USA's primary source for projector lamps
myprojectorlamps

PROJECTOR OWNER'S MANUAL

BenQ

MX806PST

Need a replacement lamp for this projector?

www.myprojectorlamps.com

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MX806PST

Digital Projector

User Manual

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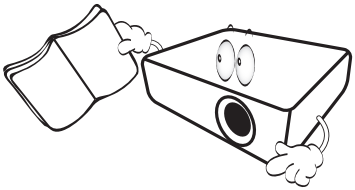
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Important safety instructions

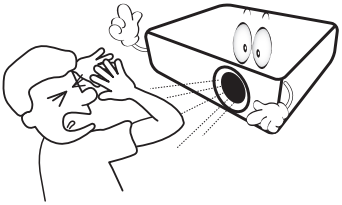
Your projector is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that you follow the instructions mentioned in this manual and marked on the product.

Safety Instructions

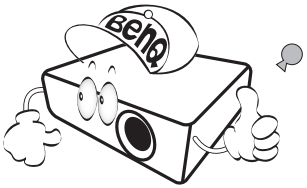
1. **Please read this manual before you operate your projector.** Save it for future reference.



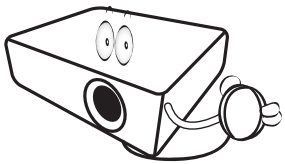
2. **Do not look straight at the projector lens during operation.** The intense light beam may damage your eyes.



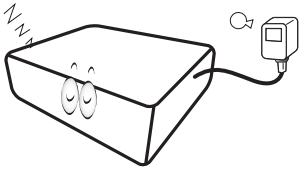
3. **Refer servicing to qualified service personnel.**



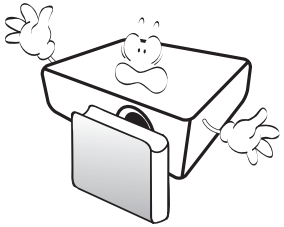
4. **Always open the lens shutter (if any) or remove the lens cap (if any) when the projector lamp is on.**



5. 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).**

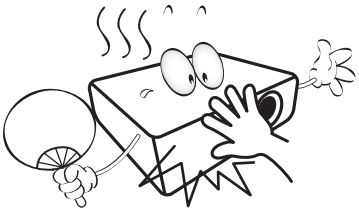


6. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire. To temporarily turn off the lamp, press **ECO BLANK**.

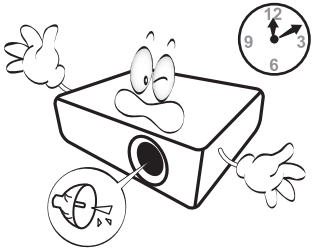


Safety Instructions (Continued)

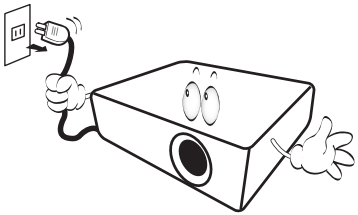
7. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.



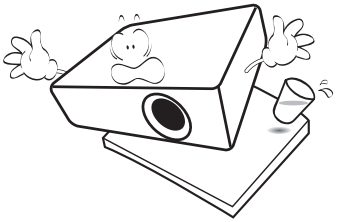
8. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause them to break on rare occasions.



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

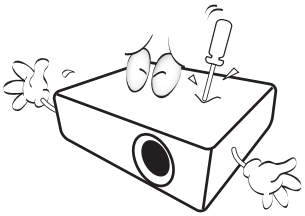


10. Do not place this product on an unstable cart, stand, or table. The product may fall, sustaining serious damage.



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.

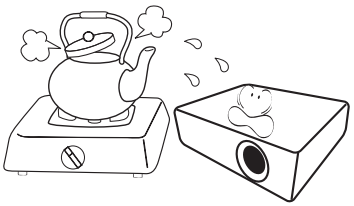
    Under no circumstances should you ever undo or remove any other covers. Refer servicing only to suitably qualified professional service personnel.



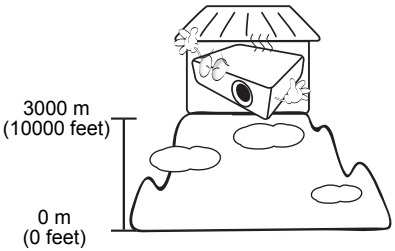
12. When the projector is under operation, you may sense some heated air and odor from its ventilation grill. It is a normal phenomenon and not a product defect.

Safety Instructions (Continued)

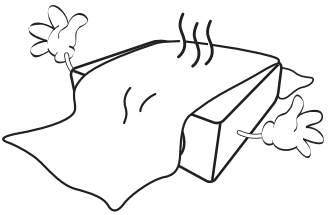
13. Do not place this projector in any of the following environments.
    - Space that is poorly ventilated or confined. Allow at least 50 cm clearance from walls and free flow of air around the projector.
    - Locations where temperatures may become excessively high, such as the inside of a car with 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).

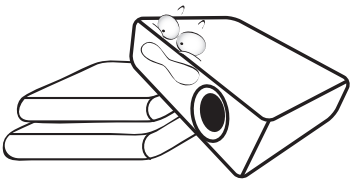


14. Do not block the ventilation holes.
    - Do not place this projector on a blanket, bedding or any other soft surface.
    - Do not cover this projector with a cloth or any other item.
    - Do not place inflammables near the projector.

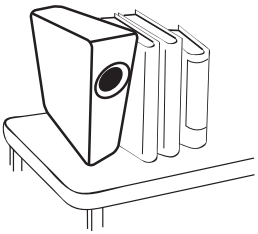


    If the ventilation holes are seriously obstructed, overheating inside the projector may result in a fire.

15. 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.

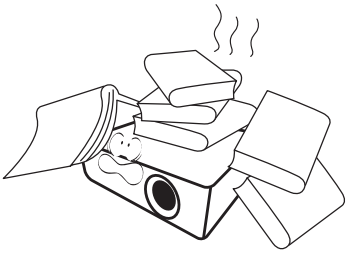


16. Do not stand the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage to the projector.

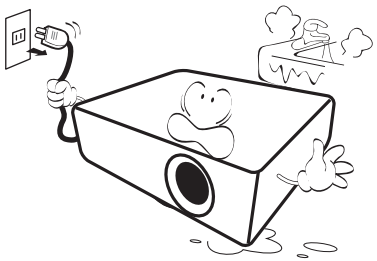


Safety Instructions (Continued)

17. 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.

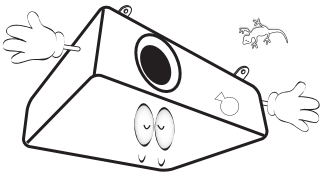


18. Do not place liquids near or on the projector. Liquids spilled into the projector may cause it to fail. If the projector does become wet, disconnect it from the power supply's power outlet and call BenQ to have the projector serviced.



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

⚠ Use only BenQ's Ceiling Mount Kit for mounting the projector and ensure it is securely installed.



20. This apparatus must be earthed.

⚠ Ceiling mounting the projector

We want you to have a pleasant experience using your BenQ projector, so we need to bring this safety matter to your attention to prevent possible damage to person and property.

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

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

You can purchase a BenQ projector ceiling mount 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 ceiling mount bracket. This will perform the secondary role of restraining the projector should its attachment to the mounting bracket become loose.

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

Introduction

Projector features

The projector offers the following features.

- **Less than 0.5W in standby condition**
  Less than 0.5W power consumption under standby mode.
- **Filter Free**
  Filter free design to lower maintenance and operating costs.
- **One-key auto-adjustment**
  Pressing **AUTO** on the keypad or remote control to show the best picture quality immediately.
- **Brilliant color/VIDI**
  Provides truer, more vibrant colors in picture.
- **Quick Cooling, Auto Power Off, Signal Power On, Direct Power On**
  Quick Cooling function speeds up the cooling process when turning off the projector. **Auto Power Off** function allows the projector to turn off automatically if no input signal is detected after a set period of time. **Signal Power On** function turns on your projector automatically once detecting the signal input and **Direct Power On** boots up the projector automatically when the power is connected.
- **Instant Restart**
  Selectable **Instant Restart** function enables you to restart the projector immediately within 90 seconds after turning it off.
- **3D Function supported**
  Various 3D formats make the 3D function more flexible.

☞
- 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.

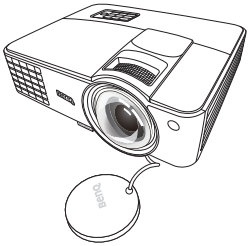
Shipping contents

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.

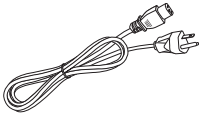
Standard accessories

The supplied accessories will be suitable for your region, and may differ from those illustrated.

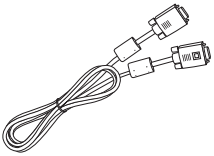
*The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.



Projector



Power cord



VGA cable



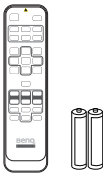
Quick start guide



User manual CD



Warranty card*



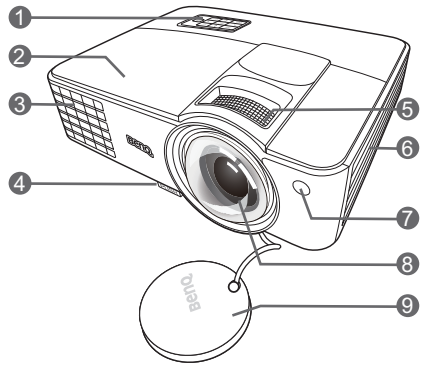
Remote control with batteries

Optional accessories

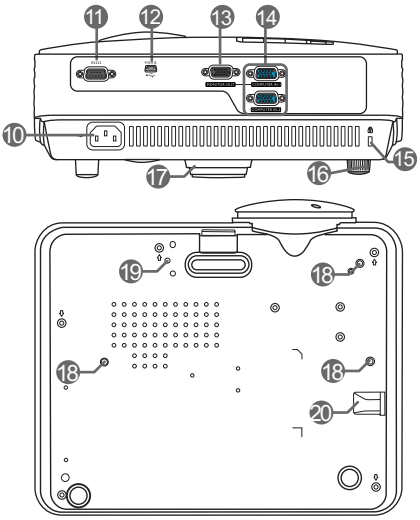
1. Spare lamp kit
2. Ceiling mount kit
3. 3D glasses
4. RS232 cable
5. Carry bag

Projector exterior view

Front/upper side



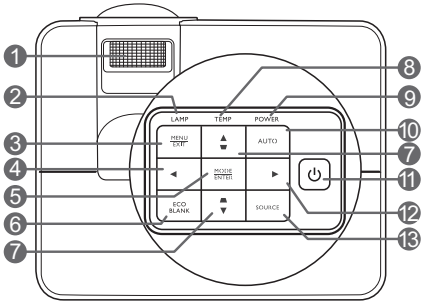
Rear/lower side



1. External control panel (See "Controls and functions" on page 10 for details.)
2. Lamp cover
3. Vent (heated air exhaust)
4. Quick-release button
5. Focus ring
6. Vent (cool air intake)
7. Front IR remote sensor
8. Projection lens
9. Lens cap
10. AC power jack
11. RS232 control port
12. USB mini B type port
13. RGB signal output jack
14. RGB (PC) signal input jack
15. Kensington anti-theft lock slot
16. Rear adjuster foot
17. Front adjuster foot
18. Ceiling mount holes
19. PointWrite module mounting hole
20. Security bar

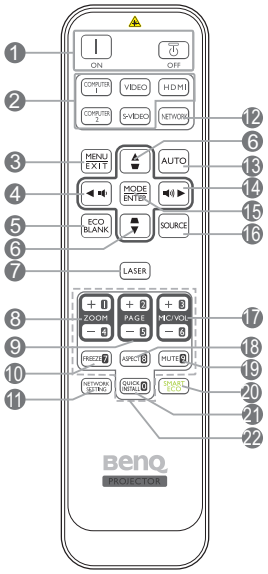
Controls and functions

Projector



1. **Focus ring**
   Adjusts the focus of the projected image.
2. **LAMP indicator light**
   Indicates the status of the lamp. Lights up or flashes when the lamp has developed a problem.
3. **MENU/EXIT**
   Turns on the On-Screen Display (OSD) menu. Goes back to previous OSD menu, exits and saves menu settings.
4. **◀ Left**
5. **MODE/ENTER**
   Selects an available picture setup mode. Activates the selected On-Screen Display (OSD) menu item.
6. **ECO BLANK**
   Used to hide the screen picture.
7. **Keystone/Arrow keys (▽ / ▲ Up, △ / ▼ Down)**
   Manually corrects distorted images resulting from an angled projection.
8. **TEMP (Temperature) warning light**
   Lights up red if the projector's temperature becomes too high.
9. **POWER indicator light**
   Lights up or flashes when the projector is under operation.
10. **AUTO**
    Automatically determines the best picture timings for the displayed image.
11. **⏻ POWER**
    Toggles the projector between standby mode and on.
12. **► Right**
    When the On-Screen Display (OSD) menu is activated, the #4, #7, and #12 keys are used as directional arrows to select the desired menu items and to make adjustments.
13. **SOURCE**
    Displays the source selection bar.

Remote control



1. **ON/ OFF**
   Toggles the projector between standby mode and on.
2. **Source selection buttons: only COMPUTER1/COMPUTER2 are available.**
3. **MENU/EXIT**
   Turns on the On-Screen Display (OSD) menu. Goes back to previous OSD menu, exits and saves menu settings.
4. **◀ Left/**
5. **ECO BLANK**
   Used to hide the screen picture.
6. **Keystone/Arrow keys (/ ▲Up, / ▼ Down)**
   Manually corrects distorted images resulting from an angled projection.
7. **LASER**
   Emits visible laser pointer light for presentation purposes.
8. **ZOOM+/ZOOM-**
   Magnifies or reduces the projected picture size.
9. **PAGE +/PAGE -**
   Operate your display software program (on a connected PC) which responds to page up/down commands (like Microsoft PowerPoint).
10. **FREEZE**
    Freezes the projected image.
11. **NETWORK SETTING**
    (No function.).
12. **NETWORK**
    (No function.)
13. **AUTO**
    Automatically determines the best picture timings for the displayed image.

14. **▶ Right/ 🔊**
When the On-Screen Display (OSD) menu is activated, the #4, #6, and #14 keys are used as directional arrows to select the desired menu items and to make adjustments.

15. **MODE/ENTER**
Selects an available picture setup mode. Activates the selected On-Screen Display (OSD) menu item.

16. **SOURCE**
Displays the source selection bar.

17. **MIC/VOL +/MIC/VOL -**
(No function.)

18. **ASPECT**
Selects the display aspect ratio.

19. **MUTE**
(No function.)

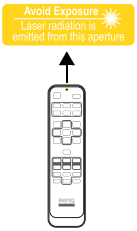
20. **SMART ECO**
Displays the **Lamp Mode** menu for selecting a suitable lamp operating mode.

21. **QUICK INSTALL**
Quickly selects several functions to adjust the projected image and displays the test pattern.

22. **Numeric buttons**
(No function.)

Operating the LASER pointer

The Laser Pointer is a presentation aid for professionals. It emits red colored light when you press it.



The laser beam is visible. It is necessary to press and hold **LASER** for continuous output.

⚠ Do not look into the laser light window or shine the laser light beam on yourself or others. See the warning messages on the back of the remote control prior to using it.

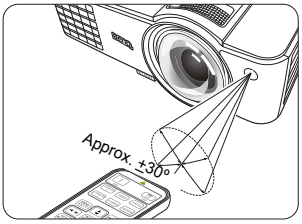
The laser pointer is not a toy. Parents should be mindful of the dangers of laser energy and keep this remote control out of the reach of children.

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).

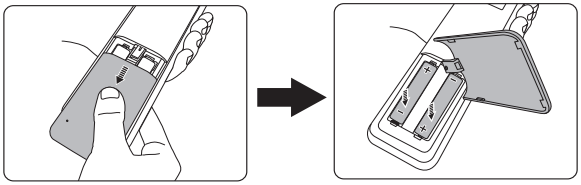
Make sure that there are no obstacles between the remote control and the IR sensor(s) on the projector that might obstruct the infra-red beam.

- Operating the projector from the front



Replacing the remote control batteries

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

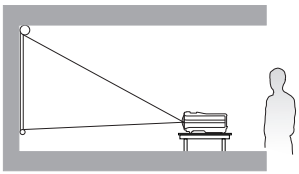
Positioning your projector

Choosing a location

Your projector is designed to be installed in one of four possible installation locations:

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.

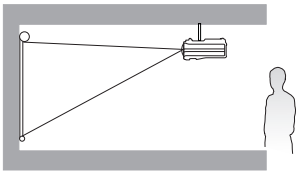


2. Front Ceiling

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.

Set **Front Ceiling** in the **SYSTEM SETUP: Basic** > **Projector Installation** menu after you turn the projector on.

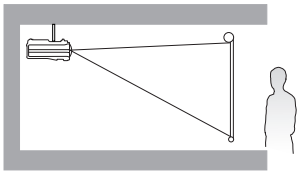


3. Rear Ceiling

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.

Set **Rear Ceiling** in the **SYSTEM SETUP: Basic** > **Projector Installation** menu after you turn the projector on.

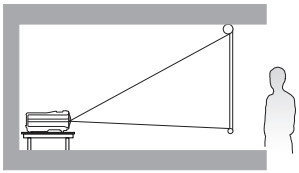


4. Rear Table

Select this location with the projector placed on the table behind the screen.

Note that a special rear projection screen is required.

Set **Rear Table** in the **SYSTEM SETUP: Basic** > **Projector Installation** menu after you turn the projector on.



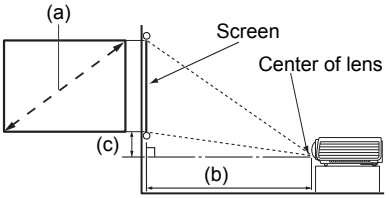
Your room layout or personal preference will dictate which installation location you select. Take into consideration the size and position of your screen, the location of a suitable power outlet, as well as the location and distance between the projector and the rest of your equipment.

Obtaining a preferred projected image size

The distance from the projector lens to the screen, the zoom setting, and the content format each factors in the projected image size.

Projection dimensions

Refer to "Dimensions" on page 52 for the center of lens dimensions of this projector before calculating the appropriate position.



The screen aspect ratio is 4:3 and the projected picture is in a 4:3 aspect ratio

(a) Screen size				(b) Distance from screen (mm)	(c) Vertical offset (mm)
Diagonal		Height (mm)	Width (mm)		
Inches	mm				
60	1524	914	1219	744	137
80	2032	1219	1626	992	183
100	2540	1524	2032	1240	229
120	3048	1829	2438	1487	274
150	3810	2286	3048	1859	343
180	4572	2743	3658	2231	411
200	5080	3048	4064	2479	457
220	5588	3353	4470	2727	503
240	6096	3658	4877	2975	549
270	6858	4115	5486	3346	617
300	7620	4572	6096	3719	686

For example, if you are using an 120-inch screen, the recommended projection distance is 1487 mm and the vertical offset is 274 mm.

If your measured projection distance is 2.5 m (2500 mm), the closest match in the "(b) Distance from screen" column is 2479 mm. Looking across this row shows that a 200" (about 5.1 m) screen is required.

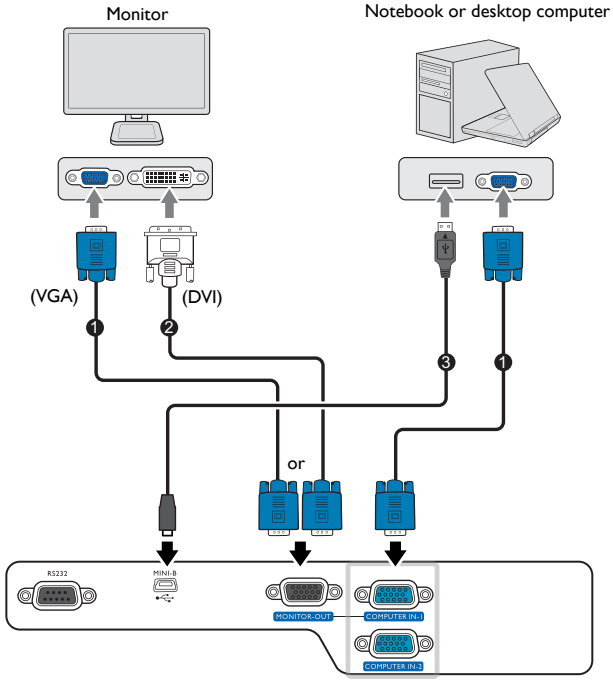
All measurements are approximate and may vary from the actual sizes.
BenQ recommends that if you intend to permanently install the projector, you should physically test the projection size and distance using the actual projector in situ before you permanently install it, so as to make allowance for this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

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 shown below, some cables may not be included with the projector (see "Shipping contents" on page 8). They are commercially available from electronics stores.
- The connection illustrations below are for reference only. The rear connecting jacks available on the projector vary with each projector model.



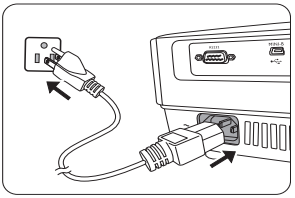
1. VGA cable
2. VGA to DVI-A cable
3. USB cable

- Many notebooks do not turn on their external image output ports when connected to a projector. Usually a key combo like FN + F3 or CRT/LCD key turns the external display on/off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol on the notebook. Press FN and the labeled function key simultaneously. Refer to your notebook's documentation to find your notebook's key combination.
- The D-Sub output only works when an appropriate D-Sub input is made to the **COMPUTER-1** jack.
- If you wish to use this connection method when the projector is in standby mode, make sure the **Monitor Out** function is turned on in the **SYSTEM SETUP: Advanced** menu. See "Standby Settings" on page 41 for details.

Operation

Starting up the projector

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



Please use the original accessories (e.g. power cord) only with the device to avoid possible dangers such as electric shock and fire.

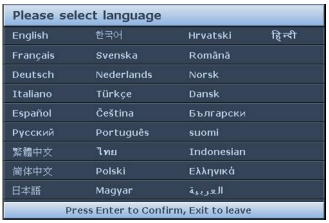
2. Press **POWER** or **ON** to start the projector. The **POWER indicator light** flashes green and stays green when the projector is on.

   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.

If the projector is still hot from previous activity, it will run the cooling fan for approximately 90 seconds before energizing the lamp.

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 six-digit password. See "Utilizing the password function" on page 21 for details.
5. Switch all of the connected equipment on.
6. The projector will start to search for input signals. The current input signal being scanned displays in the upper left corner of the screen. If the projector doesn't detect a valid signal, the message “No Signal” will continue displaying until an input signal is found.

   You can also press **SOURCE** on the projector or remote control to select your desired input signal. See "Switching input signal" on page 23 for details.

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 56 for details.

Adjusting the projected image

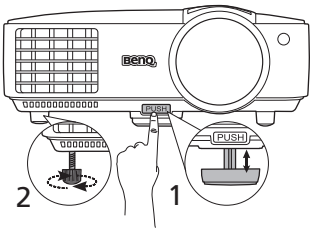
Adjusting the projection angle

To adjust the projector:

1. Press the quick-release button and lift the front of the projector. Once the image is positioned where you want it, release the quick-release button to lock the foot in position.
2. Screw the rear adjuster foot to fine-tune the horizontal angle.

To retract the foot, hold up the projector while pressing the quick-release button, then slowly lower the projector. Screw the rear adjuster foot in a reverse direction.

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. To correct this situation, see "Correcting keystone" on page 19 for details.



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

Be careful when you press the quick-release button as it is close to the exhaust vent where hot air comes from.

Auto-adjusting the image

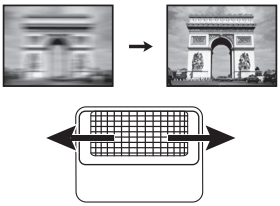
In some cases, you may need to optimize the picture quality. To do this, press **AUTO** on the projector or remote control. Within 3 seconds, the built-in Intelligent Auto Adjustment function will re-adjust the values of Frequency and Clock to provide the best picture quality.

The current source information will be displayed in the corner of the screen for 3 seconds.

This function is only available when PC signal (analog RGB) is selected.

Fine-tuning the image clarity

Sharpen the image by rotating the focus ring.



Correcting keystone

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

To correct this, follow ONE of these steps:

- Press ⏢ / ⏣ on the projector or remote control to display the Keystone correction page. Press ⏢ to correct keystoning at the top of the image. Press ⏣ to correct keystoning at the bottom of the image.



Press ⏢ / ▼. Press ⏣ / ▲.

- Using the OSD menu

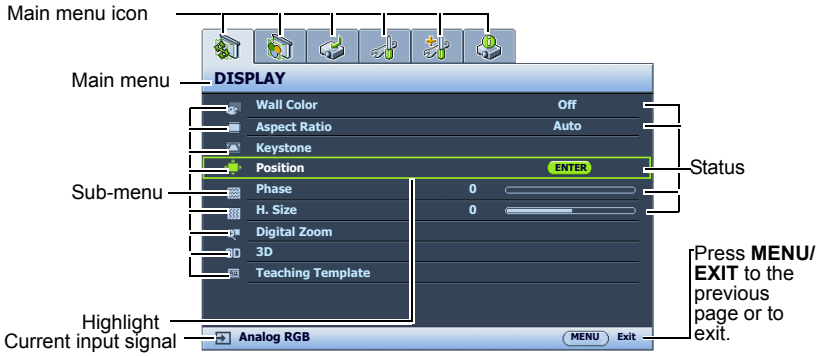
1. Press **MENU/EXIT** and then press ◀/▶ until the **DISPLAY** menu is highlighted.
2. Press ▼ to highlight **Keystone** and press **MODE/ENTER**. The **Keystone** correction page displays.
3. Press ⏢ to correct keystoning at the top of the image. Press ⏣ to correct keystoning at the bottom of the image.

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.

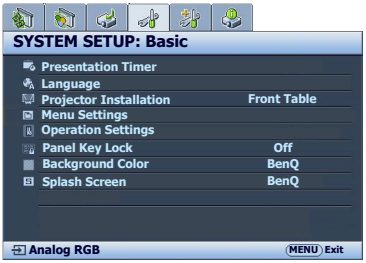


The following example describes how to set the OSD language.

1. Press **MENU/EXIT** on the projector or remote control to turn the OSD menu on.



2. Use ◀ / ▶ to highlight the **SYSTEM SETUP: Basic** menu.



3. Press ▼ to highlight **Language** and press **MODE/ENTER**.



4. Press ◀ / ▶ / ▲ / ▼ to select a preferred language and press **MODE/ENTER**.
5. Press **MENU/EXIT** on the projector or remote control to leave and save the settings.

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 15 on page 9 for details.

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

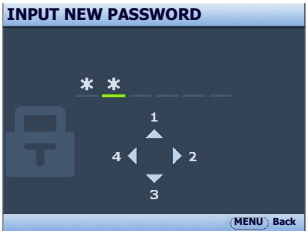
For security purposes and to help prevent unauthorized use, the projector includes an option for setting up password security. The password can be set through the On-Screen Display (OSD) menu.

WARNING: You will be inconvenienced if you activate the password functionality and subsequently forget the password. Print out this manual (if necessary) and write the password you used in this manual, and keep the manual in a safe place for later recall.

Setting a password

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.

1. Open the OSD menu and go to the **SYSTEM SETUP: Advanced** > **Security Settings** menu. Press **MODE/ENTER**. The **Security Settings** page displays.
2. Highlight **Change Security Settings** and press **MODE/ENTER**.
3. As pictured to the right, 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.



Do not press the numeric buttons when asked to enter 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**. When the **Power On Lock** function is activated, you have to enter the correct password to turn on the projector.

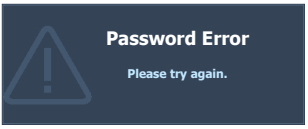
IMPORTANT: The digits being input will display as asterisks on-screen. Write your selected password down here in this manual in advance or right after the password is entered so that it is available to you should you ever forget it.

Password: __ __ __ __ __ __

Keep this manual in a safe place.

6. To leave the OSD menu, press **MENU/EXIT.**

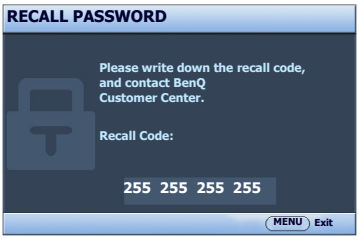
If you forget the password



If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right will appear, and the **INPUT PASSWORD** message follows. You can retry by entering another six-digit password, or if you did not record the password in this manual, and you absolutely do not remember it, you can use the password recall procedure. See "Entering the password recall procedure" on page 22 for details.

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 **AUTO** on the projector or remote control 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. Open the OSD menu and go to the **SYSTEM SETUP: Advanced**> **Security Settings** > **Change Password** menu.
2. Press **MODE/ENTER**. The message **"INPUT CURRENT PASSWORD"** appears.
3. Enter the old password.
   i. If the password is correct, another message **"INPUT NEW PASSWORD"** displays.
   ii. If the password is incorrect, the password error message will appear, and the message **"INPUT CURRENT PASSWORD"** displays for your retry. You can press **MENU/EXIT** to cancel the change or try another password.
4. Enter a new password.

IMPORTANT: The digits being input will display as asterisks on-screen. Write your selected password down here in this manual in advance or right after the password is entered so that it is available to you should you ever forget it.

Password: __ __ __ __ __ __

Keep this manual in a safe place.

5. Confirm the new password by re-entering the new password.
6. You have successfully assigned a new password to the projector. Remember to enter the new password next time the projector is started.
7. To leave the OSD menu, press **MENU/EXIT.**

Disabling the password function

To disable password protection, go back to the **SYSTEM SETUP: Advanced** > **Security Settings > Change Security Settings** menu after opening the OSD menu system. Press **MODE/ENTER.** The message **"INPUT PASSWORD"** displays. Enter the current password.

i. If the password is correct, the OSD menu returns to the **Security Settings** page.
   Press ▼ to highlight **Power On Lock** and press ◀/▶ to select **Off**. You will not have to enter the password next time when turning on the projector.

ii. If the password is incorrect, the password error message will appear, and the message **"INPUT PASSWORD"** displays for your retry. You can press **MENU/EXIT** to cancel the change or try another password.

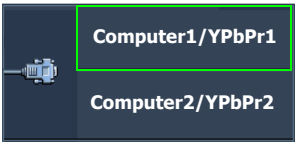
Though the password function is disabled, you need to keep the old password in hand should you ever need to re-activate the password function by entering the old password.

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 **Quick Auto Search** function in the **SOURCE** menu is **On** if you want the projector to automatically search for the signals.

To select the source:



1. Press **SOURCE** on the projector or remote control. A source selection bar displays.
2. Press ▲/▼ until your desired signal is selected and press **MODE/ENTER**.
   Once detected, the selected source information will display 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.
- The native display resolution of this projector is in a 4:3 aspect ratio. For best display picture results, you should select and use an input signal which outputs at this resolution. Any other resolutions will be scaled by the projector depending upon the "aspect ratio" setting, which may cause some image distortion or loss of picture clarity. See "Selecting the aspect ratio" on page 24 for details.

Magnifying and searching for details

If you need to find the details on the projected picture, magnify the picture. Use the direction arrow keys for navigating the picture.

- Using the remote control

1. Press **ZOOM+**/**ZOOM-** to display the Zoom bar. Press **ZOOM+** to magnify the center of the picture. Press the key repeatedly until the picture size is suitable for your need.
2. Use the directional arrows (▲, ▼, ◄, ►) on the projector or remote control to navigate the picture.
3. To restore the picture to its original size, press **AUTO**. You can also press **ZOOM-**. When the key is pressed again, the picture is further reduced until it is restored to the original size.

- Using the OSD menu

1. Press **MENU/EXIT** and then press ◄/► until the **DISPLAY** menu is highlighted.
2. Press ▼ to highlight **Digital Zoom** and press **MODE/ENTER**. The Zoom bar displays.
3. Press ▲ repeatedly to magnify the picture to a desired size.
4. To navigate the picture, press **MODE/ENTER** to switch to the panning mode and press the directional arrows (▲, ▼, ◄, ►) on the projector or remote control to navigate the picture.
5. To reduce size of the picture, press **MODE/ENTER** to switch back to the zoom in/out function, and press **AUTO** to restore the picture to its original size. You can also press ▼ repeatedly until it is restored to the original size.

☞ The picture can only be navigated after it is magnified. You can further magnify the picture while searching for details.

Selecting the aspect ratio

The “aspect ratio” is the ratio of the image width to the image height.

With the advent of digital signal processing, digital display devices like this projector can dynamically stretch and scale the image output to a different aspect than that of the image input signal.

To change the projected picture ratio (no matter what aspect the source is):

- Using the remote control

1. Press **ASPECT** to show the current setting.
2. Press **ASPECT** repeatedly to select an aspect ratio to suit the format of your display requirements.

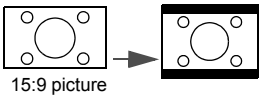
- Using the OSD menu

1. Press **MENU/EXIT** and then press ◄/► until the **DISPLAY** menu is highlighted.
2. Press ▼ to highlight **Aspect Ratio**.
3. Press ◄/► to select an aspect ratio to suit the format of your display requirements.

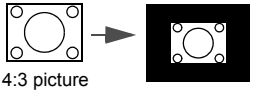
About the aspect ratio

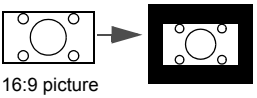
- In the pictures below, the black portions are inactive areas and the white portions are active areas.
- OSD menus can be displayed on those unused black areas.

1. **Auto**: Scales an image proportionally to fit the projector's native resolution in its horizontal or vertical width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.

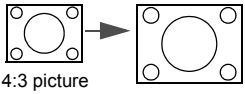


2. **Real**: The image is projected as its original resolution, and resized to fit within the display area. For input signals with lower resolutions, the projected image will display smaller than if resized to full screen. You could adjust the zoom setting or move the projector towards the screen to increase the image size if necessary. You may also need to refocus the projector after making these adjustments.

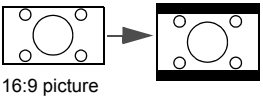




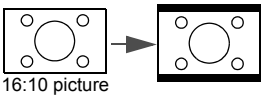
3. **4:3**: Scales an image so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 images like some computer monitors, as it displays them without aspect alteration.



4. **16:9**: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This is most suitable for images which are already in a 16:9 aspect, like high definition TV, as it displays them without aspect alteration.



5. **16:10**: Scales an image so that it is displayed in the center of the screen with a 16:10 aspect ratio. This is most suitable for images which are already in a 16:10 aspect, as it displays them without aspect alteration.



Optimizing the image

Using Wall Color

In the situation where you are projecting onto a colored surface such as a painted wall which may not be white, the Wall Color feature can help correct the projected picture's colors to prevent possible color difference between the source and projected pictures.

To use this function, go to the **DISPLAY** > **Wall Color** menu and press ◀/▶ to select a color which is closest to the color of the projection surface. There are several precalibrated colors to choose from: **Light Yellow**, **Pink**, **Light Green**, **Blue**, and **Blackboard**.

Selecting a 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.

To select an operation mode that suits your need, you can follow one of the following steps.

- Press **MODE/ENTER** on the projector or remote control repeatedly until your desired mode is selected.
- Go to the **PICTURE** > **Picture Mode** menu and press ◀/▶ to select a desired mode.

1. **Dynamic mode**: 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.
2. **Presentation mode**: Is designed for presentations. The brightness is emphasized in this mode to match PC and notebook coloring.
3. **sRGB mode**: Maximizes the purity of RGB colors to provide true-to-life images regardless of brightness setting. It is most suitable for viewing photos taken with an sRGB compatible and properly calibrated camera, and for viewing PC graphic and drawing applications such as AutoCAD.
4. **Cinema mode**: Is appropriate for playing colorful content from digital cameras or DVs through the PC input for best viewing in a blackened (little light) environment.
5. **3D mode**: Is appropriate for playing 3D content.
6. **User 1/User 2 mode**: Recalls the settings customized based on the current available picture modes. See "Setting the User 1/User 2 mode" on page 26 for details.

Setting the User 1/User 2 mode

There are two 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 1/2**) as a starting point and customize the settings.

1. Press **MENU/EXIT** to open the On-Screen Display (OSD) menu.
2. Go to the **PICTURE** > **Picture Mode** menu.
3. Press ◀/▶ to select **User 1** or **User 2**.
4. Press ▼ to highlight **Reference Mode**.

☞ This function is only available when **User 1** or **User 2** mode is selected up in the **Picture Mode** sub-menu item.

5. Press ◀/▶ to select a picture mode that is closest to your need.
6. Press ▼ to select a menu item to be changed and adjust the value with ◀/▶. See "Fine-tuning the image quality in user modes" below for details.

Fine-tuning the image quality in user modes

According to the detected signal type and selected picture mode, some of the below functions may not be available. Based on your needs, you can make adjustments to these functions by highlighting them and pressing ◄/► on the projector or remote control.

Adjusting Brightness

The higher the value, the brighter the image. And the lower the setting, the darker 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.



Adjusting 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.



Adjusting Sharpness

The higher the value, the sharper the picture becomes. The lower the value, the softer the picture becomes.

Adjusting 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 natural scenes, so the projector reproduces images in realistic and true colors. If you prefer images with that quality, select **On**. If you don't need it, select **Off**.

When **Off** is selected, the **Color Temperature** function is not available.

Selecting a Color Temperature

The options available for color temperature settings vary according to the signal type selected.

1. **Cool:** Makes images appear bluish white.
2. **Normal:** Maintains normal colorings for white.
3. **Warm:** Makes images appear reddish white.

Setting a preferred color temperature

To set a preferred color temperature:

1. Highlight **Color Temperature** and select **Warm**, **Normal** or **Cool** by pressing ◄/► on the projector or remote control.
2. Press ▼ to highlight **Color Temperature Fine Tuning** and press **MODE/ENTER**. The **Color Temperature Fine Tuning** page displays.
3. Press ▲/▼ to highlight the item you want to change and adjust the values by pressing ◄/► .
   - **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.
4. Press **MENU/EXIT** to exit and save the settings

3D Color Management

In most installation situations, color management will not be necessary, such as in classroom, meeting room, or lounge room situations where lights remain on, or where building external windows allow daylight into the room.

Only in permanent installations with controlled lighting levels such as boardrooms, lecture theaters, or home theaters, should color management be considered. Color management provides fine color control adjustment to allow for more accurate color reproduction, should you require it.

Proper color management can only be achieved under controlled and reproducible viewing conditions. You will need to use a colorimeter (color light meter), and provide a set of suitable source images to measure color reproduction. These tools are not provided with the projector, however, your projector supplier should be able to provide you with suitable guidance, or even an experienced professional installer.

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.

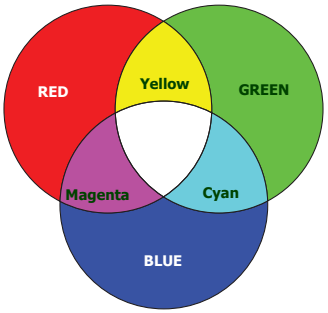
If you have purchased a test disc which contains various color test patterns and can be used to test the color presentation on monitors, TVs, projectors, etc, you can project any image from the disc on the screen and enter the **3D Color Management** menu to make adjustments.

To adjust the settings:

1. Go to the **PICTURE** menu and highlight **3D Color Management**.
2. Press **MODE/ENTER** on the projector or remote control and the **3D Color Management** page displays.
3. Highlight **Primary Color** and press ◀ / ▶ to select a color from among Red, Yellow, Green, Cyan, Blue, or Magenta.
4. Press ▼ to highlight **Hue** and press ◀ / ▶ to select its range. Increase in the range will include colors consisted of more proportions of its two adjacent colors.

   Please refer to the illustration to the right 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.



5. Press ▼ to highlight **Saturation** and adjust its values to your preference by pressing ◀ / ▶ . 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 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.

6. Press ▼ to highlight **Gain** and adjust its values to your preference by pressing ◄/►. The contrast level of the primary color you select will be affected. Every adjustment made will reflect to the image immediately.
7. Repeat steps 3 to 6 for other color adjustments.
8. Make sure you have made all of the desired adjustments.
9. Press **MENU/EXIT** to exit and save the settings.

Resetting current or all picture modes

1. Go to the **PICTURE** menu and highlight **Reset Picture Setting**.
2. Press **MODE/ENTER** and press ▲/▼ to select **Current** or **All**.
   - **Current**: returns current picture mode to the factory preset settings.
   - **All**: returns all picture modes to the factory preset settings.

Setting the presentation timer

Presentation timer can indicate the presentation time on the screen to help you achieve better time management when giving presentations. Follow these steps to utilize this function:

1. Go to the **SYSTEM SETUP: Basic** > **Presentation Timer** menu and press **MODE/ENTER** to display the **Presentation Timer** page.
2. Highlight **Timer Period** and decide the time period by pressing ◄/►. The length of time can be set from 1 to 5 minutes in 1-minute increments and 5 to 240 minutes in 5-minute increments.

☞ If the timer is already on, the timer will restart whenever the Timer Period is reset.

3. Press ▼ to highlight **Timer Display** and choose if you want the timer to show up on the screen by pressing ◄/►.

Selection	Description
Always	Displays the timer on screen throughout the presentation time.
3 min/2 min/1 min	Displays the timer on screen in the last 3/2/1 minute(s).
Never	Hides the timer throughout the presentation time.

4. Press ▼ to highlight **Timer Position** and set the timer position by pressing ◄/►.

Top-Left → Bottom-Left → Top-Right → Bottom-Right

5. Press ▼ to highlight **Timer Counting Direction** and select your desired counting direction by pressing ◄/►.

Selection	Description
Count Up	Increases from 0 to the preset time.
Count Down	Decreases from the preset time to 0.

6. To activate the presentation timer, press ▼ and press ◄/► to highlight **On** and press **MODE/ENTER**.
7. A confirmation message displays. Highlight **Yes** and press **MODE/ENTER** on the projector or remote control to confirm. You will see the message "**Timer is On**" displaying on the screen. The timer starts counting when the timer is on.

To cancel the timer, perform the following steps:

1. Go to the **SYSTEM SETUP: Basic > Presentation Timer** menu and highlight **Off**. Press **MODE/ENTER**. A confirmation message displays.
2. Highlight **Yes** and press **MODE/ENTER** to confirm. You will see the message "**Timer is Off**" displaying on the screen.

Remote paging operations

Connect the projector to your PC or notebook with a USB cable prior to using the paging function. See "Connection" on page 16 for details.

You can operate your display software program (on a connected PC) which responds to page up/down commands (like Microsoft PowerPoint) by pressing **PAGE +/PAGE -** on the remote control.

If remote paging function doesn't work, check if the USB connection is correctly made and the mouse driver on your computer is updated to the latest version.

☞ The remote paging function cannot work with Microsoft® Windows®98 operating system. Windows®XP or higher operating systems are recommended.

Freezing the image

Press **FREEZE** on the remote control to freeze the image. The word "**FREEZE**" will display in the upper left corner of the screen. To release the function, press any key on the projector or remote control.

☞ If your remote control has the following keys, please note that they cannot be pressed to release the function: **LASER**, **PAGE +/PAGE -**, **NETWORK**.

Hiding the image

In order to draw the audience's full attention to the presenter, you can use **ECO BLANK** on the projector or remote control to hide the screen image.

You can set the blank time in the **SYSTEM SETUP: Basic** > **Operation Settings** > **Blank Timer** menu to let the projector return the image automatically after a period of time when there is no action taken on the blank screen.

If the preset time spans are not suitable for your presentation, select **Disable**.

No matter **Blank Timer** is activated or not, you can press most of the keys on the projector or remote control to restore the 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.

Locking control keys

With the control keys on the projector locked, you can prevent your projector settings from being changed accidentally (by children, for example). When the **Panel Key Lock** is on, no control keys on the projector will operate except ⏻ **POWER**.

1. Go to the **SYSTEM SETUP: Basic** > **Panel Key Lock** menu, and select **On** by pressing ◀ / ▶ on the projector or remote control. A confirmation message displays.
2. Highlight **Yes** and press **MODE/ENTER** to confirm.

To release panel key lock, use the remote control to enter the **SYSTEM SETUP: Basic** > **Panel Key Lock** menu and press ◀ / ▶ to select **Off**.

- Keys on the remote control are still active when panel key lock is enabled.
- 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.

Operating in a high altitude environment

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.

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.

To activate the **High Altitude Mode**:

1. Press **MENU/EXIT** and then press ◀/▶ until the **SYSTEM SETUP: Advanced** menu is highlighted.
2. Press ▼ to highlight **High Altitude Mode** and press ◀ / ▶ select **On**. A confirmation message displays.
3. Highlight **Yes** and press **MODE/ENTER**.

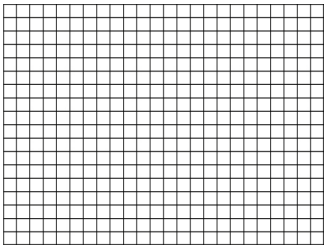
Operation under "**High Altitude Mode**" may cause a higher decibel operating noise level because of increased fan speed necessary to improve overall system cooling and performance.

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.

Using the test pattern

The projector is able to display the grid test pattern. It helps you adjust the image size and focus and check that the projected image is free from distortion.

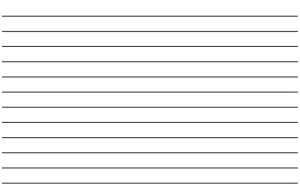
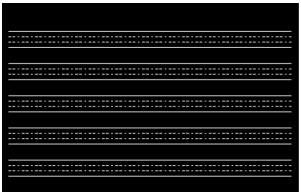
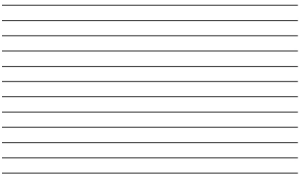
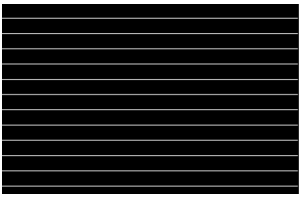
To display the test pattern, open the OSD menu and go to the **SYSTEM SETUP: Advanced** > **Test Pattern** and press ◀/▶ to select **On**.



Using the teaching templates

The projector provides several preset patterns for various teaching purposes. To activate the pattern:

1. Open the OSD menu and go to the **DISPLAY** > **Teaching Template** menu and press ▲/▼ to select **Blackboard** or **Whiteboard**.
2. Press ◀/▶ to choose the pattern you need.
3. Press **MODE/ENTER** to activate the pattern.

Teaching Template	Whiteboard	Blackboard
Letter Formation		
Worksheet		
Coordinate Chart		

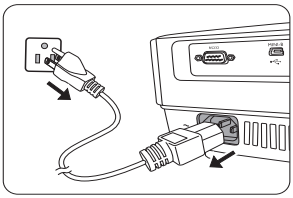
Shutting down the projector

1. Press **POWER** or **OFF** and a confirmation message will display prompting you.
   If you don't respond in a few seconds, the message will disappear.
2. Press **POWER** or **OFF** a second time. The **POWER indicator light** flashes orange, the projection lamp shuts down, and the fans will continue to run for approximately 90 seconds to cool down the projector.

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 40 for details.

3. The **POWER indicator light** is a steady orange and fans stop. Disconnect the power cord from the power outlet.



- If the projector is not properly shut down, to protect the lamp, when you attempt to re-start the projector, the fans will run for a few minutes to cool down. Press **POWER** or **ON** again to start the projector after the fans stop and the **POWER indicator light** turns orange.
- 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. (When you attempt to re-start the projector, the fans may run for a few minutes to cool down. In such cases, press **POWER** or **ON** again to start the projector after the fans stop and the **POWER indicator light** turns orange.

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.

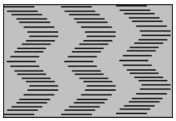
Main menu	Sub-menu		Options
1. DISPLAY	Wall Color		Off/Light Yellow/Pink/Light Green/Blue/ Blackboard
	Aspect Ratio		Auto/Real/4:3/16:9/16:10
	Keystone		
	Position		
	Phase		
	H. Size		
	Digital Zoom		
	3D	3D Mode	Top Bottom/Frame Sequential/ Side by Side/Off
		3D Sync Invert	Disable/Invert
		Save 3D Settings	3D Settings 1/3D Settings 2/ 3D Settings 3
		Apply 3D Settings	3D Settings 1/3D Settings 2/ 3D Settings 3/Off
	Teaching Template	Blackboard	Off/Letter Formation/Worksheet/ Coordinate Chart
		Whiteboard	Off/Letter Formation/Worksheet/ Coordinate Chart
2. PICTURE	Picture Mode	Dynamic/Presentation/sRGB/Cinema/(3D)/User 1/User 2	
	Reference Mode	Dynamic/Presentation/sRGB/Cinema/(3D)	
	Brightness		
	Contrast		
	Sharpness		
	Brilliant Color		On/Off
	Color Temperature		Cool/Normal/Warm
	Color Temperature Fine Tuning		R Gain/G Gain/B Gain/R Offset/ G Offset/B Offset
	3D Color Management	Primary Color	R/G/B/C/M/Y
		Hue	
		Saturation	
		Gain	
	Reset Picture Settings		Current/All/Cancel
3. SOURCE	Quick Auto Search		On/Off

Main menu	Sub-menu		Options
4. SYSTEM SETUP: Basic	Presentation Timer	Timer Period	1~240 minutes
		Timer Display	Always/3 min/2 min/1 min/Never
		Timer Position	Top-Left/Bottom-Left/Top-Right/ Bottom-Right
		Timer Counting Direction	Count Down/Count Up
		On/Off	
	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/ Български/ Hrvatski/ Română/ Suomi/ Norsk/ Dansk /Indonesian/Ελληνικά / العربية / हिन्दी
	Projector Installation		Front Table/Rear Table/Rear Ceiling/ Front Ceiling
	Menu Settings	Menu Display Time	5 sec/10 sec/20 sec/30 sec/Always
		Menu Position	Center/Top-Left/Top-Right/ Bottom-Right/Bottom-Left
		Reminder Message	On/Off
	Operation Settings	Direct Power On	On/Off
		Signal Power On	On/Off
		Auto Power Off	Disable/3 min/10 min/15 min/20 min/ 25 min/30 min
		Quick Cooling	On/Off
		Instant Restart	On/Off
		Blank Timer	Disable/5 min/10 min/15 min/20 min/ 25 min/30 min
		Sleep Timer	Disable/30 min/1 hr/2 hr/3 hr/4 hr/8 hr/ 12 hr
	Panel Key Lock		On/Off
	Background Color		BenQ/Black/Blue/Purple
	Splash Screen		BenQ/Black/Blue

Main menu	Sub-menu		Options
5. SYSTEM SETUP: Advanced	**High Altitude Mode**		On/Off
	Lamp Settings	**Lamp Mode**	Normal/Economic/SmartEco/ LampSave
		Reset Lamp Timer	
		Equivalent Lamp	
	Security Settings	**Change Password**	
		Change Security Settings	
		Power On Lock	On/Off
	Baud Rate		2400/4800/9600/14400/19200/ 38400/57600/115200
	Test Pattern		On/Off
	Standby Settings	**Monitor Out**	On/Off
	Reset All Settings		
6. INFORMATION	**Current System Status**		• Source • Picture Mode • Lamp Mode • Resolution • 3D Format • Color System • Equivalent Lamp • Firmware Version

Note that 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.

Description of each menu

	Function	Description
I. DISPLAY menu	**Wall Color**	Corrects the projected picture's color when the projection surface is not white. See "Using Wall Color" on page 26 for details.
	Aspect Ratio	There are several options to set the image's aspect ratio depending on your input signal source. See "Selecting the aspect ratio" on page 24 for details.
	Keystone	Corrects any keystoning of the image. See "Correcting keystone" on page 19 for details.
	Position	Displays the position adjustment page. To move the projected image, use the directional arrow keys. The values shown on the lower position of the page change with every key press you made until they reach their maximum or minimum. This function is only available when a PC signal (analog RGB) is selected.
	Phase	Adjusts the clock phase to reduce image distortion.  This function is only available when a PC signal (analog RGB) is selected.
	H. Size	Adjusts the horizontal width of the image. This function is only available when a PC signal (analog RGB) is selected.
	Digital Zoom	Magnifies or reduces the projected image. See "Magnifying and searching for details" on page 24 for details.

	Function	Description
1. DISPLAY menu	**3D**	This projector features a 3D function which enables you to enjoy the 3D content 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 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 ▲/▼ to choose a 3D mode. When the **3D** function is on: • The brightness level of the projected image will decrease. • The **Picture Mode** cannot be adjusted. • The **Keystone** can only be adjusted within limited degrees. **3D Sync Invert** When you discover the inversion of the image depth, enable this function to correct the problem. **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. **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.
	Teaching Template	See "Using the teaching templates" on page 32 for details.
2. PICTURE menu	**Picture Mode**	Pre-defined picture modes are provided so you can optimize your projector image set-up to suit your program type. See "Selecting a picture mode" on page 26 for details.
	Reference Mode	Selects a picture mode that best suits your need for the image quality and further fine-tune the image based on the selections listed on the same page below. See "Setting the User 1/User 2 mode" on page 26 for details.
	Brightness	Adjusts the brightness of the image. See "Adjusting Brightness" on page 27 for details.
	Contrast	Adjusts the degree of difference between dark and light in the image. See "Adjusting Contrast" on page 27 for details.

	Function	Description
2. PICTURE menu	**Sharpness**	Adjusts the image to make it look sharper or softer. See "Adjusting Sharpness" on page 27 for details.
	Brilliant Color	See "Adjusting Brilliant Color" on page 27 for details.
	Color Temperature	See "Selecting a Color Temperature" on page 27 for details.
	Color Temperature Fine Tuning	See "Setting a preferred color temperature" on page 27 for details.
	3D Color Management	See "3D Color Management" on page 28 for details.
	Reset Picture Settings	See "Resetting current or all picture modes" on page 29 for details.
3. SOURCE menu	**Quick Auto Search**	See "Switching input signal" on page 23 for details.
4. SYSTEM SETUP: Basic menu	**Presentation Timer**	Reminds the presenter to finish the presentation within a certain time frame. See "Setting the presentation timer" on page 29 for details.
	Language	Sets the language for the On-Screen Display (OSD) menus. See "Using the menus" on page 20 for details.
	Projector Installation	The projector can be installed on a ceiling or behind a screen, or with one or more mirrors. See "Choosing a location" on page 14 for details.
	Menu Settings	**Menu Display Time** Sets the length of time the OSD will remain active after your last key press. **Menu Position** Sets the On-Screen Display (OSD) menu position. **Reminder Message** Sets the reminder messages on or off.

Function		Description
4. SYSTEM SETUP: Basic menu	**Operation 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 the signal is feed through the VGA cable. **Auto Power Off** Allows the projector to turn off automatically if no input signal is detected after a set period of time. See "Setting Auto Power Off" on page 44 for details. **Quick Cooling** Enables or disables the Quick Cooling function. Selecting **On** enables the function and projector cooling time will be shortened from a normal 90-second duration to approximately 15 seconds. ☞ This function is only available when **Instant Restart** is off. **Instant Restart** Selecting **On** enables you to restart the projector immediately within 90 seconds after turning it off. **Blank Timer** Sets the image blank time when the Blank feature is activated, once elapsed the image will return to the screen. See "Hiding the image" on page 30 for details. **Sleep Timer** Sets the auto-shutdown timer.
	Panel Key Lock	Disables or enables all panel key functions except ⏻ **POWER** on the projector and keys on the remote control. See "Locking control keys" on page 31 for details.
	Background Color	Sets the background color for the projector.
	Splash Screen	Allows you to select which logo screen will display during projector start-up.

	Function	Description
5. SYSTEM SETUP: Advanced menu	**High Altitude Mode**	A mode for operation in high altitude areas. See "Operating in a high altitude environment" on page 31 for details.
	Lamp Settings	**Lamp Mode** See "Setting the Lamp Mode" on page 44 for details. **Reset Lamp Timer** See "Resetting the lamp timer" on page 48 for details. **Equivalent Lamp** See "Getting to know the lamp hour" on page 44 for details on how the total lamp hour is calculated.
	Security Settings	See "Utilizing the password function" on page 21 for details.
	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.
	Test Pattern	See "Using the test pattern" on page 31 for details.
	Standby Settings	**Monitor Out** Selecting **On** enables the function. The projector can output a VGA signal when it is in standby mode and the **COMPUTER-1** jack is correctly connected to devices. See "Connection" on page 16 for how to make the connection. ☞ Enabling this function slightly increases the standby power consumption.
	Reset All Settings	Returns all settings to the factory preset values. ☞ The following settings will still remain: **Keystone**, **Phase**, **H. Size**, **Reference Mode**, **3D Color Management**, **Color Space Conversion**, **Language**, **Projector Installation**, **Signal Power On**, **High Altitude Mode**, **Security Settings** and **Baud Rate**.

Function		Description
6. INFORMATION menu	**Current System Status**	**Source** Shows the current signal source. **Picture Mode** Shows the selected mode in the **PICTURE** menu. **Lamp Mode** Shows the current lamp mode. **Resolution** Shows the native resolution of the input signal. **3D Format** Shows the current 3D mode. **Color System** Shows input system format. **Equivalent Lamp** Displays the number of hours the lamp has been used. **Firmware Version** Shows the firmware version of your projector.

Maintenance

Care of the projector

Your projector needs little maintenance. The only thing you need to do on a regular basis is to keep the lens and case clean.

Never remove any parts of the projector except the lamp. Contact your dealer if other parts need replacing.

Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface. Please be sure to turn off the projector, unplug the power cable 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 33 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 51 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. When you carry the projector yourself, please use the original box or a carry bag.

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.

Total (equivalent) lamp hour = 2.22 x (hours used in **Normal** mode) + 1.67 x (hours used in **Economic** mode) + 1.54 x (hours used in **SmartEco** mode) + 1.00 x (hours used in **LampSave** mode)

To obtain the lamp hour information:

1. Press **MENU/EXIT** and then press ◀/▶ to highlight the **SYSTEM SETUP: Advanced** menu.
2. Press ▼ to highlight **Lamp Settings** and press **MODE/ENTER**. The **Lamp Settings** page displays.
3. You will see the **Equivalent Lamp** information displaying on the menu.
4. To leave the menu, press **MENU/EXIT**.

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

Extending lamp life

The projection lamp is a consumable item that normally can last up to 3000-4000 hours with proper usage. To keep the lamp life as long as possible, you can do the following settings via the OSD menu.

- **Setting the Lamp Mode**

Setting the projector in **Economic**, **SmartEco** or **LampSave** mode extends the lamp operation life. To set **Economic**, **SmartEco** or **LampSave** mode, go into the **SYSTEM SETUP: Advanced** > **Lamp Settings** > **Lamp Mode** menu and press ◀/▶.

Lamp mode	Description
Normal	Provides full lamp brightness
Economic	Lowers brightness to extend the lamp life and decreases the fan noise
SmartEco	Adjusts the lamp power automatically depending on the content brightness level
LampSave	Adjusts the lamp power automatically and lowers the brightness to extend the 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 into the **SYSTEM SETUP: Basic** > **Operation Settings** > **Auto Power Off** menu and press ◀/▶. If the preset time lengths are not suitable for your presentation, select **Disable**. The projector will not automatically shut down in a certain time period.

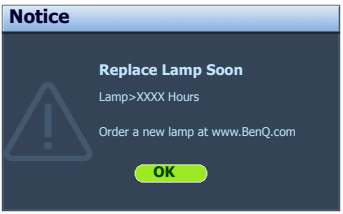
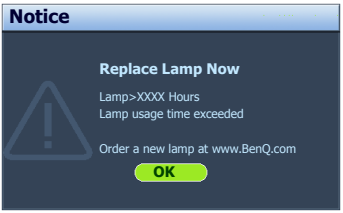
Timing of replacing the lamp

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

Go to http://www.BenQ.com for a replacement lamp.

The **LAMP indicator light** and **TEMP (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 49 for details.

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

Status	Message
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 44), you may continue to operate the projector until the next hour lamp warning appears. Press **MODE/ENTER** 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 **MODE/ENTER** to dismiss the message.	 
The lamp MUST be replaced before the projector will operate normally. Press **MODE/ENTER** to dismiss the message.	

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

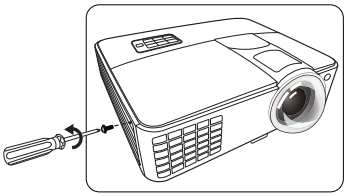
Replacing the lamp

- 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.

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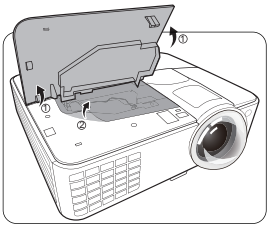
2. Loosen the screw(s) that secures the lamp cover on the side of the projector until the lamp cover loosens.



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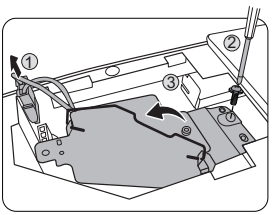
3. Remove the lamp cover from the projector.

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

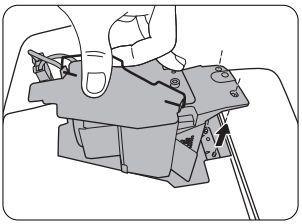


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4. Disconnect the lamp connector from the projector as illustrated.
5. Loosen the screw that secures the lamp.
6. Lift the handle so that it stands up.

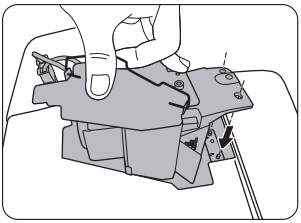


7. Use the handle to slowly pull the lamp out of the projector.

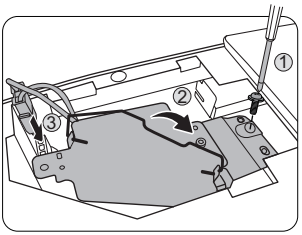


- Pulling it too quickly may cause the lamp to break and scatter broken glass in the projector.
- Do not place the lamp in locations where water might splash on it, children can reach it, or near flammable materials.
- Do not insert your hands into the projector after the lamp is removed. If you touch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

8. As shown in the figure, lower the new lamp.

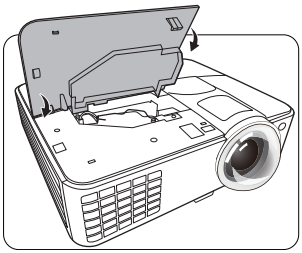


9. Tighten the screw that secures the lamp.
10. Ensure the handle is fully laid flat and locked in place.
11. Reconnect the lamp connector.

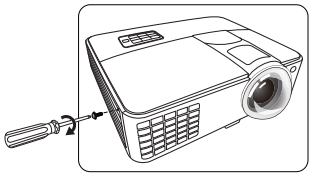


- Loose screw may cause a bad connection, which could result in malfunction.
- Do not over tighten the screw.

12. Replace the lamp cover on the projector.



13. Tighten the screw(s) that secures the lamp cover.



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

14. Connect the power and restart the projector.

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

Resetting the lamp timer

15. After the startup logo, open the On-Screen Display (OSD) menu. Go to the **SYSTEM SETUP: Advanced** > **Lamp Settings** menu. Press **MODE/ENTER**. The **Lamp Settings** page displays. Highlight **Reset Lamp Timer**. A warning message is displayed asking if you want to reset the lamp timer. Highlight **Reset** and press **MODE/ENTER**. 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			
Orange	**Off**	**Off**	Stand-by mode.
Green Flashing	**Off**	**Off**	Powering up.
Green	**Off**	**Off**	Normal operation.
Orange Flashing	**Off**	**Off**	Normal power-down cooling
Red	**Off**	**Off**	Download
Green	**Off**	**Red**	CW start fail
Red Flashing	**Off**	**Off**	Scaler shutdown fail (data abort)
Red	**Red**	**Off**	LAN download fail
Red	**Green**	**Off**	LAN download processing
Green	**Off**	**Off**	Burn-in ON
Green	**Green**	**Green**	Burn-in OFF
Lamp events			
Off	**Off**	**Red**	Lamp1 error in normal operation
Off	**Off**	**Red Flashing**	Lamp is not lit up
Green	**Off**	**Orange**	Lamp life exhausted
Thermal events			
Red	**Red**	**Off**	Fan 1 error (the actual fan speed is ±25% outside the desired speed)
Red	**Red Flashing**	**Off**	Fan 2 error (the actual fan speed is ±25% outside the desired speed)
Green	**Red**	**Off**	Temperature 1 error (over limited temperature)

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 source is not turned on or connected correctly.	Turn the 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 on the projector or remote control.
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 battery is out of power.	Replace the battery 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.	Please see "Entering the password recall procedure" on page 22 for details.

Specifications

Projector specifications

☞ All specifications are subject to change without notice.

Optical

Resolution
1024 x 768 XGA

Display system
1-CHIP DMD

Lens
F = 2.6, f = 6.9 mm

Clear focus range
0.74–1.48 m

Lamp
190 W lamp

Electrical

Power supply
AC100–240V, 2.8 A, 50–60 Hz (Automatic)

Power consumption
280 W (Max); < 0.5 W (Standby)

Mechanical

Weight
2.5 Kg (5.51 lbs)

Output terminals

RGB output
D-Sub 15-pin (female) x 1

Control

RS-232 serial control
9 pin x 1

IR receiver x 1

USB port (Mini-B x 1)

Input terminals

Computer input
RGB input
D-Sub 15-pin (female) x 2

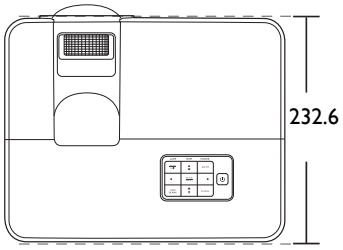
Environmental Requirements

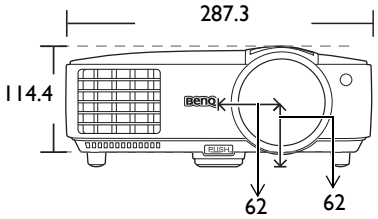
Operating temperature
0°C–40°C at sea level

Operating relative humidity
10%–90% (without condensation)

Operating altitude
0–1499 m at 0°C–35°C
1500–3000 m at 0°C–30°C (with High Altitude Mode on)

Dimensions

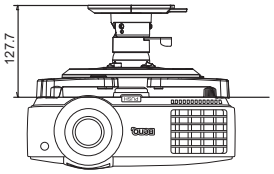


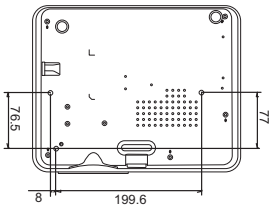


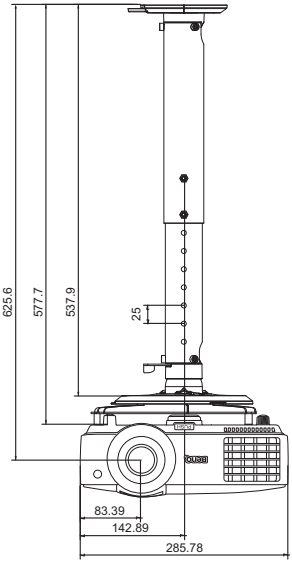
Unit: mm

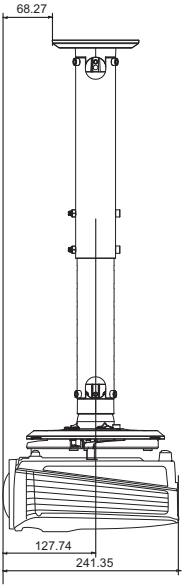
Ceiling mount installation

Ceiling Mount screw: M4
(Max L = 25 mm; Min L = 20 mm)









Unit: mm

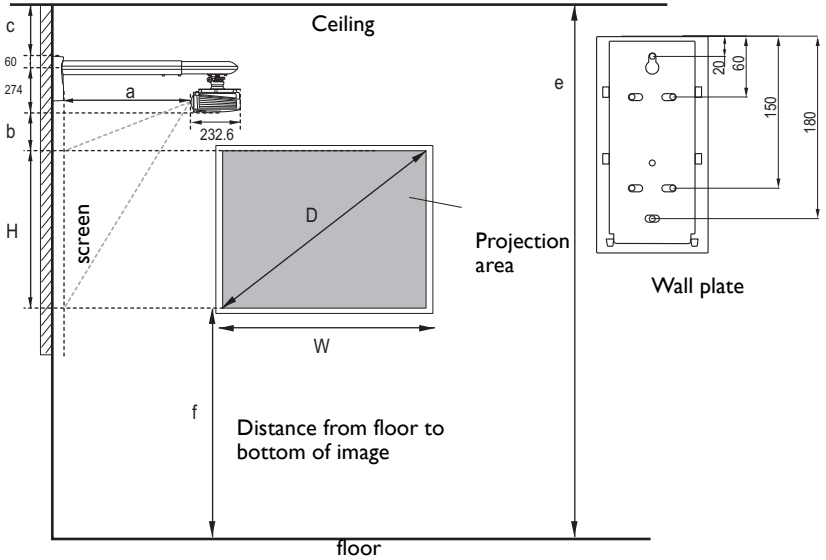
Wall mount installation

Minimum installation requirements

Computer Resolution: XGA Image Resolution: XGA	Diagram Reference	SMART Board 660	Smart Board 680	Promethean ActivBoard 164	Promethean ActivBoard 178	RM ClassBoard2 77.5	Hitachi StarBoard FX-63	StarBoard FX-77
Image Diagonal (inches)	D	64	77	64	78	78	63	77
Image Height (mm)	H	975	1173	975	1189	1181	960	1173
Image Width (mm)	W	1300	1565	1300	1585	1575	1280	1565
Distance from floor to bottom of image (mm)	f	900	900	900	900	900	900	900
Distance from screen surface to projector rear case (mm)	a	790	950	790	970	970	780	950
Distance from top case to the top of image (mm)	b	94	124	94	126	126	92	124
Distance from top of wall mount to ceiling (mm)	c	50	50	50	50	50	50	50
Minimum Ceiling Height (mm)	e	2347	2575	2347	2593	2585	2330	2575

Computer Resolution: WXGA Image Resolution: WXGA	Diagram Reference	SMART Board 685	Promethean ActivBoard 387	Hitachi FX-TRIO-88W	Hitachi FX-DUO-88W
Image Diagonal (inches)	D	87	87	88	88
Image Height (mm)	H	1171	1171	1181	1181
Image Width (mm)	W	1874	1874	1887	1887
Distance from floor to bottom of image (mm)	f	900	900	900	900
Distance from screen surface to projector lens (mm)	a	916	916	926	926
Distance from top case to the top of image (mm)	b	6.8	6.8	7.5	7.5
Distance from top of wall mount to ceiling (mm)	c	50	50	50	50
Minimum Ceiling Height (mm)	e	2461.8	2461.8	2472.5	2472.5

Minimum Ceiling Height (mm) = f + H + b + 60 + 274+ c



- The dimensions are based on the BenQ wall mount (P/N: 5J.J4R10.011).
- 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.
- The dimensions supplied are offered as a guide only and may differ depending on several factors relating to any specific installation.
- The dimensions are based on the projector being configured with zero keystone correction.
- The dimensions assume that the wall mount arm is positioned 90° from the bottom case of projector and screen surface.

Timing chart

Supported timing for PC input

Resolution	Mode	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Pixel Frequency (MHz)
640 x 480	VGA_60*	59.940	31.469	25.175
	VGA_72	72.809	37.861	31.500
	VGA_75	75.000	37.500	31.500
	VGA_85	85.008	43.269	36.000
720 x 400	720 x 400_70	70.087	31.469	28.3221
	SVGA_60*	60.317	37.879	40.000
800 x 600	SVGA_72	72.188	48.077	50.000
	SVGA_75	75.000	46.875	49.500
	SVGA_85	85.061	53.674	56.250
	SVGA_120** (Reduce Blanking)	119.854	77.425	83.000
1024 x 768	XGA_60*	60.004	48.363	65.000
	XGA_70	70.069	56.476	75.000
	XGA_75	75.029	60.023	78.750
	XGA_85	84.997	68.667	94.500
	XGA_120** (Reduce Blanking)	119.989	97.551	115.5
1152 x 864	1152 x 864_75	75	67.5	108
1024 x 576	BenQ Notebook Timing	60.0	35.820	46.966
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
	SXGA_85	85.024	91.146	157.500
1280 x 960	1280 x 960_60***	60.000	60.000	108
	1280 x 960_85	85.002	85.938	148.500
1360 x 768	1360 x 768_60***	60.015	47.712	85.500
1440 x 900	WXGA+_60***	59.887	55.935	106.500
1400 x 1050	SXGA+_60***	59.978	65.317	121.750
1600 x 1200	UXGA***	60.000	75.000	162.000
1680 x 1050	1680 x 1050_60***	59.954	65.29	146.25
640 x 480@67Hz	MAC13	66.667	35.000	30.240
832 x 624@75Hz	MAC16	74.546	49.722	57.280
1024 x 768@75Hz	MAC19	74.93	60.241	80.000
1152 x 870@75Hz	MAC21	75.06	68.68	100.00

- *Supported timing for 3D signal in **Frame Sequential**, **Top Bottom** and **Side by Side** formats.
  Supported timing for 3D signal in **Frame Sequential format.
  ***Supported timing for 3D signal in **Top Bottom** and **Side by Side** formats.

- 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.

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.

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Patents

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