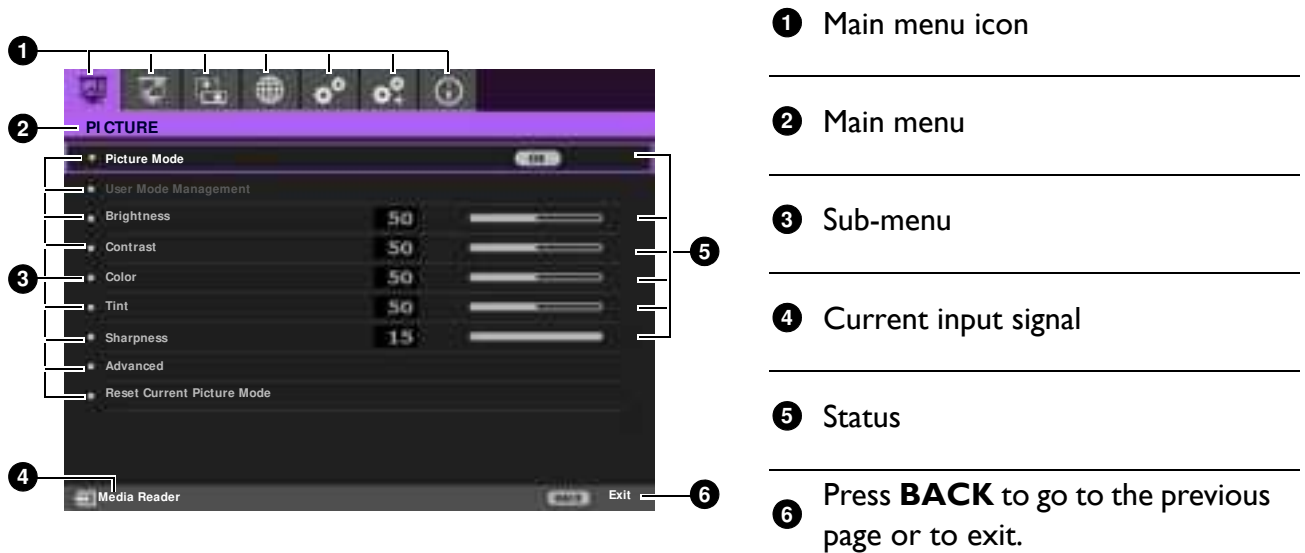
Using the menus

The projector is equipped with On-Screen Display (OSD) menus for making various adjustments and settings.



The OSD screenshots below are for reference only, and may differ from the actual design.

Below is the overview of the OSD menu.



To access the OSD menu, press **MENU** on the projector or remote control.

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

Securing the projector

Using a security cable lock

The projector has to be installed in a safe place to prevent theft. Otherwise, purchase a security cable to secure the projector. A security bar is located on the right side of the projector. See item 15 on [page 8](#). Insert a security cable to the opening of the security bar and secure it to a nearby fixture or heavy furniture.

Utilizing the password function

Setting a password

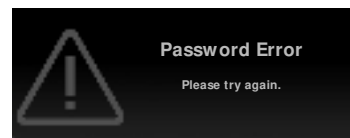
1. Go to **SYSTEM SETUP: ADVANCED > Password**. Press **OK**. The **PASSWORD** page appears.
2. Highlight **Change Password** and press **OK**.
3. The four arrow keys (▲, ►, ▼, ◀) respectively represent 4 digits (1, 2, 3, 4). According to the password you desire to set, press the arrow keys to enter six digits for the password.
4. Confirm the new password by re-entering the new password.
Once the password is set, the OSD menu returns to the **PASSWORD** page.
5. To activate the **Power On Lock** function, press ▲/▼ to highlight **Power On Lock** and press ◀/▶ to select **On**. Input the password again.



- The digits being input will be displayed as asterisks on-screen. Make a note of your selected password and keep it in a safe place in advance or right after the password is entered so that it is available to you should you ever forget it.
- Once a password has been set and the power on lock is activated, the projector cannot be used unless the correct password is entered every time the projector is started.

If you forget the password

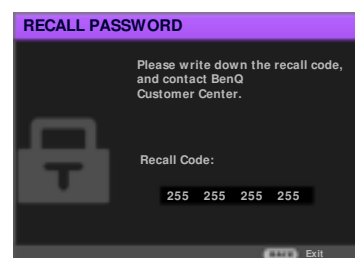
If you enter the wrong password, the password error message will appear, and the **INPUT CURRENT PASSWORD** message follows. If you absolutely do not remember the password, you can use the password recall procedure. See [Entering the password recall procedure on page 21](#).



If you enter an incorrect password 5 times in succession, the projector will automatically shut down in a short time.

Entering the password recall procedure

1. Press and hold **OK** for 3 seconds. 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 BenQ 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.



Changing the password

1. Go to **SYSTEM SETUP: ADVANCED > Password > Change Password**.
2. Press **OK**. The **INPUT CURRENT PASSWORD** message appears.
3. Enter the old password.
 - If the password is correct, another message **INPUT NEW PASSWORD** appears.
 - If the password is incorrect, the password error message will appear, and the message **INPUT CURRENT PASSWORD** appears for your retry. You can press **BACK** to cancel the change or try another password.
4. Enter a new password.
5. Confirm the new password by re-entering the new password.

Disabling the password function

To disable password protection, go to **SYSTEM SETUP: ADVANCED > Password > Power On Lock** and press **◀/▶** to select **Off**. The message **INPUT CURRENT PASSWORD** appears. Enter the current password.

- If the password is correct, the OSD menu returns to the **PASSWORD** page. You will not have to enter the password next time turning on the projector.
- If the password is incorrect, the password error message will appear, and the message **INPUT CURRENT PASSWORD** appears for your retry. You can press **BACK** to cancel the change or try another password.



Though the password function is disabled, you need to keep the old password in hand should you ever need to re-activate the password function by entering the old password.

Switching input signal

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

Be sure the **SYSTEM SETUP: BASIC > Auto Source** menu is **On** if you want the projector to automatically search for the signals.

To select the source:

1. Press **SOURCE**. A source selection bar appears.
2. Press **▲/▼** until your desired signal is selected and press **OK**.

Once detected, the picture from the selected source will appear. If there is multiple equipment connected to the projector, repeat steps 1-2 to search for another signal.



- The brightness level of the projected image will change accordingly when you switch between different input signals.
- For best display picture results, you should select and use an input signal which outputs at the projector's native 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 on page 34](#).

Presenting from a Media Reader

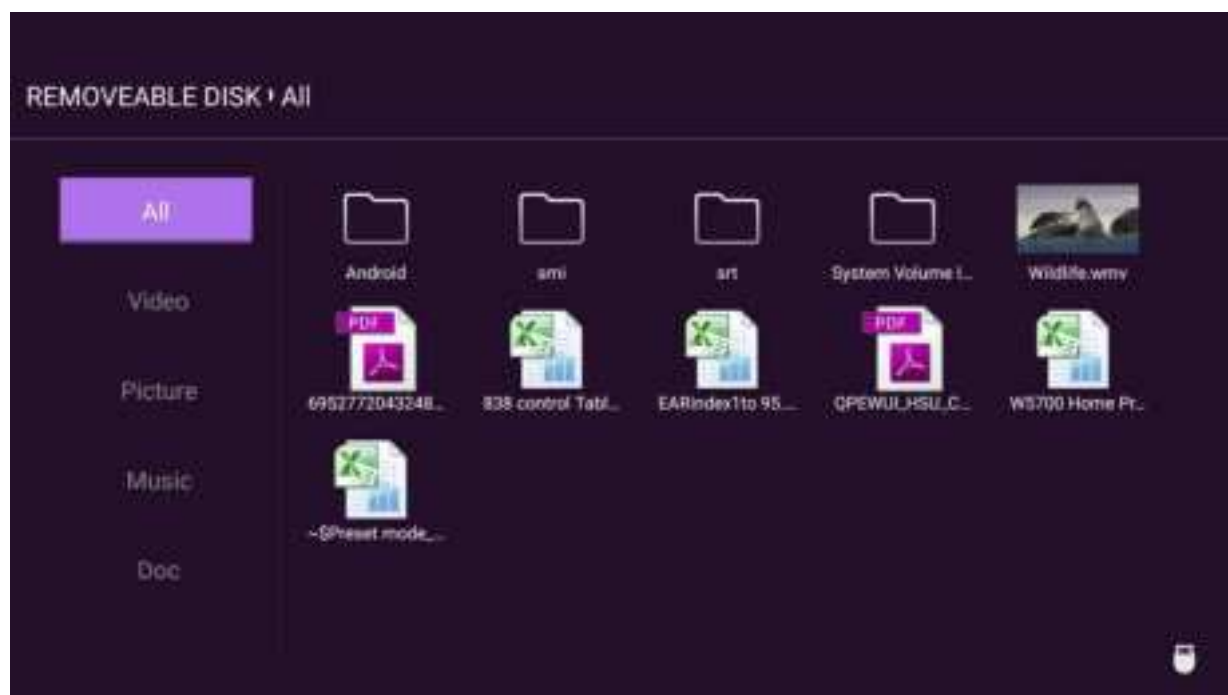
The MEDIA READER (USB) ports on the projector allow you to browse the image and document files stored on a USB flash drive connected to the projector. It can eliminate the need for a computer source.

Supported file formats

Video format	Audio format	Photo format
• MPEG1 • MPEG4 • H.263 • Motion JPEG	• MPEG1/2 Layer1 • MPEG1/2 Layer2 • FLAC	• JPEG Base-line • JPEG Progressive • PNG non-interlace • PNG interlace • BMP

Viewing files

1. Plug a USB flash drive into one of the **MEDIA READER** ports on the back of the projector.
2. Press **SOURCE** and select **Media Reader**. The projector displays the built in media reader main page.
3. Press **▲/▶/▼/◀** to select and press **OK** to enter the sub-folder or display a file.
4. After a file is displayed, press **OK** and **▲/▶/▼/◀** to perform further actions, or press **BACK** to return to the previous page.



- Button functions for viewing video clips

Button	Description
OK	Plays/Pauses the video.
▲/▼	Cycles through the video clips.
◀/▶	Rewinds/Fast-forwards the video.
BACK	Goes back to the thumbnail page.

- Button functions for viewing pictures

Button	Description	
OK	1. Calls out the function menu.	
	2. When the following items are highlighted, press OK to enable their functions.	
		Sets the way to display all the pictures in the same folder by using ▲/▶/▼/◀.
		Rotate the picture in a clockwise direction.
		Enlarges the picture. To restore its original size, press BACK .
		Goes to the previous picture.
		Goes to the next picture.
BACK	Goes back to the thumbnail page.	

- Button functions for playing music

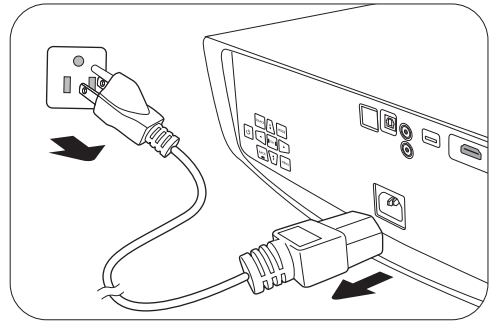
Button	Description
OK	When the following items are highlighted, press OK to enable their functions.
	 Shows the play list. To select a song from the list, use ▲/▼. Press BACK to dismiss the play list.
	 Goes to the previous song.
	 Goes to the next song.
	  Plays/Pauses the music
	   Sets the way how the music is played, eg. Plays, Single Play, Random.
BACK	Goes back to the thumbnail page.

- Button functions for viewing documents

Button	Description
▲/▼	Scrolls up or down the page. When displaying PowerPoint files, follow the on-screen display to set the way to show the pages.

Shutting down the projector

1. Press  and a confirmation message will appear prompting you. If you don't respond in a few seconds, the message will disappear.
2. Press  a second time. The power indicator flashes orange, the projection lamp shuts down, and the fans will continue to run for approximately 90 seconds to cool down the projector.
3. Once the cooling process finishes, the power indicator becomes a steady orange and fans stop. Disconnect the power cord from the power outlet.



- To protect the lamp, the projector will not respond to any commands during the cooling process.
- Avoid turning on the projector immediately after turning it off as excessive heat may shorten lamp life.
- Lamp life results will vary depending on environmental conditions and usage.

Menu operation

Menu system

Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.

The menu items are available when the projector detects at least one valid signal. If there is no equipment connected to the projector or no signal detected, limited menu items are accessible.

Main menu	Submenu		Options
PICTURE	Picture Mode	Bright/Vivid TV/Cinema/D. Cinema/User/ISF Night/ISF Day/Silence/3D/HDR10/HLG	
	User Mode Management	Load Settings From Rename User Mode	
	Brightness	0–100	
	Contrast	0–100	
	Color	0–100	
	Tint	0–100	
	Sharpness	0–15	
	Advanced	Gamma Selection	1.8/2.0/2.1/2.2/2.3/2.4/2.5/2.6/BenQ
		HDR Brightness	-2 – +2
		Color Temperature	Preset/Red Gain/Green Gain/Blue Gain/Red Offset/Green Offset/Blue Offset
		Color Management	Primary Color/Hue/Saturation/Gain
		CinemaMaster	Color Enhancer/Flesh Tone/Pixel Enhancer 4K/Motion Enhancer 4K
		Noise Reduction	Low/Middle/High/Off
		Dynamic Iris	On/Off
		Brilliant Color	On/Off
		Wide Color Gamut	On/Off
		Light Mode	Normal/Economic/SmartEco
	Reset Current Picture Mode	Reset/Cancel	
DISPLAY	Overscan Adjustment	0–3	
	3D	3D Mode	Auto/Frame Packing/Top-Bottom/Side-by-Side/Off
		3D Sync Invert	
	HDR	Auto/Off	
	Silence	On/Off	

INSTALLATION	Projector Position		Front/Front Ceiling/Rear/Rear Ceiling
	Test Pattern		On/Off
	Aspect Ratio		Auto/4:3/16:9
	12V Trigger		On/Off
	High Altitude Mode		On/Off
Network Settings	LAN Settings	Wired LAN	Status/DHCP/IP Address/Subnet Mask/Default Gateway/DNS Server/Apply
		AMX Device Discovery	On/Off
		Network Standby	Enable Network Standby Mode/ Auto Disable Network Standby Mode
SYSTEM SETUP: BASIC	Language		English / Français / Deutsch / Italiano / Español / Русский / 繁體中文 / 简体中文 / 日本語 / 한국어 / Svenska / Nederlands / Türkçe / Čeština / Português / ไทย / Polski / Magyar / Hrvatski / Română / Norsk / Dansk / Български / Suomi / Indonesian / Ελληνικά / العربية / हिन्दी
	Splash Screen		BenQ/Black/Blue
	Auto Off		Disable/5 min/10 min/15 min/20 min/25 min/30 min
	Direct Power On		On/Off
	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	On/Off
	Source Rename		
	Auto Source		On/Off
	SYSTEM SETUP: ADVANCED	Lamp Settings	Reset Lamp Timer
Lamp Timer			
HDMI Settings		HDMI Range	Auto/Full/Limited
		CEC	On/Off
		Power On Link	Off/From Device
		Power Off Link	Off/From Projector
Password		Change Password	
		Power On Lock	On/Off
Key Lock		On/Off	
LED Indicator		On/Off	
Reset All Settings		Reset/Cancel	
ISF		(input password)	

INFORMATION	Source
	Picture Mode
	Resolution
	Color System
	Color Gamut
	Light Usage Time
	3D Format
	Firmware Version
	Service Code

PICTURE menu

Picture Mode	The projector is preset with several predefined picture modes so that you can choose one to suit your operating environment and input signal picture type. • Bright: 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. • Vivid TV: With well-saturated color, fine-tuned sharpness, and a higher brightness level, this mode is suitable for playing movies in rooms where there is a small amount of ambient light, e.g. your living room. • Cinema: Providing accurate color of 100% Rec. 709 and deepest contrast at lower brightness level, this mode is suitable for playing 1080P SDR movies in an environment with a bit of ambient light, like in a living room. • D. Cinema: In accordance with 100% DCI-P3 color gamut, this mode provides deepest contrast at lower brightness level. It is suitable for playing 4K SDR movies in a totally dark environment, as if in a commercial cinema. • User: Recalls the settings customized based on the current available picture modes. See User Mode Management on page 29. • Silence: Minimizes the acoustic noise. It is suitable for the need of watching movies that requires an ultra-quiet environment so that you won't be disturbed by the noise of the projector. This mode is only available when the DISPLAY > Silence menu is set at On. • 3D: Optimized to bring up 3D effects when watching 3D contents.
	 This mode is only available when 3D function is enabled. • HDR10/HLG: Delivers High Dynamic Range effects with higher contrasts of brightness and colors. This mode is best for watching 4K Blu-ray HDR10 or HLG streaming contents with 100% Rec. 709 color gamut. Picture Mode will be switched to HDR10/HLG automatically while detecting metadata or EOTF info from 4K Blu-ray HDR10 or HLG streaming contents. • This mode is only available when DISPLAY > HDR is set at Auto, and HDR content is detected. • Color gamut can be enlarged to 100% DCI-P3 in the HDR10/HLG mode for more accurate color reproduction. Turn on Wide Color Gamut under the PICTURE > Advanced menu.

User Mode Management	There is one user-definable mode if the current available picture modes are not suitable for your need. You can use one of the picture modes (except the User) as a starting point and customize the settings. • Load Settings From 1. Go to PICTURE > Picture Mode. 2. Press ◀/▶ to select User. 3. Press ▼ to highlight User Mode Management, and press OK. The User Mode Management page is displayed. 4. Select Load Settings From and press OK. 5. Press ▼/▲ to select a picture mode that is closest to your need. 6. Press OK and BACK to return to the PICTURE menu. 7. Press ▼ to select the sub-menu items you want to change and adjust the values with ◀/▶. The adjustments define the selected user mode. • Rename User Mode Select to rename the customized picture mode (User). The new name can be up to 9 characters including English letters (A-Z, a-z), digits (0-9), and space (_). 1. Go to PICTURE > Picture Mode. 2. Press ◀/▶ to select User. 3. Press ▼ to highlight User Mode Management, and press OK. The User Mode Management page is displayed. 4. Press ▼ to highlight Rename User Mode and press OK. The Rename User Mode page is displayed. 5. Use ▲/▶ / ▼/◀, and OK to set desired characters. 6. When done, press BACK to save the changes and exit.
Brightness	The higher the value, the brighter the image. Adjust this control so the black areas of the image appear just as black and that detail in the dark areas is visible.
Contrast	The higher the value, the greater the contrast. Use this to set the peak white level after you have previously adjusted the Brightness setting to suit your selected input and viewing environment.
Color	Lower setting produces less saturated colors. If the setting is too high, colors on the image will be overpowering, which makes the image unrealistic.
Tint	The higher the value, the more greenish the picture becomes. The lower the value, the more reddish the picture becomes.
Sharpness	The higher the value, the sharper the picture becomes.

Advanced

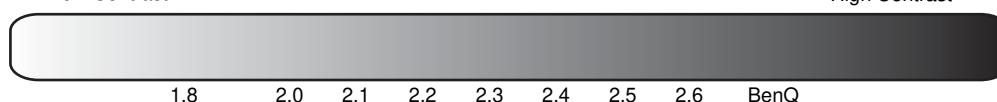
• Gamma Selection

Gamma refers to the relationship between input source and picture brightness.

- **1.8/2.0/2.1/BenQ:** Select these values according to your preference.
- **2.2/2.3:** Increases the average brightness of the picture. Best for a lit environment, meeting room or family room.
- **2.4/2.5:** Best for viewing movies in a dark environment.
- **2.6:** Best for viewing movies which are mostly composed of dark scenes.

High Brightness
Low Contrast

Low Brightness
High Contrast



• HDR Brightness

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.

• Color Temperature

There are several preset color temperature settings available. The available settings may vary according to the signal type selected.

- **Normal:** Maintains normal colorings for white.
- **Cool:** Makes images appear bluish white.
- **Lamp Native:** With the lamp's original color temperature and higher brightness. This setting is suitable for environments where high brightness is required, such as projecting pictures in well lit rooms.
- **Warm:** Makes images appear reddish white.

You can also set a preferred color temperature by adjusting the following options.

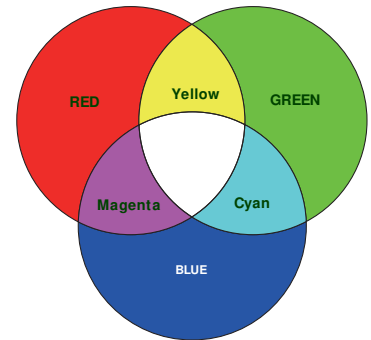
- **Red Gain/Green Gain/Blue Gain:** Adjusts the contrast levels of Red, Green, and Blue.
- **Red Offset/Green Offset/Blue Offset:** Adjusts the brightness levels of Red, Green, and Blue.

Advanced (Continued)

• Color Management

The Color Management provides six sets (RGBCMY) of colors to be adjusted. When you select each color, you can independently adjust its range and saturation according to your preference.

- **Primary Color:** Selects a color from among Red, Yellow, Green, Cyan, Blue, or Magenta.
- **Hue:** Increase in the range will include colors consisted of more proportions of its two adjacent colors. Please refer to the illustration for how the colors relate to each other. For example, if you select Red and set its range at 0, only pure red in the projected picture will be selected. Increasing its range will include red close to yellow and red close to magenta.
- **Saturation:** Adjusts the values to your preference. Every adjustment made will reflect to the image immediately. For example, if you select Red and set its value at 0, only the saturation of pure red will be affected.
- **Gain:** Adjusts the values to your preference. The contrast level of the primary color you select will be affected. Every adjustment made will reflect to the image immediately.



Saturation 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.

• CinemaMaster

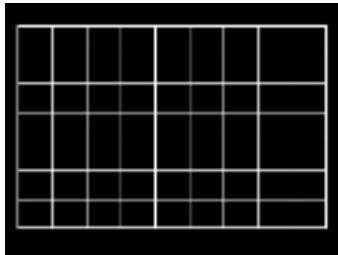
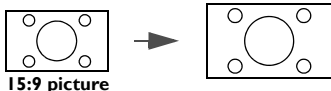
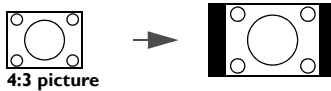
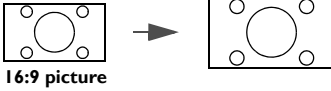
- **Color Enhancer:** Allows you to fine-tune the saturation of colors with larger flexibility. It modulates complex color algorithms to flawlessly render saturated colors, fine gradients, intermediate hues and subtle pigments.
- **Flesh Tone:** Provides a smart adjustment of hue only for calibrating 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.
- **Pixel Enhancer 4K:** 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 refining surface details for true-to-life images that pop off the screen. Users can adjust levels of sharpness and detail enhancement for optimal viewing.
- **Motion Enhancer 4K:** To enhance picture smoothness by motion estimation/motion compensation.
- **Noise Reduction:** Reduces electrical image noise caused by different media players.

Advanced (Continued)	• Dynamic Iris: Automatically changes the black level of the projected pictures to enhance the effect of contrast ratio. When the projector is starting up, the Dynamic Iris will be calibrated for 3-15 seconds. You will hear the sound of the motor operation during this period of time. When the projector is on, the Dynamic Iris will adjust according to the scenes from the videos. The motor operation still produces a small amount of sound. You can mute the sound by selecting Off. • Brilliant Color: This feature utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing truer, more vibrant colors in picture. It enables a greater than 50% brightness increase in mid-tone images, which are common in video and natural scenes, so the projector reproduces images in realistic and true colors. If you prefer images with that quality, select On. When Off is selected, the Color Temperature function is not available. • Wide Color Gamut: Color Gamut refers to the range of colors that can potentially be displayed by a device. There are some standards to define difference levels of color gamuts for display devices, such as CIE 1976, sRGB, Adobe RGB, NTSC, etc. This function is only selectable when HDRI0 or HLG is selected. With this projector, selecting On will automatically apply the most suitable color gamut to the image source. It is automatically turned on when PICTURE > Picture Mode > D. Cinema is selected. Under the rest settings, this menu is grayed out. • Light Mode: Selects a suitable lamp power from among the provided modes. See Extending lamp life on page 39.
Reset Current Picture Mode	Returns all of the adjustments you've made for the selected Picture Mode (including the preset mode, User) to the factory preset values. 1. Press OK. The confirmation message is displayed. 2. Use ◀/▶ to select Reset and press OK. The current picture mode returns to the factory preset settings.

DISPLAY menu

Overscan Adjustment	Conceals the poor picture quality in the four edges. 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.
3D	This projector supports playing three-dimensional (3D) content transferred through your 3D-compatible video devices and contents, such as PlayStation consoles (with 3D game discs), 3D Blu-ray players (with 3D Blu-ray discs), and so on. After you have connected the 3D video devices to the projector, wear the BenQ 3D glasses and make sure the power is on to view 3D contents. When watching 3D contents: • The image may seem misplaced; however, this is not a product malfunction. • Take appropriate breaks when watching 3D contents. • Stop watching 3D contents if you feel fatigue or discomfort. • Keep a distance from the screen of about three times the effective height of the screen. • Children and people with a history of oversensitivity to light, heart problems, or any other existing medical conditions should be refrained from watching 3D contents. • The image may seem reddish, greenish, or bluish without wearing 3D glasses. However, you will not notice any color bias when watching 3D contents with 3D glasses. • The 4K source will not be displayed. • 3D Mode The default setting is Auto and the projector automatically chooses an appropriate 3D format when detecting 3D contents. If the projector cannot recognize the 3D format, press OK to choose a 3D mode from among Frame Packing, Top-Bottom, and Side-by-Side. When this function is enabled: • The brightness level of the projected image decreases. • The Picture Mode cannot be adjusted. • 3D Sync Invert When your 3D image is distorted, enable this function to switch between the image for the left eye and the right eye for more comfortable 3D viewing experience.
HDR	The projector supports HDR imaging sources. It can automatically detect the dynamic range of the source, and optimize settings to reproduce contents under wider dynamic range. Meanwhile, the Picture Mode cannot be adjusted after switching to HDR.
Silence	When this function is enabled: • The acoustic noise will be minimized. • The display resolution will be set at 1920 × 1080. • The PICTURE > Picture Mode menu will be automatically changed to Silence and grayed out.

INSTALLATION menu

Projector Position	The projector can be installed on a ceiling or behind a screen, or with one or more mirrors. See Choosing a location on page 12 .
Test Pattern	Adjusts the image size and focus and check that the projected image is free from distortion. 
Aspect Ratio	There are several options to set the image's aspect ratio depending on your input signal source. • Auto: Scales an image proportionally to fit the projector's native resolution in its horizontal or vertical width. • 4:3: Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. • 16:9: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio.   
12V Trigger	If On is selected, the projector will send electronic signal out when it is turned on.
High Altitude Mode	We recommend you use the High Altitude Mode 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.  Do not use the High Altitude Mode if your altitude is between 0 m and 1500 m and ambient temperature is between 0°C and 35°C. The projector will be over cooled, if you turn the mode on under such a condition.

Network Settings menu

LAN Settings	• Wired LAN: See BenQ Network Projector Operation Guide. • AMX Device Discovery: When this function is On, the projector can be detected by AMX controller. • Network Standby: This menu provides basic and advanced settings for network control when the projector is in standby mode. • Enable Network Standby Mode: Selecting On will keep the projector at a lower power consumption than it is on while the projector is available for network control. If selecting Off, the projector disconnects from network. • Auto Disable Network Standby Mode: If Enable Network Standby Mode is set at On, you can decide a time period in this menu to disable the network standby function when there is no network activity occurs. Selecting 20 min/1 hr/3 hr/6 hr sets the projector to switch to non-network standby status after that period of time. Selecting Never will always keep the projector connected for network control.
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SYSTEM SETUP: BASIC menu

Language	Sets the language for the On-Screen Display (OSD) menus.
Splash Screen	Allows you to select which logo screen will be displayed during projector start-up.
Auto Off	Allows the projector to turn off automatically if no input signal is detected after a set period of time to prevent unnecessary waste of lamp life.
Direct Power On	Allows the projector to turn on automatically once the power is fed through the power cord.
Menu Settings	• Menu Position: Sets the On-Screen Display (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.
Source Rename	Renames the current input source to your desired name. On the Source Rename page, use ▲/▼/◀/▶, and OK to set the desired characters for the connected source item. When done, press BACK to save the changes and exit.
Auto Source	Allows the projector to automatically search for a signal.

SYSTEM SETUP: ADVANCED menu

Lamp Settings	• Reset Lamp Timer: See Resetting the lamp timer on page 43. • Lamp Timer: See Getting to know the lamp hour on page 39.				
HDMI Settings	• HDMI Range Selects a suitable RGB color range to correct the color accuracy. • Auto: Automatically selects a suitable color range for the incoming HDMI signal. • Full: Utilizes the Full range RGB 0-255. • Limited: Utilizes the Limited range RGB 16-235. • CEC When you connect an HDMI CEC-compatible device to your projector with an HDMI cable, turning on the HDMI CEC compatible device automatically turns on the projector, while turning off the projector automatically turns off the HDMI CEC compatible device. • Power On Link/Power Off Link When you connect an HDMI CEC-compatible device to your projector with an HDMI cable, you can set the behavior of powering on/off between the device and the projector. <table border="1"> <tr> <td>Power On Link > From Device</td><td>When the connected device is turned on, the projector will be activated, too.</td></tr> <tr> <td>Power Off Link > From Projector</td><td>When the projector is turned off, the connected device will be shut down, too.</td></tr> </table>	Power On Link > From Device	When the connected device is turned on, the projector will be activated, too.	Power Off Link > From Projector	When the projector is turned off, the connected device will be shut down, too.
Power On Link > From Device	When the connected device is turned on, the projector will be activated, too.				
Power Off Link > From Projector	When the projector is turned off, the connected device will be shut down, too.				
Password	See Utilizing the password function on page 21 .				
Key Lock	With the control keys on the projector and remote control locked, you can prevent your projector settings from being changed accidentally (by children, for example). When the Key Lock is on, no control keys on the projector will operate except  POWER. To release panel key lock, press and hold ► (the right key) on the projector or remote control for 3 seconds.  If you turn off the projector without disabling panel key lock, the projector will still be in locked status the next time it is turned on.				
LED Indicator	You can turn off the LED warning lights. This is to avoid any light disturbance when viewing images in a dark room.				
Reset All Settings	Returns all settings to the factory preset values.  The following settings will still remain: Picture Mode, User Mode Management, Brightness, Contrast, Color, Tint, Sharpness, Advanced, Projector Position, LAN Settings, Source Rename, and Password.				

ISF	The ISF calibration menu is password protected and only accessible by authorized ISF calibrators. The ISF (Imaging Science Foundation) has developed carefully crafted, industry-recognized standards for optimal video performance and has implemented a training program for technicians and installers to use these standards to obtain optimal picture quality from BenQ video display devices. Accordingly, we recommend that setup and calibration be performed by an ISF certified installation technician.  For more information, go to www.imagingscience.com or contact the dealer or retailer from whom you purchased the projector.
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INFORMATION menu

Current System Status	• Source: Shows the current signal source. • Picture Mode: Shows the selected mode in the PICTURE menu. • Resolution: Shows the native resolution of the input signal. • Color System: Shows the input system format. • Color Gamut: Shows the color gamut status. • Light Usage Time: Shows the number of hours the lamp has been used. • 3D Format: Displays the current 3D mode.  3D Format is only available when 3D is enabled. • Firmware Version: Shows the firmware version of your projector. • Service Code: Shows the projector's serial number.
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Maintenance

Care of the projector

Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface. Please be sure to turn off the projector and let it cool down completely before cleaning the lens.

- 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.

Cleaning the projector case

Before you clean the case, turn the projector off using the proper shutdown procedure as described in [Shutting down the projector on page 25](#) and unplug the power cord.

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



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

Storing the projector

If you need to store the projector for an extended time, please follow the instructions below:

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Please refer to [Specifications on page 46](#) or consult your dealer about the range.
- Retract the adjuster feet.
- Remove the battery 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. The method of calculating the equivalent lamp hour is as follows:

1. Lamp Usage Time = (x+y+z) hours, if
Time used in **Normal** mode = x hours
Time used in **Economic** mode = y hours
Time used in **SmartEco** mode = z hours
2. Equivalent Lamp Hour = α hours

$$\alpha = \frac{A'}{X} \times x + \frac{A'}{Y} \times y + \frac{A'}{Z} \times z, \text{ if}$$

X= lamp life spec of **Normal** mode

Y= lamp life spec of **Economic** mode

Z= lamp life spec of **SmartEco** mode

A' is the longest lamp life spec among X, Y, Z,



For time used in each lamp mode shown in OSD menu:

- Time used is accumulated and rounded down to an integer in **hours**.
- When time used is less than 1 hour, it shows 0 hours.



When you calculate Equivalent Lamp hour manually, it will probably have deviation from the value shown in OSD menu since projector system calculates time used for each lamp mode in “Minutes” then rounds down to an integer in hours shown in OSD.

To obtain the lamp hour information:

1. Go to **SYSTEM SETUP: ADVANCED > Lamp Settings** and press **OK**. The **LAMP SETTINGS** page appears.
2. Press **▼** to select **Lamp Timer** and press **OK**. The **Lamp Timer** information is displayed.

You can also get the lamp hour information on the **INFORMATION** menu.

Extending lamp life

- Setting the **Light Mode**

Go to **PICTURE > Advanced > Light Mode** and press **◀/▶** or press **LIGHT MODE** on the remote control to select a suitable lamp power from among the provided modes.

Setting the projector in **Economic** or **SmartEco** mode extends lamp life.

Lamp mode	Description
Normal	Provides full lamp brightness
Economic	Lowens brightness to extend the lamp life and decreases the fan noise
SmartEco	Adjusts the lamp power automatically depending on the content brightness level

- Setting **Auto Off**

This function allows the projector to turn off automatically if no input signal is detected after a set period of time to prevent unnecessary waste of lamp life.

To set **Auto Off**, go to **SYSTEM SETUP: BASIC > Auto Off** and press **◀/▶**.

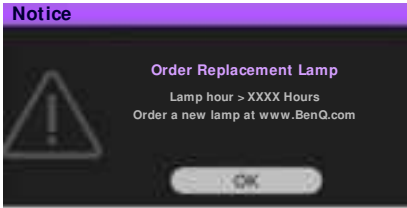
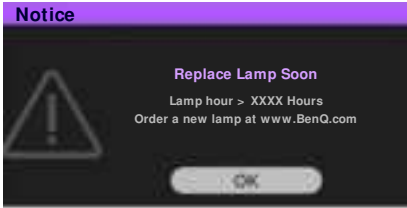
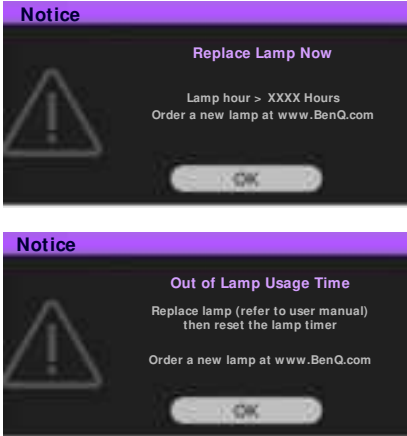
Timing of replacing the lamp

When the **Lamp indicator** lights up red or a message appears suggesting it is time to replace the lamp, please consult your dealer or go to <http://www.BenQ.com> before installing a new lamp. An old lamp may cause a malfunction in the projector and in some instances the lamp may explode.



- The apparent brightness of the projected image will vary depending on the ambient lighting conditions, selected input signal contrast/brightness settings, and is directly proportional to projection distance.
- The lamp brightness will decline over time and may vary within the lamp manufacturers specifications. This is normal and expected behavior.
- The **LAMP indicator light** and **TEMPerature 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 on page 44](#).

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

	Install a new lamp for optimal performance. If the projector is normally run with Economic selected (See Getting to know the lamp hour on page 39), you may continue to operate the projector until the next hour lamp warning appears. Press OK to dismiss the message.
	It is strongly recommended that you replace the lamp at this age. 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. Press OK to dismiss the message.
	The lamp MUST be replaced before the projector will operate normally. Press OK to dismiss the message.



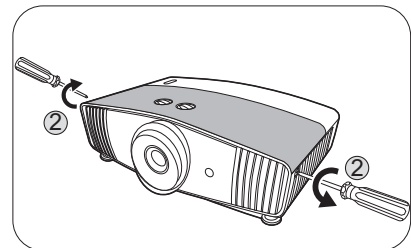
"XXXX" shown in the above messages are numbers that vary depending on different models.

Replacing the lamp (FOR SERVICE PERSONNEL ONLY)



- To reduce the risk of electrical shock, always turn the projector off and disconnect the power cord 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.
- If lamp replacement is performed while the projector is suspended upside-down from the ceiling, make sure that no one is underneath the lamp socket to avoid any possible injury or damage to the human eyes caused by fractured lamp.
- 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. Loosen the screws that secure the lamp cover on the sides of the projector until the lamp cover loosens.

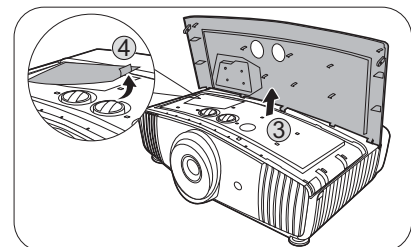


3. Remove the lamp cover from the projector.

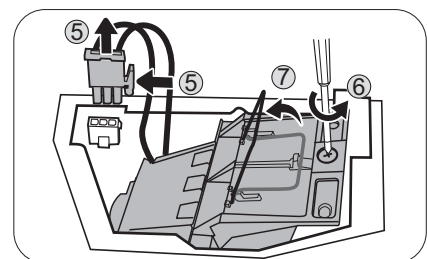


Do not turn the power on with the lamp cover open.

4. Peel off the transparent protection film.



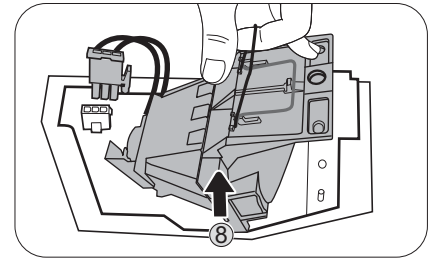
5. Disconnect the lamp connector.
6. Loosen the screw that secures the lamp.
7. Lift the handle so that it stands up.



8. Use the handle to slowly pull the lamp out of the projector.

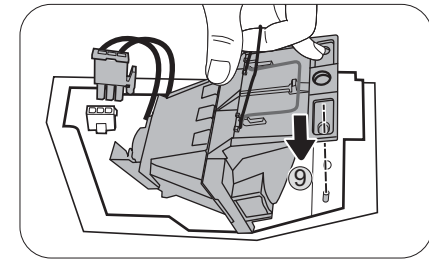


- Pulling it too quickly may cause the lamp to break and scatter broken glass in the projector.
- Do not place the lamp in locations where water might splash on it, children can reach it, or near flammable materials.
- Do not insert your hands into the projector after the lamp is removed. The sharp edges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



9. As shown in the figure, insert the new lamp. Align the lamp connector and 2 sharp points with the projector and push the lamp a bit into the locked position.

10. Insert the lamp connector.

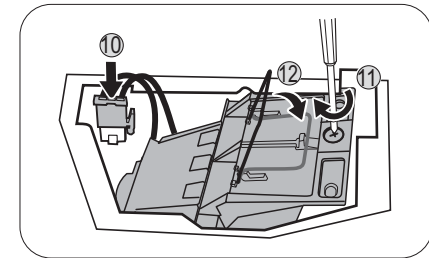


11. Tighten the screw that secures the lamp.

12. Ensure the handle is fully laid flat and locked in place.

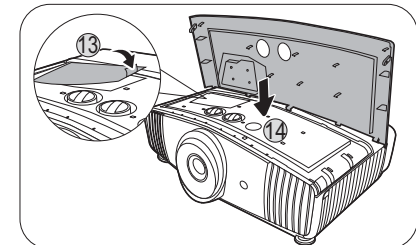


- Loose screw may cause a bad connection, which could result in malfunction.
- Do not over tighten the screw.



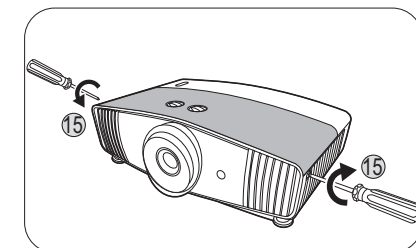
13. Stick the transparent protection film back in place.

14. Replace the lamp cover on the projector.



15. Tighten the screws that secure the lamp cover.

16. Connect the power and restart the projector.



Resetting the lamp timer

17. After the startup logo, open the On-Screen Display (OSD) menu.
18. Go to **SYSTEM SETUP: ADVANCED > Lamp Settings** and press **OK**. The **LAMP SETTINGS** page appears.
19. Highlight **Reset Lamp Timer** and press **OK**. A warning message is displayed asking if you want to reset the lamp timer.
20. Highlight **Reset** and press **OK**. The lamp time will be reset to "0".



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

Indicators

Light			Status & Description
POWER 	TEMP 	LAMP 	
Power events			
			Stand-by mode
			Powering up
			Normal operation
			Normal power-down cooling
			Download
			Color wheel start failed
			Scaler reset fail (video projector only)
			Lamp/light source life exhausted
			Lamp door is not closed
			Burn-in ON
			Burn-in OFF
Lamp events			
			Lamp/light source error in normal operation
			Lamp/light source is not lit up
Thermal events			
			Fan 1 error (the actual fan speed is outside the desired speed)
			Fan 2 error (the actual fan speed is outside the desired speed)
			Fan 3 error (the actual fan speed is outside the desired speed)
			Fan 4 error (the actual fan speed is outside the desired speed)
			Fan 5 error (the actual fan speed is outside the desired speed)
			Temperature 1 error (over limited temperature)
			Thermal IC#1 I2C connection error

	 : Off	 : Orange On  : Orange Flashing	 : Green On  : Green Flashing	 : Red On  : Red Flashing
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Troubleshooting

? The projector does not turn on.

Cause	Remedy
There is no power from the power cord.	Plug the power cord into the AC power jack on the projector, and plug the power cord into 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

Cause	Remedy
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 signal device.	Check the connection.
The input signal has not been correctly selected.	Select the correct input signal with the SOURCE key.
The lens cover is still closed.	Open the lens cover.

? Blurred image

Cause	Remedy
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 the projector if necessary.
The lens cover is still closed.	Open the lens cover.

? Remote control does not work.

Cause	Remedy
The batteries are out of power.	Replace both of the batteries with new ones.
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 feet) of the projector.

? The password is incorrect.

Cause	Remedy
You do not remember the password.	See Entering the password recall procedure on page 21 .

Specifications

Projector specifications



All specifications are subject to change without notice.

Optical

Resolution

3840 x 2160 with XPR

Display system

1-CHIP DMD

Lens

F = 1.81 to 2.10, f = 14.30 to 22.90 mm

Clear focus range

1.75 – 5.83 m @ Wide,

2.8 – 9.32 m @ Tele

Lamp

240 W lamp

Electrical

Power supply

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

Power consumption

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

Mechanical

Weight

6.5 Kg $\pm$ 100 g (14.33 $\pm$ 0.22 lbs)

Output terminals

Audio signal output

PC audio jack x 1

SPDIF x 1

Control

12V DC x 1 (0.5 A power supply)

USB

Mini-B x 1

RS-232 serial control

9 pin x 1

IR receiver x 2

IR (Mini Jack) x 1

Input terminals

Digital

HDMI (2.0b, HDCP 2.2) x 2

USB

3.0 Type-A x 1 (Media Reader, 1 A)

2.0 Type-A x 1 (Media Reader, 1.5 A)

2.0 Type-A x 1 (2.5 A power supply)

Environmental Requirements

Operating temperature

0°C–40°C at sea level

Storage temperature

-20°C–60°C at sea level

Operating/Storage 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)

Storage altitude

30°C @ 0–12,200 m above sea level

Repairing

Please visit below website and choose your country to find your service contact window.

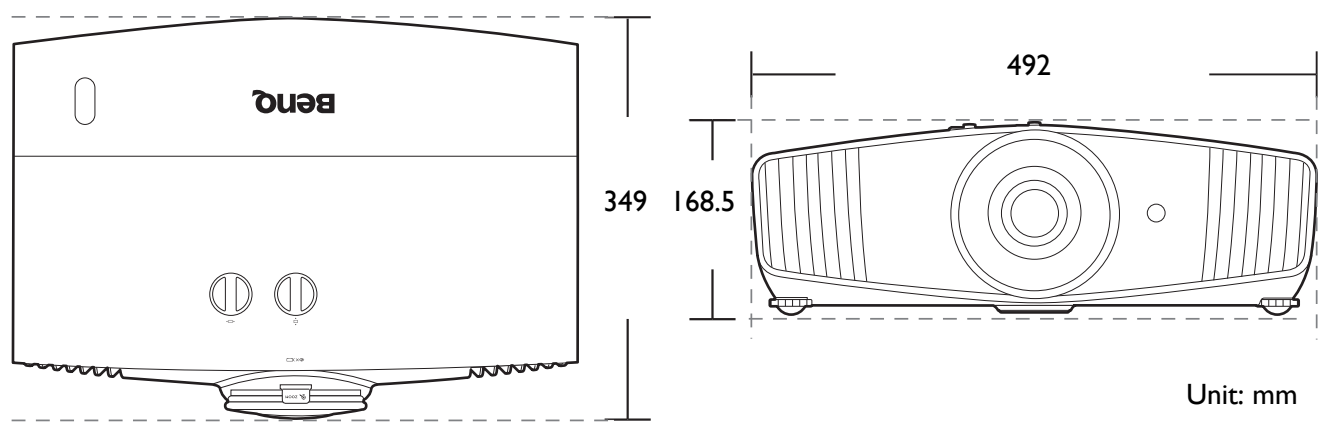
<http://www.benq.com/welcome>

Transporting

Original packing or equivalent is recommended.

Dimensions

492 mm (W) x 168.5 mm (H) x 349 mm (D)



Timing chart

Supported timing for HDMI (HDCP) input

• PC timings

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)	Clock (MHz)	Sequential 3D Field over-under	3D side-by-side	3D
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	v		
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	v		
1152 x 864	1152 x 864_75	75.00	67.500	108.000			
1024 x 576	BenQ Notebook Timing	60.00	35.820	46.996			
1024 x 600	BenQ Notebook Timing	64.995	41.467	51.419			
1280 x 720	1280 x 720_60	60	45.000	74.250			
1280 x 768	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			
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	59.887	55.935	106.500			
1400 x 1050	SXGA+_60	59.978	65.317	121.750			
1680 x 1050	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)	1920 x 1080_60 (for Auditorium model)	59.963	67.158	173			
1920 x 1080@120Hz	1920 x 1080_120 (Only HDMI 2.0 support)	120.000	135.000	297			

3840 x 2160	3840 x 2160_30 For 4K2K model	30	67.5	297			
3840 x 2160	3840 x 2160_60 For 4K2K model (Only HDMI 2.0 support)	60	135	594			



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

• Video timings

Timing	Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Dot Clock Frequency (MHz)	3D Field Sequential	3D frame packing	3D over-under	3D side-by-side
480i	720 (1440) x 480	15.73	59.94	27				
480p	720 x 480	31.47	59.94	27				
576i	720 (1440) x 576	15.63	50	27				
576p	720 x 576	31.25	50	27				
720/50p	1280 x 720	37.5	50	74.25		v	v	
720/60p	1280 x 720	45.00	60	74.25		v	v	
1080/24P	1920 x 1080	27	24	74.25		v	v	
1080/25P	1920 x 1080	28.13	25	74.25				
1080/30P	1920 x 1080	33.75	30	74.25				
1080/50i	1920 x 1080	28.13	50	74.25				v
1080/60i	1920 x 1080	33.75	60	74.25				v
1080/50P	1920 x 1080	56.25	50	148.5				
1080/60P	1920 x 1080	67.5	60	148.5				
2160/24P	3840 x 2160 (Only HDMI 2.0 support)	54	24	297				
2160/25P	3840 x 2160 (Only HDMI 2.0 support)	56.25	25	297				
2160/30P	3840 x 2160 (Only HDMI 2.0 support)	67.5	30	297				
2160/50P	3840 x 2160 (Only HDMI 2.0 support)	112.5	50	594				
2160/60P	3840 x 2160 (Only HDMI 2.0 support)	135	60	594				