



Digital Projector User Manual

Home Entertainment Series | TH575C/TH575i

V 1.00



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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The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

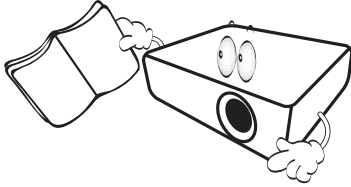
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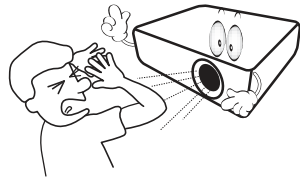
Important safety instructions

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.

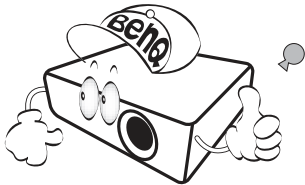
1. **Please read this manual before you operate your projector.** Save it for future reference.



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

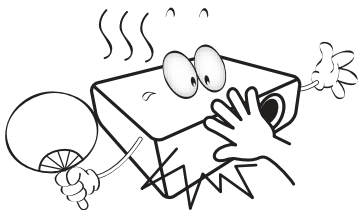


3. **Refer servicing to qualified service personnel.**

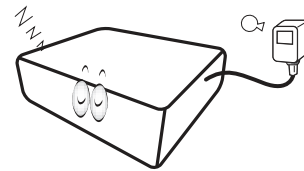


4. **Always open the lens shutter (if any) or remove the lens cap (if any) when the projector lamp is on.**

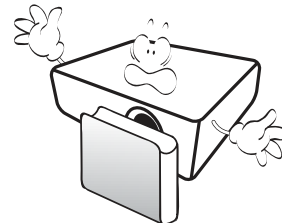
5. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.



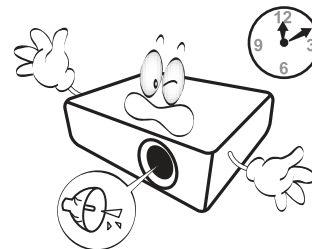
6. In some countries, the line voltage is NOT stable. This projector is designed to operate safely within a mains voltage between 100 to 240 volts AC, but could fail if power cuts or surges of ± 10 volts occur. **In areas where the mains voltage may fluctuate or cut out, it is recommended that you connect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



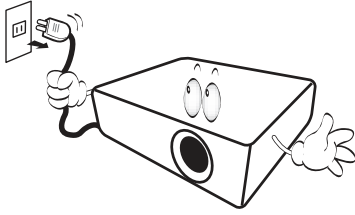
7. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire. To temporarily turn off the lamp, use the blank function.



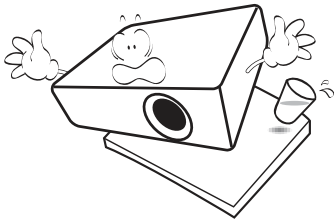
8. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause them to break on rare occasions.



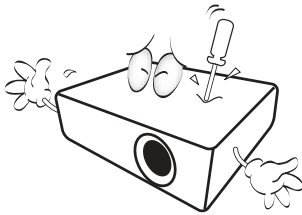
9. Never replace the lamp assembly or any electronic components unless the projector is unplugged.



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

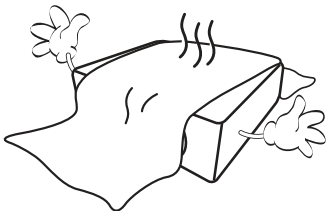


11. Do not attempt to disassemble this projector. There are dangerous high voltages inside which may cause death if you should come into contact with live parts. The only user serviceable part is the lamp which has its own removable cover. Under no circumstances should you ever undo or remove any other covers. Refer servicing only to suitably qualified professional service personnel.



12. Do not block the ventilation holes.

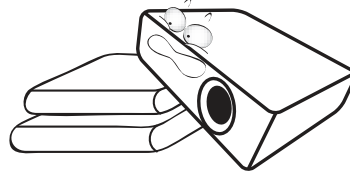
- Do not place this projector on a blanket, bedding or any other soft surface.
- Do not cover this projector with a cloth or any other item.
- Do not place inflammables near the projector.



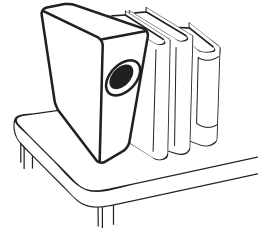
If the ventilation holes are seriously obstructed, overheating inside the projector may result in a fire.

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

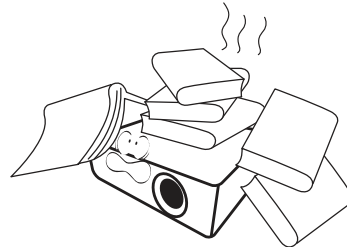
- Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back. Using the projector when it is not fully horizontal may cause a malfunction of, or damage to, the lamp.



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.

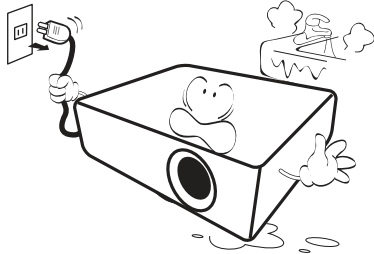


15. Do not step on the projector or place any objects upon it. Besides probable physical damage to the projector, doing so may result in accidents and possible injury.

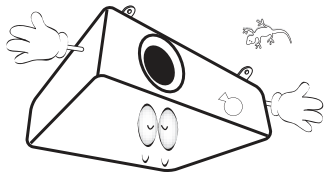


16. When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal phenomenon and not a product defect.

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.



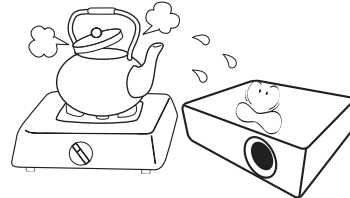
18. This product is capable of displaying inverted images for ceiling/wall mount installation.



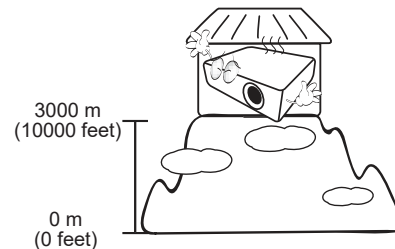
19. This apparatus must be earthed.

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 light sources and light source 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 light source. May be harmful to the eyes.
4. As with any bright source, do not stare into the direct beam.



- ! To avoid damaging the DLP chips, never aim a high-power laser beam into the projection lens.
- ! Hg - Lamp contains mercury. Manage in accordance with local disposal laws. See www.lamprecycle.org.

IC statement

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR 'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout rouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure statement

Radiation Exposure Statement: The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual.

Déclaration d'exposition aux radiations : Le produit est conforme aux limites d'exposition pour les appareils portable RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This radio should NOT be installed and operating simultaneously with other radio

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.

UK and EU statement

Hereby, [BenQ Corporation], declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full test of the EU declaration of conformity is available at the following Internet address:

<https://www.benq.eu/en-eu/index.html>

Radio Equipment Regulations 2017 (S.I. 2017/1206)



This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

⎓ The symbol indicates DC voltage.

NCC 警語：

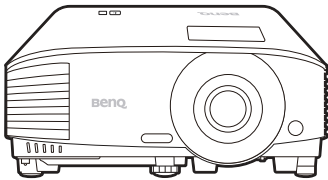
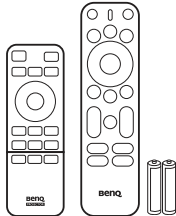
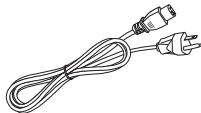
「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

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 (varies by region)	Power cord
		
Quick start guide	Warranty card*	StreamX1 dongle (varies by region)

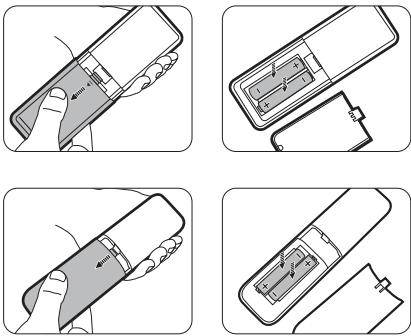
- 
- The supplied accessories will be suitable for your region, and may differ from those illustrated.
 - *The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

Optional accessories

1. Ceiling mount (CM00G3)

Replacing the remote control batteries

1. Press and open the battery cover, as illustrated (varies by region).
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. Replace the battery cover 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.

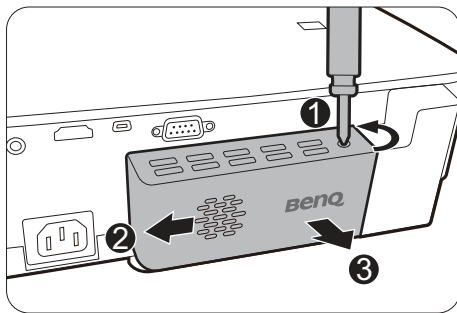
Installing the StreamX1 dongle (regional specific)

To install the dongle, see the instructions below. With a successful installation, you can enjoy more entertainment programs through this projector.



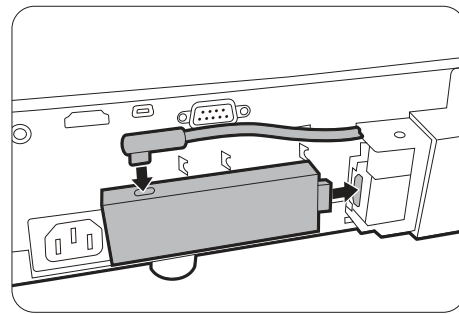
- Required for product supplied with an StreamX1 dongle.
- The supplied streaming dongle varies by region. In some of the regions, the StreamX1 dongle is supplied and you need to make installation and setup properly before use.

1. Make sure the projector is turned off and the power cord is disconnected.
2. Loosen the screw that secure the cover ①. Slide to remove the cover ②③.

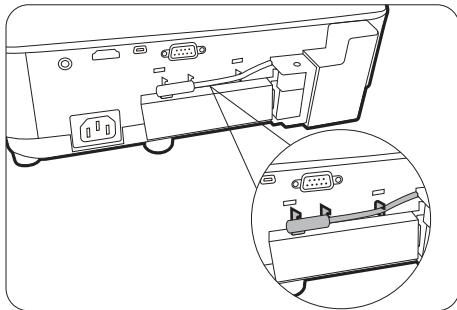


3. Plug the USB Type C cable to the dongle.
4. Plug the dongle to the HDMI* port on the projector.

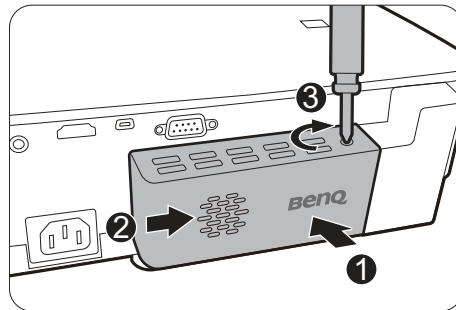
*This HDMI port is for connecting with the StreamX1 dongle only.



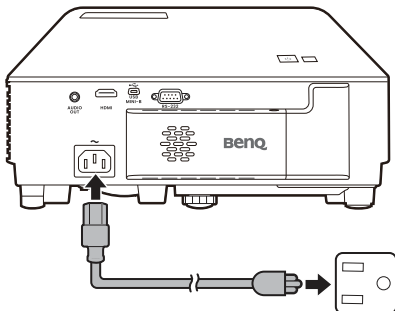
5. Fit the USB Type C cable in place above the dongle.



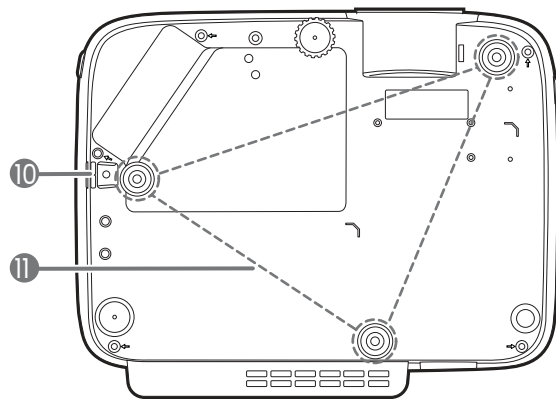
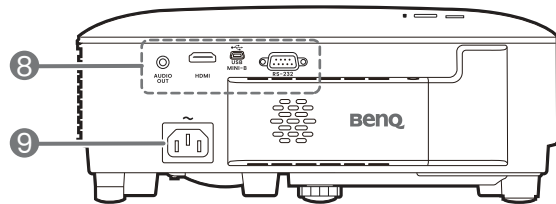
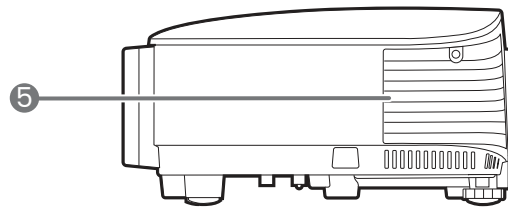
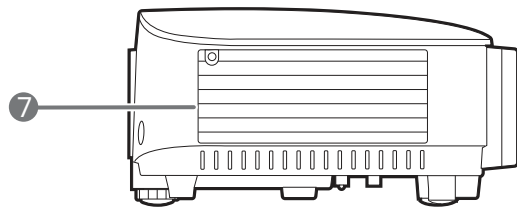
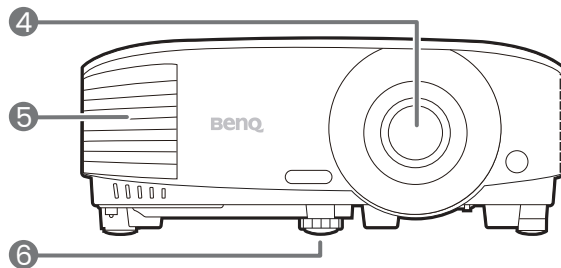
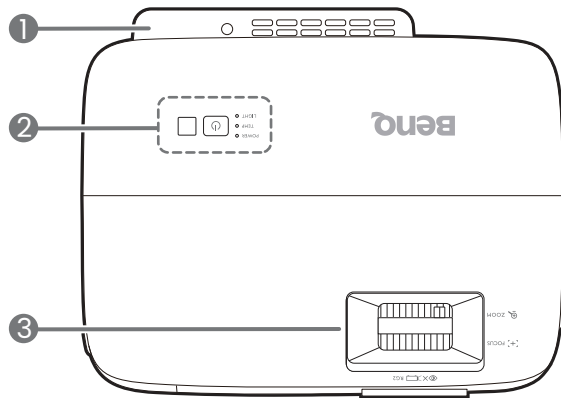
6. Replace the projector cover ①②, and tighten the screw ③.



7. Connect the power cord to the projector and turn it on. Press /SOURCE to select **Android TV**.



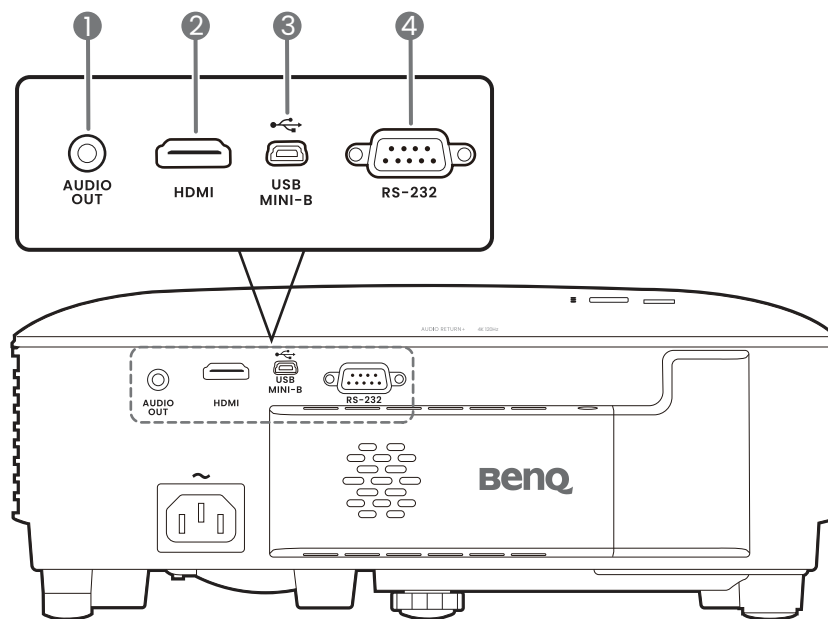
Projector exterior view



1. StreamX1 dongle port
See [Installing the StreamX1 dongle \(regional specific\)](#) on page 10 for how to remove the cover.
2. External control panel
(See [Controls and functions](#) on page 13.)
3. Focus ring and Zoom ring
4. Projection lens
5. Vent (air exhaust)

6. Adjuster foot
7. Vent (air inlet)
8. Terminal panel
(See [Terminals](#) on page 12.)
9. AC power jack
10. Anti-theft security bar
11. Wall mount holes

Terminals

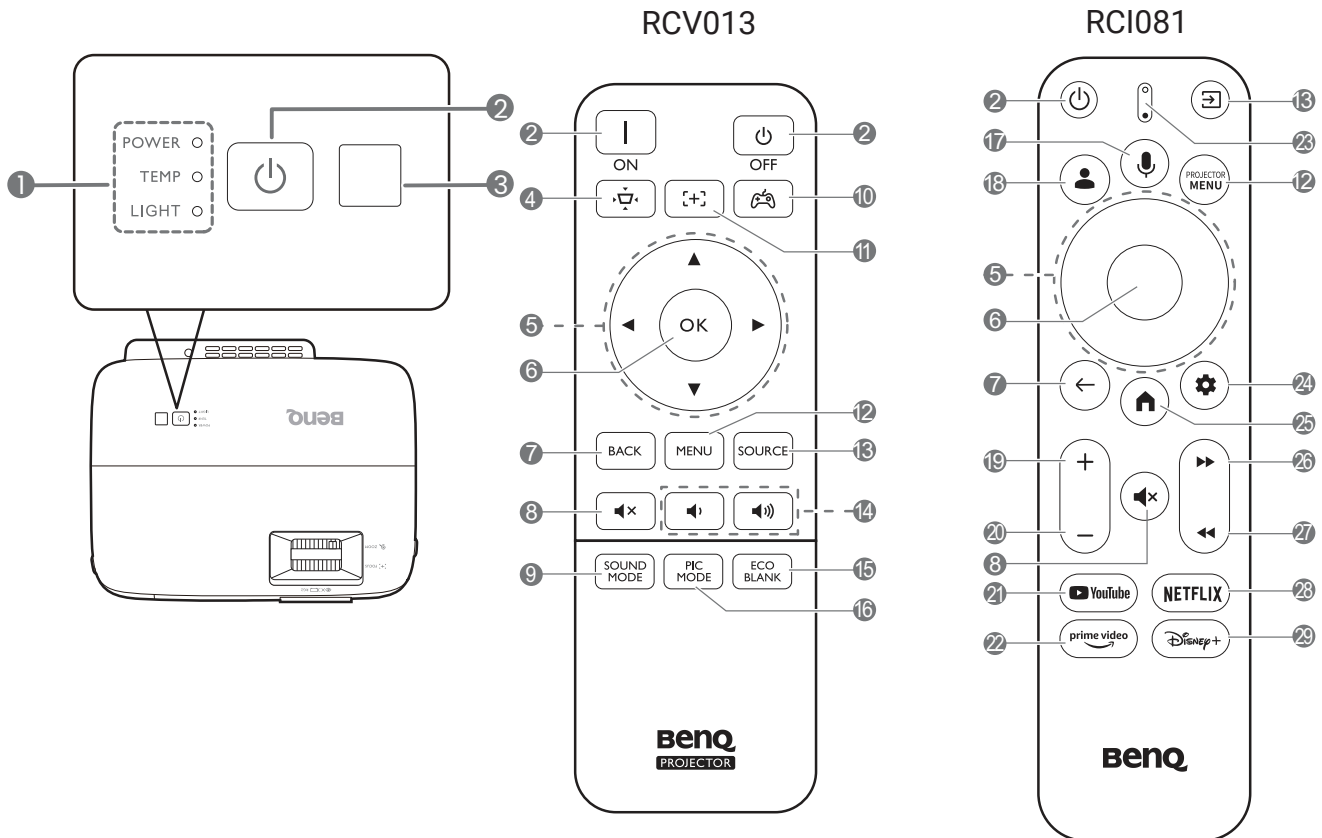


1. Audio output jack
2. HDMI input port (Version 1.4)
3. USB Mini-B port (for firmware update)
4. RS-232 control port

Controls and functions

Projector & Remote control

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



1. **POWER indicator light/TEMPerature warning light/LIGHT indicator light**
(See [Indicators on page 47.](#))

2.  **POWER**

Toggles the projector between standby mode and on.

 **ON** /  **Off**

Toggles the projector between standby mode and on.

3. IR remote sensor

4. 

Displays the keystone menu. See [Correcting keystone on page 20](#) for details.

5. Arrow keys (, , , )

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

6. **OK**

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

7. **BACK** / 

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

8.  / 

Toggles projector audio between on and off.

9. SOUND MODE

Displays the sound mode menu.

*Available on compatible projectors only.

10.

Selects a preset picture and sound mode for games (**Bright/Dark**).

11.

This function is not available on this model.

12. MENU/

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

13. SOURCE/

Displays the source selection bar.

14. / or + / -

Decreases or increase the projector volume.

15. 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.

16. PIC MODE

Displays the picture mode menu.

17.

Press and hold to activate the voice assistant or voice search. Hold this key and speak to the microphone at the top of the remote control while using voice assistant.

18.

Under Android TV, opens user profile.

Under other sources, switches the source to Android TV and opens user profile.

19.

Increases the projector volume.

20.

Decreases the projector volume.

21.

Opens YouTube application.

22.

Opens prime video application.

23.

LED indicator and microphone.

24.

Under Android TV, opens the Android Setting menu or the settings menu for the current application.

If the projector OSD is on, press to close the OSD.

25.

Opens Android TV home screen.

26.

Under Android TV, forwards multimedia files.

If the projector OSD is on, press to close the OSD.

27.

Under Android TV, rewinds multimedia files.

If the projector OSD is on, press to close the OSD.

28.

Opens NETFLIX application.

29.

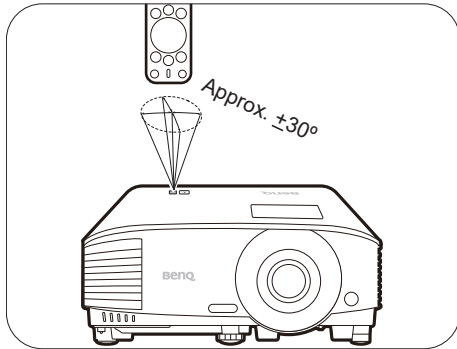
Opens Disney+ application.

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



Positioning your projector

Choosing a location

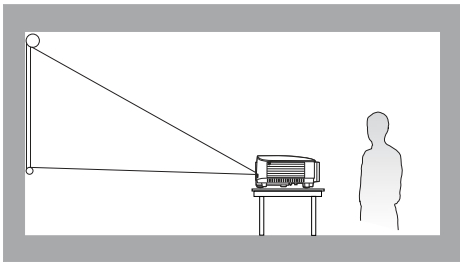
Before choosing an installation location for your projector, take the following factors into consideration:

- 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.

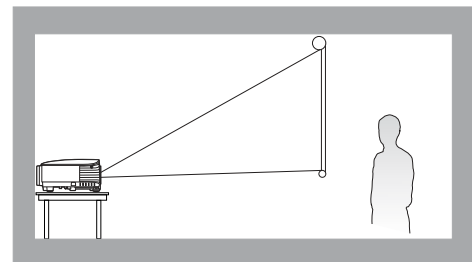
1. Front Table

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.



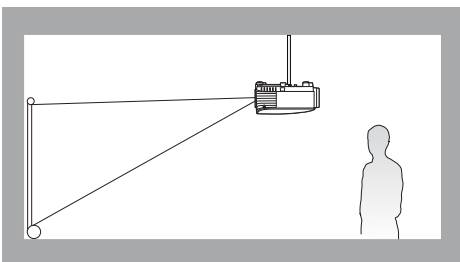
2. Rear Table

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



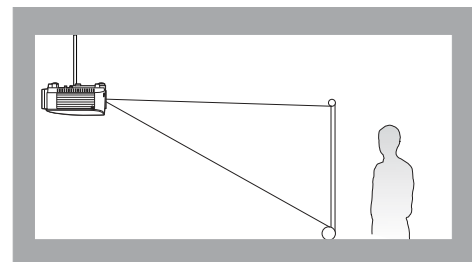
3. Front Ceiling

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



4. Rear Ceiling

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

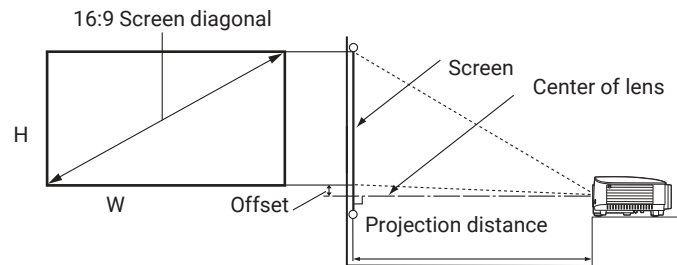


After turning on the projector, go to **Advanced Menu - Settings > Projector Installation** and press ◀/▶ to select a setting.

Obtaining a preferred projected image size

The distance from the projector lens to the screen, the zoom setting (if available), 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				Projection distance (mm)			Offset (mm)
Diagonal		H (mm)	W (mm)	Min distance	Average	Max distance	
Inch	mm			(max. zoom)		(min. zoom)	
30	762	374	664	990	1039	1089	30
40	1016	498	886	1319	1386	1452	40
50	1270	623	1107	1649	1732	1815	50
60	1524	747	1328	1979	2079	2178	60
70	1778	872	1550	2309	2425	2541	70
80	2032	996	1771	2639	2772	2905	80
90	2286	1121	1992	2969	3118	3268	90
100	2540	1245	2214	3299	3465	3631	100
110	2794	1370	2435	3628	3811	3994	110
120	3048	1494	2657	3958	4158	4357	120
130	3302	1619	2878	4288	4504	4720	130
140	3556	1743	3099	4618	4850	5083	139
150	3810	1868	3321	4948	5197	5446	149
160	4064	1992	3542	5278	5543	5809	159
170	4318	2117	3763	5608	5890	6172	169
180	4572	2241	3985	5937	6236	6535	179
190	4826	2366	4206	6267	6583	6898	189
200	5080	2491	4428	6597	6929	7261	199
250	6350	3113	5535	8246	8661	9077	249
300	7620	3736	6641	9896	10394	10892	299

For example, if you are using a 120-inch screen, the recommended projection distance is 4158 mm.

If your measured projection distance is 5200 mm, the closest match in the "[Projection distance \(mm\)](#)" column is 5197 mm. Looking across this row shows that a 150" (about 3.8 m) screen is required.



To optimize your projection quality, we suggest to do the projection within non-gray area.

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.

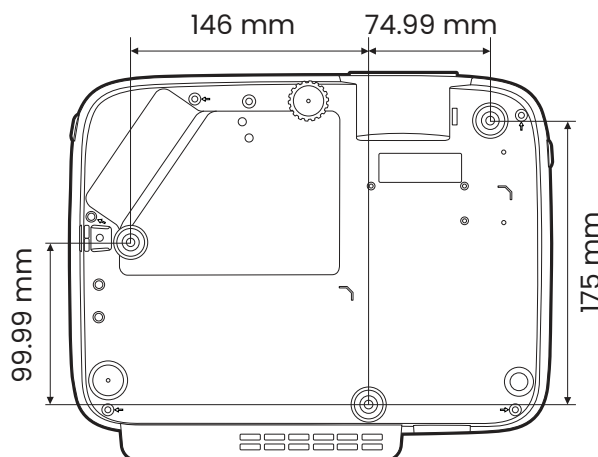
If you use a non-BenQ brand projector mounting kit, there is a safety risk that the projector may fall down due to an improper attachment through the use of the wrong gauge or length screws.

Before mounting the projector

- Purchase a BenQ projector mounting kit from the place you purchased your BenQ projector.
- BenQ recommends that you also 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 mounting bracket. 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/wall mounted. If a heater is used, the temperature around the ceiling/wall 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/Wall mount installation diagram

Ceiling/Wall mount screw: M4 x 8L (Unit: mm)

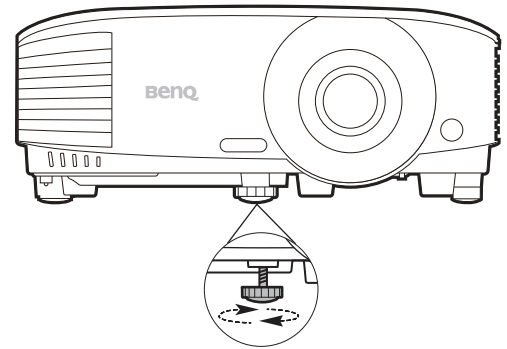


Adjusting the projected image

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 foot to fine-tune the horizontal angle.

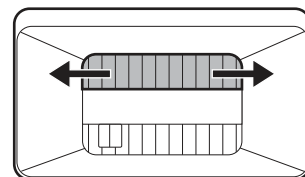
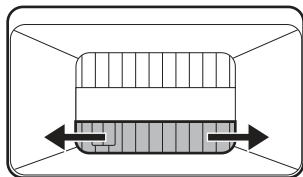
To retract the foot, screw the adjuster foot in a reverse direction.



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

Adjust the projected image to the size that you need using the zoom ring. 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 correct this, you will need to manually correct it following these steps.

1. Do one of the following steps to display the keystone correction page.

- Press **[+]** on the remote control (for selected region only).
- Go to **Advanced Menu - Display > Keystone** and press **OK**.

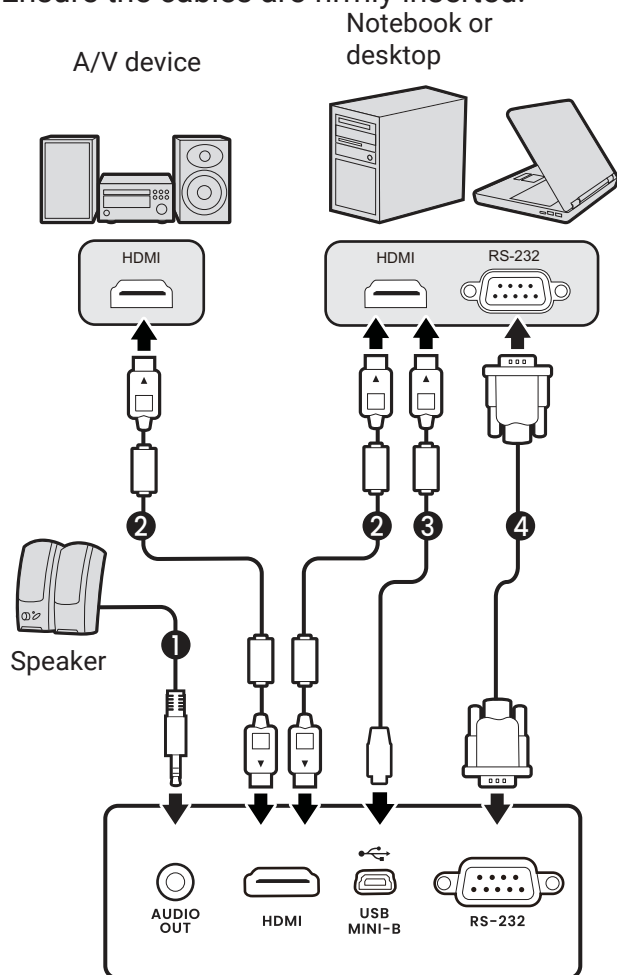
2. After the **Keystone** correction page displays. Press **▲** to correct keystone at the top of the image. Press **▼** to correct keystone at the bottom of the image.



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.



1	Audio cable
2	HDMI cable
3	USB cable (for service only)
4	RS-232 cable



- In the connections above, some cables may not be included with the projector (see [Shipping contents on page 9](#)). 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.

Connecting audio

The projector has built-in mono speaker(s) which are designed to provide basic audio functionality accompanying data presentations for business purposes only. They are not designed for, nor intended for stereo audio reproduction use as might be expected in home theater or home cinema applications. Any stereo audio input (if provided), is mixed into a common mono audio output through the projector speaker(s).

The built-in speaker(s) will be muted when the **AUDIO OUT** jack is connected.



- The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected.

Operation

Starting up the projector

1. Plug the power cord. Turn on the power outlet switch (where fitted). The power indicator on the projector lights orange after power has been applied.

2. Press  or  to start the projector. The power indicator flashes green and stays green when the projector is on.

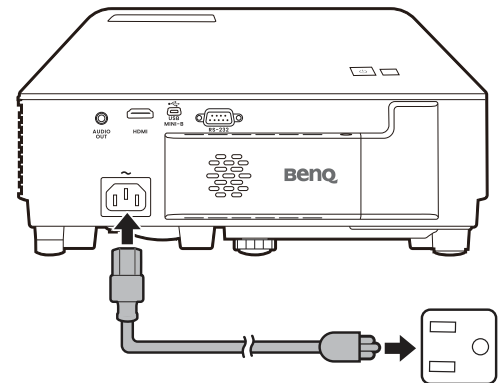
The start up procedure takes about 30 seconds. In the later stage of start up, a startup logo is projected.

(If necessary) Rotate the focus ring to adjust the image clearness.

3. If the projector is activated for the first time, select your OSD language following the on-screen instructions.
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 27](#).
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 continue displaying until an input signal is found.

You can also press the **SOURCE** or the  button on your remote control to select your desired input signal. See [Switching input signal on page 29](#).



- 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 51](#).
- If no signal is detected for 3 minutes, the projector automatically enters saving mode.

Setting up the StreamX1 dongle (regional specific)



- Required for product supplied with the StreamX1 dongle.
- You should install the dongle first as instructed in [Installing the StreamX1 dongle \(regional specific\)](#) on page 10.
- Screens and procedures vary by product. Simply follow the on-screen instructions.

Before you start

Check that you have:

- A Wi-Fi Internet Connection
- A Google Account

Set up your device

There are 3 options to set up your device:

- Quick Setup using an Android phone



- Using your phone or computer



- Using your remote control



Display Google TV home screen



- For more information, visit <https://support.google.com/googletv/>.
- Refer to the user documentations of your Google TV dongle for further operating instructions.

Using the menus

The projector is equipped with 2 types of On-Screen Display (OSD) menus for making various adjustments and settings.

- **Basic** OSD menu: provides primary menu functions. (See [Basic menu on page 35](#))
- **Advanced** OSD menu: provides full menu functions. (See [Advanced menu on page 37](#))

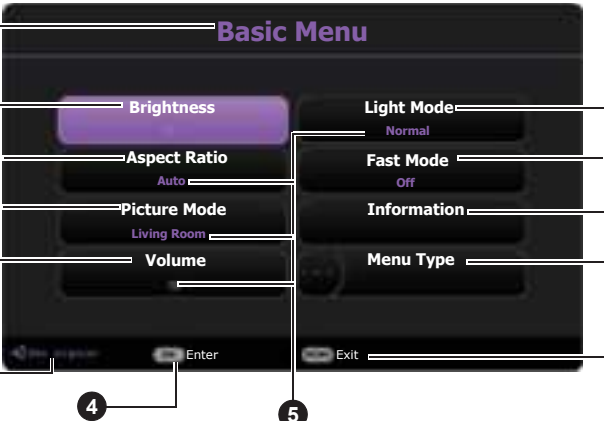
To access the OSD menu, press **MENU** or (insert icon) on the remote control.

- 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.

The first time you use the projector (after finishing the initial setup), Basic OSD menu displays.

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

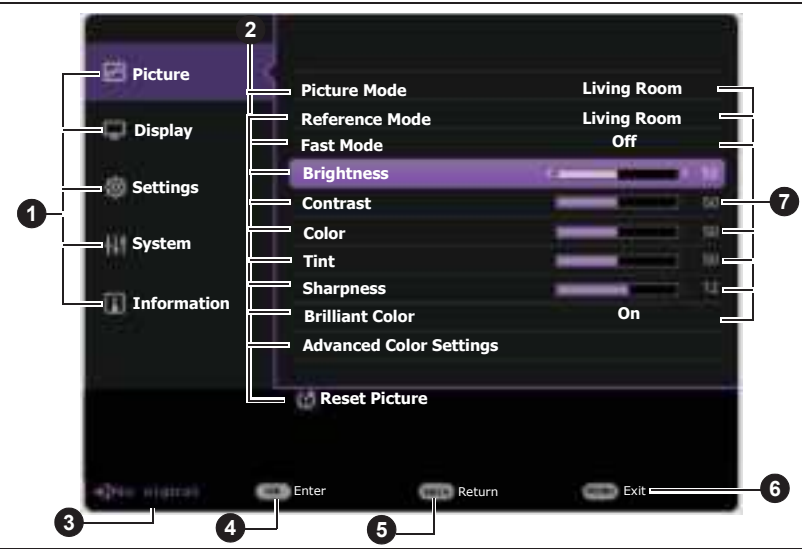
Below is the overview of the **Basic** OSD menu.

		1	Menu Type	4	Press OK to enter the menu.
		2	Main menu	5	Status
		3	Current input signal	6	Press MENU to exit.

If you intend to switch from the **Basic** OSD menu to the **Advanced** OSD menu, follow the instructions below:

1. Go to **Basic Menu > Menu Type**.
2. Press **OK** and press ▲/▼ to select **Advanced**. Next time when you turn on the projector, you may access the **Advanced** OSD menu by pressing **MENU**.

Below is the overview of the **Advanced** OSD menu.

		1	Main menu & Main menu icon	5	Press BACK to go to the previous page.
		2	Sub-menu	6	Press MENU to exit.
		3	Current input signal	7	Status
		4	Press OK to enter the menu.		

Likewise, when you wish to switch from the **Advanced** OSD menu to the **Basic** OSD menu, follow the instructions below:

1. Go to **Advanced Menu - System > Menu Settings** and press **OK**.
2. Select **Menu Type** and **OK**.
3. Press **▲/▼** to select **Basic**. Next time when you turn on the projector, you may access the **Basic** OSD menu by pressing **MENU**.

Securing the projector

Using a security cable lock

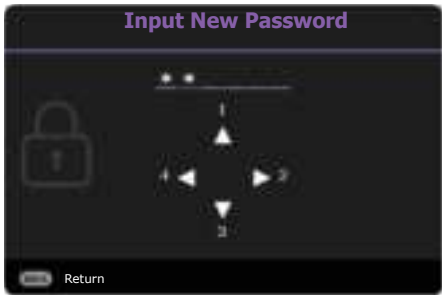
The projector has to be installed in a safe place to prevent theft. Otherwise, purchase a lock, such as the Kensington lock, to secure the projector. You can locate a Kensington lock slot on the rear side of the projector. See item 11 on [page 11](#).

A Kensington security cable lock is usually a combination of key(s) and the lock. Refer to the lock’s documentation for finding out how to use it.

Utilizing the password function

Setting a password

1. Go to **Advanced Menu - Settings > Security Settings**. Press **OK**. The **Security Settings** 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 **Security Settings** page.
5. To activate the **Power On Lock** function, press **▲/▼** to highlight **Power On Lock** and press **◀/▶** to select **On**. Input the password again.



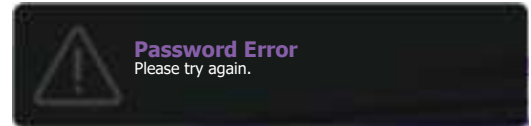


- The digits being input will display as asterisks on-screen. Make a note of your selected password and keep it in a safe place in advance or right after the password is entered so that it is available to you should you ever forget it.
- Once a password has been set and the power on lock is activated,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

If you forget the password

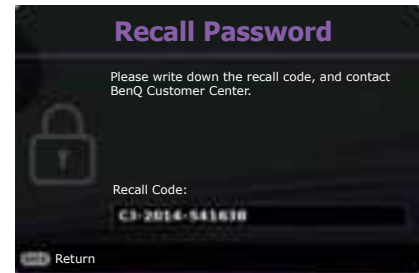
If you enter the wrong password, the password error message will appear, and the **Input Password** message follows. If you absolutely do not remember the password, you can use the password recall procedure. See [Entering the password recall procedure on page 29](#).

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 **Advanced Menu - Settings > Security Settings > Change Password**.
2. Press **OK**. The message **"Input Password"** 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 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 **Advanced Menu - Settings > Security Settings > Power On Lock** and press **◀/▶** to select **Off**. The message **"Input Password"** appears. Enter the current password.

- If the password is correct, the OSD menu returns to the **Security Settings** 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 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.

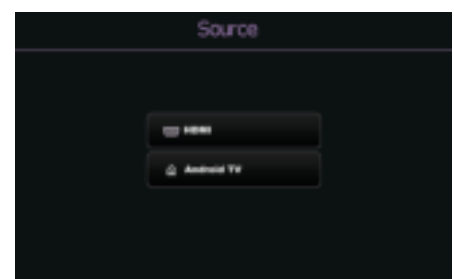
Switching input signal

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 **Advanced Menu - Settings > Auto Source Search** 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**.



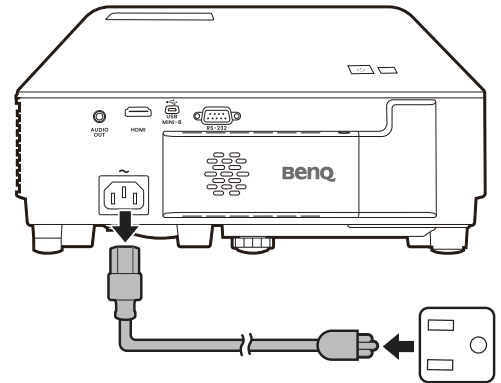
Once detected, the selected source information will appear at the corner of the screen for seconds. If there is multiple equipment connected to the projector, repeat steps 1-2 to search for another signal.



- 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 35](#).

Shutting down the projector

1. Press  or  and a confirmation message will appear prompting you. If you don't respond in a few seconds, the message will disappear.
2. Press  or  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.
- To shorten the cooling time, you can also activate the Quick cooling function. See [Quick Cooling on page 41](#).
- 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.

Direct power off

The AC power cord can be pulled out right after the projector is turned off. To protect the lamp, wait about 10 minutes before re-starting the projector. If you attempt to re-start the projector, the fans may run for a few minutes to cool down. In such cases, press  or  again to start the projector after the fans stop and the power indicator turns orange.

Menu operation

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.

Menu System

Basic menu

Main menu	Options
Brightness	0~50~100
Aspect Ratio	Auto/4:3/16:9
Picture Mode	Bright/Living Room/Cinema/Game/Sports/(3D)/User 1/User 2
Volume	0~10~20
Light Mode	Normal/ECO/SmartEco/LampSave
Fast Mode	On/Off
Information	Native Resolution
	Detected Resolution
	Source
	Picture Mode
	Light Mode
	3D Format
	Color System
	Light Usage Time
	Firmware Version
	Service Code
Menu Type	Basic/Advanced

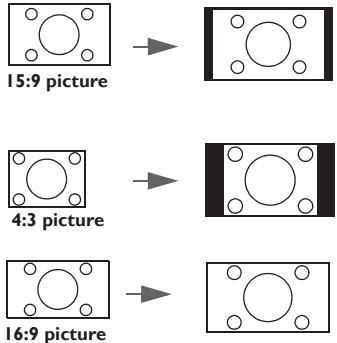
Advanced menu

Main menu	Submenu	Options
Picture	Picture Mode	Bright/Living Room/Cinema/ Game/Sports/(3D)/User 1/User 2
	Reference Mode	Bright/Living Room/Cinema/ Game/Sports
	Fast Mode	On/Off
	Brightness	0~50~100
	Contrast	0~50~100
	Color	0~50~100
	Tint	0~50~100
	Sharpness	0~7~15
	Brilliant Color	On/Off
	Color Temperature	Cool/Normal/Warm/Native
		R Gain (0~200)
	Color Temperature Tuning	G Gain (0~200)
		B Gain (0~200)
		R Offset (0~511)
		G Offset (0~511)
		B Offset (0~511)
	Advanced Color Settings	R (Primary Color/Hue/ Saturation/Gain)
		G (Primary Color/Hue/ Saturation/Gain)
		B (Primary Color/Hue/ Saturation/Gain)
		C (Primary Color/Hue/ Saturation/Gain)
		M (Primary Color/Hue/ Saturation/Gain)
		Y (Primary Color/Hue/ Saturation/Gain)
		W (Primary Color/R Gain/ G Gain/B Gain)
	Gamma Selection	1.6/1.8/2.0/2.1/2.2/2.3/2.4/2.6/2.8/Ben Q
	Light Mode	Normal/ECO/SmartEco/LampSave
	Reset Picture	Reset/Cancel

Main menu	Submenu		Options
Display	Aspect Ratio		Auto/4:3/16:9
	Keystone		-40~0~40
	Auto Vertical Keystone		-40~0~40
	Test Pattern		On/Off
	3D	3D Mode	Auto/Top-Bottom/ Frame Sequential/ Frame Packing/Side by Side/Off
		3D Sync Invert	Disable/Invert
		Apply 3D Settings	3D Settings 1/3D Settings 2/ 3D Settings 3/Off
		Save 3D Settings	3D Settings 1/3D Settings 2/ 3D Settings 3
	HDMI Format	HDMI	Auto/RGB Limited/RGB Full/ YUV Limited/YUV Full
		Android TV	Auto/RGB Limited/RGB Full/ YUV Limited
	Reset Display		Reset/Cancel
Settings	Projector Installation		Front Table/Rear Table/Rear Ceiling/Front Ceiling
	Auto Source Search		On/Off
	Light Settings	Reset Light Timer	Reset/Cancel
		Light Usage Time	
	Operation Settings	Quick Cooling	On/Off
		Reminder Message	On/Off
		High Altitude Mode	On/Off
		Power On/Off Settings	Direct Power On
			Signal Power On
			Auto Power Off
			Power Off Timer
	Security Settings	Instant Restart	On/Off
		Panel Key Lock	On/Off
		Change Password	
		Power On Lock	On/Off
	Baud Rate		9600/14400/19200/38400/57600/ 115200
	HDMI Equalizer	HDMI Android TV	Auto/Lower/Low/Middle/High/ Higher
	Reset Settings		Reset/Cancel

Main menu	Submenu	Options
System	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/Bhs Ind / Ελληνικά/العربية/हिंदी
	Background Settings	Background BenQ/Black/Blue/Purple Splash Screen BenQ/Black/Blue
	Menu Settings	Menu Type Basic/Advanced Menu Display Time 5 sec/10 sec/20 sec/30 sec/Always
	Audio Settings	Mute On/Off
		Volume 0~10~20
		Power On/Off Ring Tone On/Off
	Factory Default	Reset/Cancel
	Reset System	Reset/Cancel
Information	Native Resolution	
	Detected Resolution	
	Source	
	Picture Mode	
	Light Mode	
	3D Format	
	Color System	
	Light Usage Time	
	Firmware Version	
	Service Code	

Basic menu

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.
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. 
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. • Living Room: With well-saturated color, fine-tuned sharpness, and a higher brightness level, Living Room mode is suitable for TV streaming in rooms where there is a small amount of ambient light, e.g. your living room. • Cinema: With accurate color and deepest contrast at lower brightness level, Cinema mode is suitable for playing movies in an environment with a bit of ambient light, as if in a commercial cinema. • Game: This mode is best for playing video games in rooms where there is a small amount of ambient light, eg. your living room. • Sports: With well-saturated colors and higher brightness level, this mode is best for watching sporting events in a bright room. • 3D: Is appropriate for playing 3D images and 3D video clips. • User 1/User 2: Recalls the settings customized based on the current available picture modes. See Reference Mode on page 37.
Volume	Adjusts the sound level.
Light Mode	See Setting the Light Mode on page 45 .

Fast Mode	Minimizes the response time between the input source and the displayed image. For the optimized latency, when Fast Mode is activated, Keystone/Aspect Ratio will return to the default settings, and Auto Vertical Keystone will be turned off automatically. *Fast Mode can only be enabled for below input timing adopted by most of popular games: - 1080p 60Hz/120Hz/240Hz - 4K 60Hz
Information	• Native Resolution: Shows the native resolution of the projector. • Detected Resolution: Shows the native resolution of the input signal. • Source: Shows the current signal source. • Picture Mode: Shows the selected mode in the Picture menu. • Light Mode: Shows the selected mode in the Light Settings menu. • 3D Format: Shows the current 3D mode. • Color System: Shows input system format. • Light Usage Time: Shows the number of hours the lamp has been used. • Firmware Version: Shows the firmware version of your projector. • Service Code: Shows the projector's serial number.
Menu Type	Switches to the Advanced OSD menu. See Using the menus on page 26 .

Advanced menu

Picture

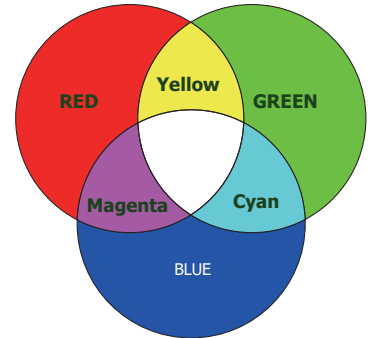
Picture Mode	The projector is preset with several predefined picture modes so that you can choose one to suit your operating environment and input signal picture type. • Bright: Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well-lit rooms. • Living Room: With well-saturated color, fine-tuned sharpness, and a higher brightness level, Living Room mode is suitable for TV streaming in rooms where there is a small amount of ambient light, e.g. your living room. • Cinema: With accurate color and deepest contrast at lower brightness level, Cinema mode is suitable for playing movies in an environment with a bit of ambient light, as if in a commercial cinema. • Game: This mode is best for playing video games in rooms where there is a small amount of ambient light, e.g. your living room. • Sports: With well-saturated colors and higher brightness level, this mode is best for watching sporting events in a bright room. • 3D: Is appropriate for playing 3D images and 3D video clips. • User 1/User 2: Recalls the settings customized based on the current available picture modes. See Reference Mode on page 37.
Reference Mode	There are 2 user-definable modes if the current available picture modes are not suitable for your need. You can use one of the picture modes (except the User 1/User 2) as a starting point and customize the settings. 1. Go to Picture > Picture Mode. 2. Press ◀/▶ to select User 1 or User 2. 3. Press ▼ to highlight Reference Mode, and press ◀/▶ to select a picture mode that is closest to your need. 4. Press ▼ to select a menu item to be changed and adjust the value. The adjustments define the selected user mode.
Fast Mode	Minimizes the response time between the input source and the displayed image. For the optimized latency, when Fast Mode is activated, Keystone/Aspect Ratio will return to the default settings, and Auto Vertical Keystone will be turned off automatically. *Fast Mode can only be enabled for below input timing adopted by most of popular games: - 1080p 60Hz/120Hz/240Hz - 4K 60Hz
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.  Only YUV color space is supported.
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.
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.
Advanced Color Settings	Color Temperature There are several preset color temperature settings available. The available settings may vary according to the signal type selected. When Bright is selected for Picture Mode, the color temperature switches to Native, and cannot be changed. • Normal: Maintains normal colorings for white. • Cool: Makes images appear bluish white. • Warm: Makes images appear reddish white. • Native: With the light source'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.
	Color Temperature Tuning You can also set a preferred color temperature by adjusting the following options. • R Gain/G Gain/B Gain: Adjusts the contrast levels of Red, Green, and Blue. • R Offset/G Offset/B Offset: Adjusts the brightness levels of Red, Green, and Blue.

Color Management

This function 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 **R** (Red), **G** (Green), **B** (Blue), **C** (Cyan), **M** (Magenta), **Y** (Yellow), or **W** (White).
- **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.



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.

- **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.

If you selected **White Balance (W)**, you can adjust the contrast levels of Red, Green, and Blue by selecting **R Gain**, **G Gain**, and **B Gain**.

Gamma Selection

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

- **1.6/1.8/2.0/2.1/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.
- **2.4/2.6:** Best for viewing movies in a dark environment.
- **2.8:** Best for viewing movies which are mostly composed of dark scenes.

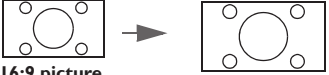
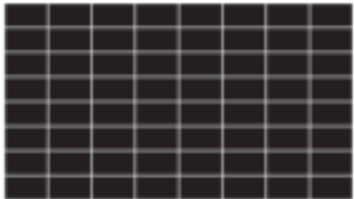
Light Mode

See [Setting the Light Mode on page 45](#).

Reset Picture

Returns all of the adjustments you've made for the **Picture** menu to the factory preset values.

Display

Aspect Ratio	There are several options to set the image's aspect ratio depending on your input signal source. This image adjustment might impact latency in Game mode. We suggest setting Aspect Ratio to Auto to enjoy low latency gaming. • 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.  15:9 picture  4:3 picture  16:9 picture
Keystone	Corrects any keystoneing of the image. See Correcting keystone on page 20.
Auto Vertical Keystone	When selecting Auto Vertical Keystone, projector image will automatically adjust the keystone.
Test Pattern	Adjusts the image size and focus and check that the projected image is free from distortion. 
3D	This projector features a 3D function which enables you to enjoy the 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view the 3D images. • 3D Sync Invert: When you discover the inversion of the image depth, enable this function to correct the problem. • Apply 3D Settings: After the 3D settings are saved, you can decide if you would like to apply them by choosing a set of 3D settings that you have saved. Once applied, the projector will automatically play the incoming 3D contents if it matches the 3D settings saved.  Only the set(s) of 3D settings with memorized data is available. • Save 3D Settings: When you have successfully displayed the 3D contents after making the appropriate adjustments, you can enable this function and choose a set of 3D settings to memorize current 3D settings.

HDMI Format	For HDMI and Android TV sources, selects a suitable color format to optimize display quality. • Auto: Automatically selects a suitable color space and gray level for the incoming HDMI signal. • RGB Limited: Utilizes the Limited range RGB 16-235. • RGB Full: Utilizes the Full range RGB 0-255. • YUV Limited: Utilizes the Limited range YUV 16-235. • YUV Full: Utilizes the Full range YUV 0-255. (HDMI source only)
Reset Display	Returns all of the adjustments you've made for the Display menu to the factory preset values.

Settings

Projector Installation	See Choosing a location on page 16 .
Auto Source Search	Allows the projector to automatically search for a signal.
Light Settings	• Reset Light Timer: See Resetting the Light timer (FOR SERVICE PERSONNEL ONLY) on page 46. • Light Usage Time: Displays the number of hours the lamp has been used.
Operation Settings	Quick Cooling: Selecting On enables the function and projector cooling time will be shortened from a normal 90-second duration to approximately 15 seconds. Reminder Message Sets the reminder messages on or off. 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.

	Power On/Off Settings • Direct Power On: Allows the projector to turn on automatically once the power is fed through the power cord. • Signal Power On: Sets whether to turn the projector directly on without pressing  POWER or  ON when the projector is in standby mode and detects a HDMI signal with 5V power. • Auto Power 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. • Power Off Timer: Sets the auto-shutdown timer. Instant Restart Allows you to restart the projector immediately within 90 seconds after turning it off.
Security Settings	See Utilizing the password function on page 27 .
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.
HDMI Equalizer	Sets a suitable value to maintain the HDMI and Android TV picture quality in long distance data transmission.
Reset Settings	Returns all of the adjustments you've made for the Settings menu to the factory preset values.

System

Language	Sets the language for the On-Screen Display (OSD) menus.
Background Settings	• Background: Sets the background color for the projector. • Splash Screen: Allows you to select which logo screen will be displayed during projector start-up.
Menu Settings	• Menu Type: Switches to the Basic OSD menu. • Menu Display Time: Sets the length of time the OSD will remain active after your last key press.
Audio Settings	• Mute: Temporarily turns off the sound. • Volume: Adjusts the sound level. • Power On/Off Ring Tone: Turns on or off the ring tone when the projector is in startup and shutdown process. The only way to change Power On/Off Ring Tone is setting On or Off here. Setting the sound mute or changing the sound level will not affect the Power On/Off Ring Tone.

Factory Default	Returns all settings to the factory preset values.  The following settings will still remain: Keystone , Auto Vertical Keystone , Projector Installation , Light Usage Time , High Altitude Mode , Security Settings , Baud Rate , HDMI Equalizer .
Reset System	Returns all of the adjustments you've made for the System menu to the factory preset values.

Information

Information	• Native Resolution: Shows the native resolution of the projector. • Detected Resolution: Shows the native resolution of the input signal. • Source: Shows the current signal source. • Picture Mode: Shows the selected mode in the Picture menu. • Light Mode: Shows the selected mode in the Light Settings menu. • 3D Format: Shows the current 3D mode. • Color System: Shows input system format. • Light Usage Time: Shows the number of hours the lamp has been used. • 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 30](#) 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 49](#) 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:

Lamp Usage Time = (hours used in **Normal** mode) + (hours used in **ECO** mode) + (hours used in **SmartEco** mode) + (hours used in **LampSave** mode)

Total (equivalent) lamp hour = 3 x (hours used in **Normal** mode) + 1.5 x (hours used in **ECO** mode) + 1.5 x (hours used in **SmartEco** mode) + 1 x (hours used in **LampSave** mode)

To obtain the lamp hour information:

1. Go to **Advanced Menu - Settings > Light Settings** and press **OK**. The **Light Settings** page appears.
2. Press **▼** to select **Light Usage Time** and press **OK**. The **Light Usage Time** information is displayed.

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

Extending lamp life

• Setting the **Light Mode**

Go to **Advanced Menu - Picture > Advanced Color Settings > Light Mode** and select a suitable lamp power from among the provided modes.

Setting the projector in **ECO**, **SmartEco** or **LampSave** mode extends lamp life.

Light mode	Description
Normal	Provides full lamp brightness
ECO	Lowens brightness to extend the lamp life and decreases the fan noise
SmartEco	Adjusts the lamp power automatically depending on the content brightness level while optimizing display quality
LampSave	Adjusts the lamp power automatically depending on the content brightness level while offering a longer lamp life

• Setting **Auto Power 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 Power Off**, go to **Advanced Menu - Settings > Operation Settings > Power On/Off Settings > Auto Power Off** and press **◀/▶**.

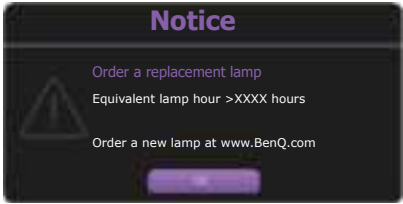
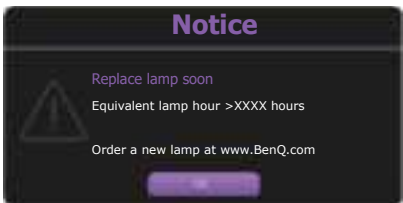
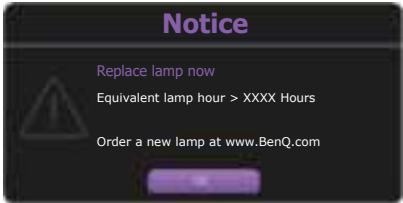
Timing of replacing the lamp

When the **Light indicator** lights up 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 **LIGHT 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 Light or Temp indicator still lights up after turning the power back on, please contact your dealer. See [Indicators on page 47](#).

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

	Install a new lamp for optimal performance. 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.

Resetting the Light timer (FOR SERVICE PERSONNEL ONLY)

After the startup logo, open the On-Screen Display (OSD) menu. Go to **Advanced Menu - Settings > Light Settings** and press **OK**. The **Light Settings** page appears. Highlight **Reset Light Timer** and press **OK**. A warning message is displayed asking if you want to reset the Light timer. Highlight **Reset** and press **OK**. The light 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 ○	LIGHT ○	
Power events			
			Stand-by mode
			Powering up
			Normal operation
			Normal power-down cooling
			Download
			CW start fail
			Data abort, scaler shutdown abnormally
Burn-in events			
			Burn-in on
			Burn-in off
Light events			
			Light life exhausted
			Light door is not closed
			Light error in normal operation
			Light 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)
			Temperature 1 error (over limited temperature)

	○: 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 29 .

Specifications

Projector specifications



All specifications are subject to change without notice.

Optical

Resolution

1920 (H) x 1080 (V)

Display system

1-CHIP DMD

Lens

F = 2.56 ~ 2.68, f = 22 ~ 24.1 mm

Lamp

203 W lamp

Electrical

Power supply

AC100–240V, 3.2 A, 50–60 Hz (Automatic)

Power consumption

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

Mechanical

Weight

2.5 Kg $\pm$ 100g (5.51 $\pm$ 0.22 lbs)

Output terminals

Speaker

10 watt x 1

Audio signal output

PC audio jack x 1

Control

USB

USB Mini-B x 1 (for firmware update)

RS-232 serial control

9 pin x 1

IR receiver x 1

Input terminals

Video signal input

Digital - HDMI x 1 (external)

Digital - HDMI x 1 (internal, for StreamX1 dongle)

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)

Storage temperature

-20°C–60°C at sea level

Storage humidity

10%–90% RH (without condensation)

Storage altitude

30°C@ 0~12,200m above sea level

Transporting

Original packing or equivalent is recommended

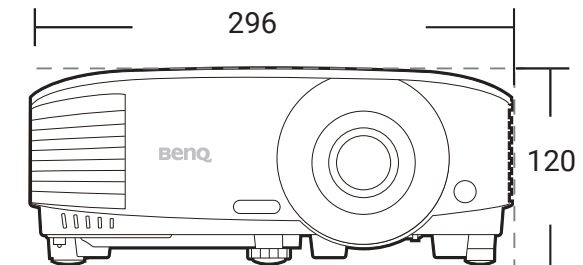
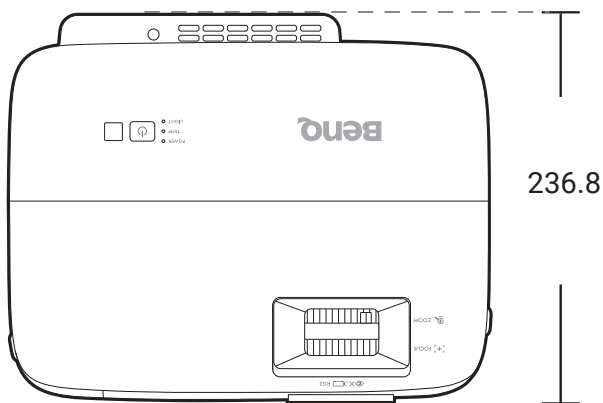
Repairing

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

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

Dimensions

296 mm (W) x 236.8 mm (D) x 120 mm (H)



Unit: mm

Timing chart

Supported timing for HDMI (HDCP) input

• PC timings

Resolution	Mode	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Pixel Frequency (MHz)	Supported 3D format		
					Frame Sequential	Top Bottom	Side by Side
640 x 480	VGA_60	59.940	31.469	25.175	V	V	V
	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	V	V	V
	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	V	V	V
	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	115.5	V		
1152 x 864	1152 x 864_75	75	67.5	108			
1024 x 576@60Hz	BenQ Notebook Timing	60.00	35.820	46.996			
1024 x 600@65Hz	BenQ Notebook Timing	64.995	41.467	51.419			
1280 x 720	1280 x 720_60	60	45.000	74.250	V	V	V
1280 x 768	1280 x 768_60	59.870	47.776	79.5	V	V	V
1280 x 800	WXGA_60	59.810	49.702	83.500	V	V	V
	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	V		
1280 x 1024	SXGA_60	60.020	63.981	108.000		V	V
	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		V	V
	1280 x 960_85	85.002	85.938	148.500			
1360 x 768	1360 x 768_60	60.015	47.712	85.500		V	V
1440 x 900	WXGA+_60	59.887	55.935	106.500		V	V
1400 x 1050	SXGA+_60	59.978	65.317	121.750		V	V
1600 x 1200	UXGA	60.000	75.000	162.000		V	V
1680 x 1050	1680 x 1050_60	59.954	65.290	146.250		V	V
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	V	V	V
1920 x 1200@60Hz	1920 x 1200_60 (Reduce Blanking)	59.95	74.038	154	V	V	V



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.

• Video timings

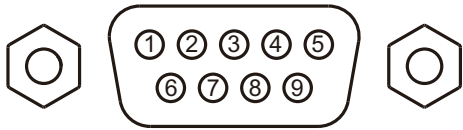
Timing	Resolution	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Pixel Frequency (MHz)	Supported 3D format			
					Frame Sequential	Frame Packing	Top Bottom	Side by Side
480i	720 (1440) x 480	59.94	15.73	27	V			
480p	720 x 480	59.94	31.47	27	V			
576i	720 (1440) x 576	50	15.63	27				
576p	720 x 576	50	31.25	27				
720/50p	1280 x 720	50	37.5	74.25		V	V	V
720/60p	1280 x 720	60	45.00	74.25	V	V	V	V
1080/50i	1920 x 1080	50	28.13	74.25				V
1080/60i	1920 x 1080	60	33.75	74.25				V
1080/24P	1920 x 1080	24	27	74.25		V	V	V
1080/25P	1920 x 1080	25	28.13	74.25				
1080/30P	1920 x 1080	30	33.75	74.25				
1080/50P	1920 x 1080	50	56.25	148.5			V	V
1080/60P	1920 x 1080	60	67.5	148.5			V	V

RS232 command

RS232 pin assignment

No.	Serial
1	NC
2	RX
3	TX
4	NC
5	GND

No.	Serial
6	NC
7	RTSZ
8	CTSZ
9	NC



Function	Type	Operation	ASCII
Power	Write	Power On	<CR>*pow=on#<CR>
	Write	Power Off	<CR>*pow=off#<CR>
	Read	Power Status	<CR>*pow=?#<CR>
Source Selection	Write	HDMI(MHL)	<CR>*sour=hdmi#<CR>
	Write	Smart System	<CR>*sour=smartsystem#<CR>
	Read	Current source	<CR>*sour=?#<CR>
Audio Control	Write	Mute On	<CR>*mute=on#<CR>
	Write	Mute Off	<CR>*mute=off#<CR>
	Read	Mute Status	<CR>*mute=?#<CR>
	Write	Volume +	<CR>*vol=+#<CR>
	Write	Volume -	<CR>*vol=-#<CR>
	Write	Volume level for customer	<CR>*vol=value#<CR>
	Read	Volume Status	<CR>*vol=?#<CR>
Picture Mode	Write	Bright	<CR>*appmod=bright#<CR>
	Write	Living Room	<CR>*appmod=livingroom#<CR>
	Write	Game	<CR>*appmod=game#<CR>
	Write	Cinema (Rec.709)	<CR>*appmod=cine#<CR>
	Write	User1	<CR>*appmod=user1#<CR>
	Write	User2	<CR>*appmod=user2#<CR>
	Write	3D	<CR>*appmod=threed#<CR>
	Write	Sport	<CR>*appmod=sport#<CR>
	Read	Picture Mode	<CR>*appmod=?#<CR>

Picture Setting	Write	Contrast +	<CR>*con=+#<CR>
	Write	Contrast -	<CR>*con=-#<CR>
	Write	Set Contrast value	<CR>*con=value#<CR>
	Read	Contrast value	<CR>*con=?#<CR>
	Write	Brightness +	<CR>*bri=+#<CR>
	Write	Brightness -	<CR>*bri=-#<CR>
	Write	Set Brightness value	<CR>*bri=value#<CR>
	Read	Brightness value	<CR>*bri=?#<CR>
	Write	Sharpness +	<CR>*sharp=+#<CR>
	Write	Sharpness -	<CR>*sharp=-#<CR>
	Write	Set Sharpness value	<CR>*sharp=value#<CR>
	Read	Sharpness value	<CR>*sharp=?#<CR>
	Write	Color Temperature-Warm	<CR>*ct=warm#<CR>
	Write	Color Temperature-Normal	<CR>*ct=normal#<CR>
	Write	Color Temperature-Cool	<CR>*ct=cool#<CR>
	Write	Color Temperature-lamp native	<CR>*ct=ative#<CR>
	Read	Color Temperature Status	<CR>*ct=?#<CR>
	Write	Aspect 4:3	<CR>*asp=4:3#<CR>
Picture Setting (Continued)	Write	Aspect 16:9	<CR>*asp=16:9#<CR>
	Write	Aspect Auto	<CR>*asp=AUTO#<CR>
	Read	Aspect Status	<CR>*asp=?#<CR>
	Write	Vertical Keystone +	<CR>*vkeystone=+#<CR>
	Write	Vertical Keystone -	<CR>*vkeystone=-#<CR>
	Read	Vertical Keystone value	<CR>*vkeystone=?#<CR>
	Write	Brilliant color on	<CR>*BC=on#<CR>
	Write	Brilliant color off	<CR>*BC=off#<CR>
	Read	Brilliant color status	<CR>*BC=?#<CR>
Operation Settings	Write	Projector Position-Front Table	<CR>*pp=FT#<CR>
	Write	Projector Position-Rear Table	<CR>*pp=RE#<CR>
	Write	Projector Position-Rear Ceiling	<CR>*pp=RC#<CR>
	Write	Projector Position-Front Ceiling	<CR>*pp=FC#<CR>
	Read	Projector Position Status	<CR>*pp=?#<CR>
	Write	Quick cooling on	<CR>*qcool=on<CR>
	Write	Quick cooling off	<CR>*qcool=off<CR>
	Read	Quick cooling status	<CR>*qcool=?#<CR>
	Write	Quick auto search on	<CR>*QAS=on#<CR>
	Write	Quick auto search off	<CR>*QAS=off#<CR>
	Read	Quick auto search status	<CR>*QAS=?#<CR>
	Write	Direct Power On-on	<CR>*directpower=on#<CR>
	Write	Direct Power On-off	<CR>*directpower=off#<CR>
	Read	Direct Power On-Status	<CR>*directpower=?#<CR>
	Write	Signal Power On-on	<CR>*autopower=on#<CR>
	Write	Signal Power On-off	<CR>*autopower=off#<CR>
	Read	Signal Power On-Status	<CR>*autopower=?#<CR>
Baud Rate	Write	9600	<CR>*baud=9600#<CR>
	Write	14400	<CR>*baud=14400#<CR>
	Write	19200	<CR>*baud=19200#<CR>
	Write	38400	<CR>*baud=38400#<CR>
	Write	57600	<CR>*baud=57600#<CR>
	Write	115200	<CR>*baud=115200#<CR>
	Read	Current Baud Rate	<CR>*baud=?#<CR>

Lamp Control	Read	Lamp	<CR>*ltim=?#<CR>
	Write	Normal mode	<CR>*lampm=lnor#<CR>
	Write	Eco mode	<CR>*lampm=eco#<CR>
	Write	SmartEco mode	<CR>*lampm=seco#<CR>
	Write	SmartEco mode 2	<CR>*lampm=seco2#<CR>
	Read	Lamp Mode Status	<CR>*lampm=?#<CR>
Miscellaneous	Read	Model Name	<CR>*modelname=?#<CR>
	Read	System F/W Version	<CR>*sysfwversion=?#<CR>
	Write	Blank On	<CR>*blank=on#<CR>
	Write	Blank Off	<CR>*blank=off#<CR>
	Read	Blank Status	<CR>*blank=?#<CR>
	Write	Menu On	<CR>*menu=on#<CR>
	Write	Menu Off	<CR>*menu=off#<CR>
	Read	Menu Status	<CR>*menu=?#<CR>
	Write	Up	<CR>*up#<CR>
	Write	Down	<CR>*down#<CR>
	Write	Right	<CR>*right#<CR>
	Write	Left	<CR>*left#<CR>
	Write	Enter	<CR>*enter#<CR>
	Write	Back	<CR>*back#<CR>
	Write	Source Menu On	<CR>*sourmenu=on#<CR>
	Write	Source Menu Off	<CR>*sourmenu=off#<CR>
	Read	Source Menu Status	<CR>*sourmenu=?#<CR>
	Write	3D Sync Off	<CR>*3d=off#<CR>
	Write	3D Auto	<CR>*3d=auto#<CR>
	Write	3D Sync Top Bottom	<CR>*3d=tb#<CR>
	Write	3D Sync Frame Sequential	<CR>*3d=fs#<CR>
	Write	3D Frame packing	<CR>*3d=fp#<CR>
	Write	3D Side by side	<CR>*3d=sbs#<CR>
	Write	3D inverter disable	<CR>*3d=da#<CR>
	Write	3D inverter	<CR>*3d=iv#<CR>
	Read	3D Sync Status	<CR>*3d=?#<CR>
	Write	Instant On-on	<CR>*ins=on#<CR>
	Write	Instant On-off	<CR>*ins=off#<CR>
	Read	Instant On Status	<CR>*ins=?#<CR>
	Write	High Altitude mode on	<CR>*Highaltitude=on#<CR>
	Write	High Altitude mode off	<CR>*Highaltitude=off#<CR>
	Read	High Altitude mode status	<CR>*Highaltitude=?#<CR>

Color Calibration (only for service)	Write	Red Gain +	<CR>*RGain=+#<CR>
	Write	Red Gain -	<CR>*RGain=-#<CR>
	Write	Set Red Gain value	<CR>*RGain=value#<CR>
	Read	Get Red Gain value	<CR>*RGain=?#<CR>
	Write	Green Gain +	<CR>*GGain=+#<CR>
	Write	Green Gain -	<CR>*GGain=-#<CR>
	Write	Set Green Gain value	<CR>*GGain=value#<CR>
	Read	Get Green Gain value	<CR>*GGain=?#<CR>
	Write	Blue Gain +	<CR>*BGain=+#<CR>
	Write	Blue Gain -	<CR>*BGain=-#<CR>
	Write	Set Blue Gain value	<CR>*BGain=value#<CR>
	Read	Get Blue Gain value	<CR>*BGain=?#<CR>
	Write	Red Offset +	<CR>*ROffset=+#<CR>
	Write	Red Offset -	<CR>*ROffset=-#<CR>
	Write	Set Red Offset value	<CR>*ROffset=value#<CR>
	Read	Get Red Offset value	<CR>*ROffset=?#<CR>
	Write	Green Offset +	<CR>*GOffset=+#<CR>
	Write	Green Offset -	<CR>*GOffset=-#<CR>
	Write	Set Green Offset value	<CR>*GOffset=value#<CR>
	Read	Get Green Offset value	<CR>*GOffset=?#<CR>
	Write	Blue Offset +	<CR>*BOffset=+#<CR>
	Write	Blue Offset -	<CR>*BOffset=-#<CR>
	Write	Set Blue Offset value	<CR>*BOffset=value#<CR>
	Read	Get Blue Offset value	<CR>*BOffset=?#<CR>
	Write	Primary Color	<CR>*primcr=value#<CR>
	Read	Primary Color Status	<CR>*primcr=?#<CR>
	Write	Hue +	<CR>*hue=+#<CR>
	Write	Hue -	<CR>*hue=-#<CR>
	Write	Set Hue value	<CR>*hue=value#<CR>
	Read	Get Hue value	<CR>*hue=?#<CR>
	Write	Saturation +	<CR>*saturation =+#<CR>
	Write	Saturation -	<CR>*saturation =-#<CR>
	Write	Set Saturation value	<CR>*saturation =value#<CR>
	Read	Get Saturation value	<CR>*saturation =?#<CR>
	Write	Gain +	<CR>*gain=+#<CR>
	Write	Gain -	<CR>*gain=-#<CR>
	Write	Set Gain value	<CR>*gain=value#<CR>
	Read	Get Gain value	<CR>*gain=?#<CR>
Service (Only for service)	Write	Service mode enable for error report	<CR>*error=enable#<CR>
	Read	Error code report	<CR>*error=report#<CR>
	Read	FAN 1 speed	<CR>*fan1=?#<CR>
	Read	FAN 2 speed	<CR>*fan2=?#<CR>
	Read	FAN 3 speed	<CR>*fan3=?#<CR>
	Read	Temperature 1	<CR>*tmp1=?#<CR>
	Read	LED indicator	<CR>*led=?#<CR>