

**benq**



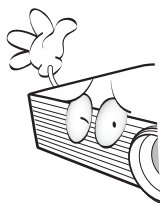




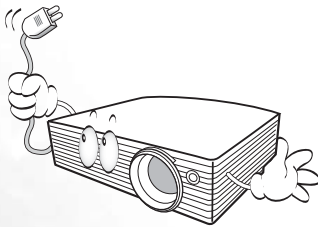
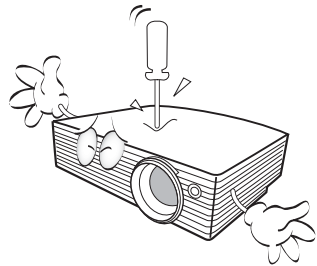
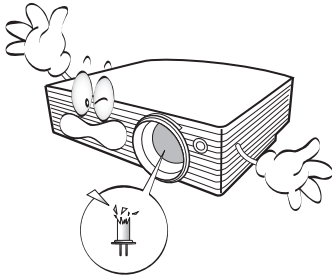
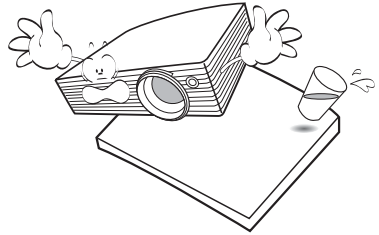
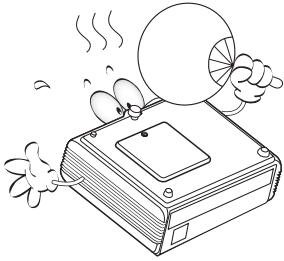




Caution



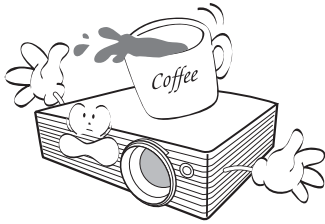
## Safety Instructions




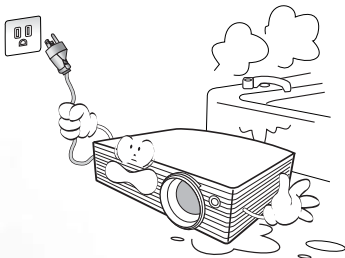
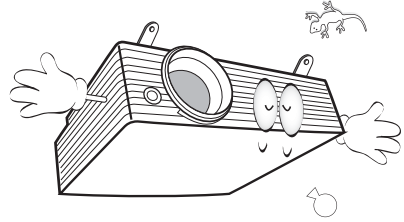





## Safety Instructions (Continued)

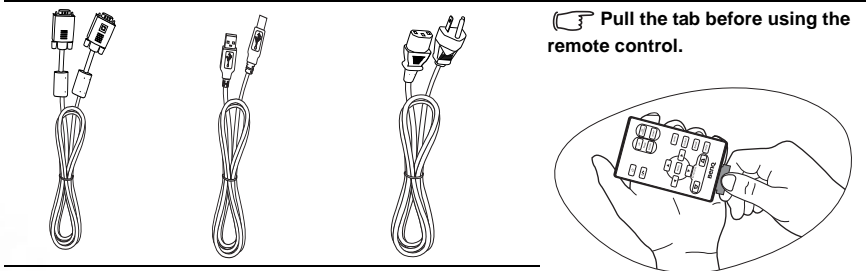
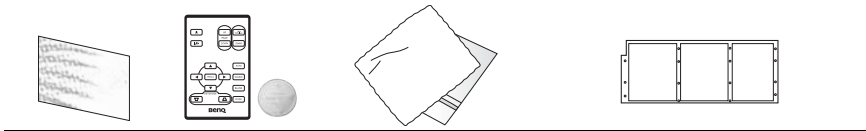


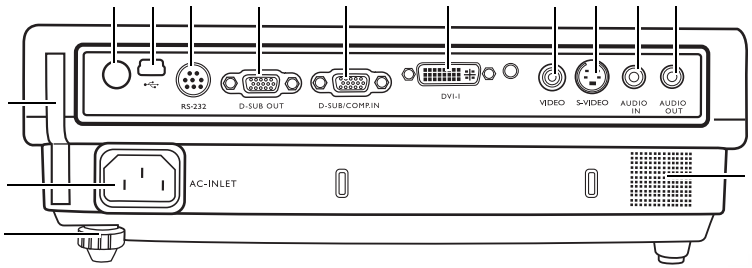
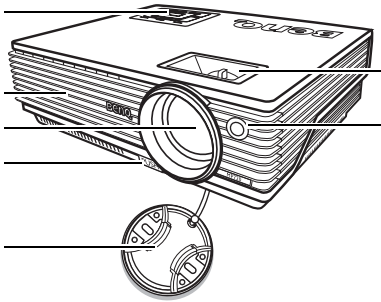
 Please use BenQ's Ceiling Mount Kit for mounting the unit and ensure it is securely installed.

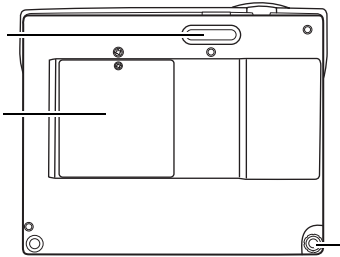
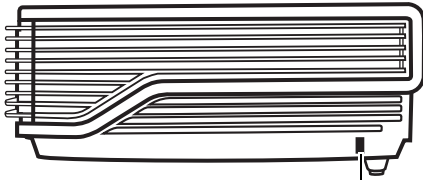


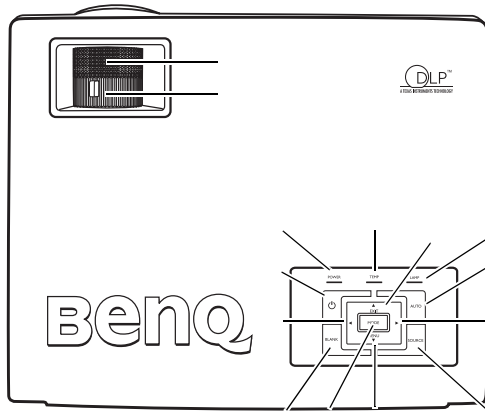
- ☞ • **The apparent brightness of the projected image will vary depending on the ambient lighting conditions, selected input source contrast/brightness settings, and is directly proportional to projection distance.**
- **The lamp brightness will decline over time and may vary within the lamp manufacturers specifications. This is normal and expected behavior.**

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



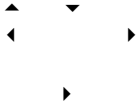


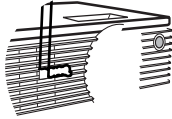










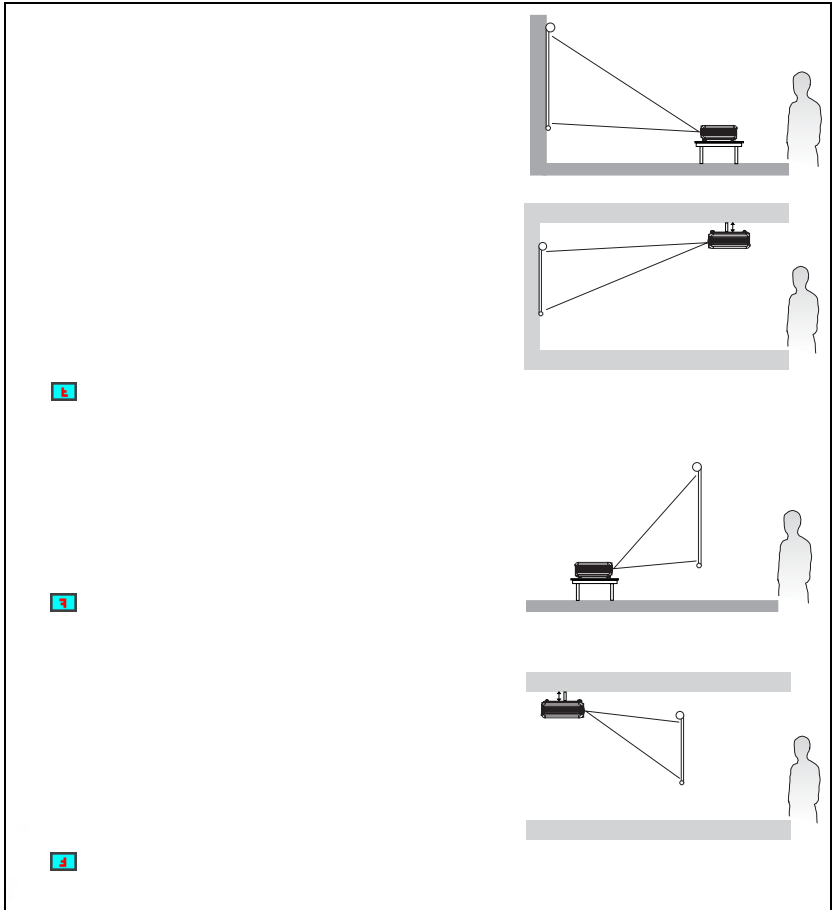


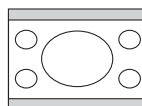
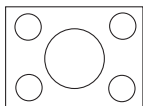
**Make sure that there are no obstacles between the remote control and the IR sensors on the projector that might obstruct the infra-red beam.**

- **Avoid excessive heat and humidity. There may be battery damage if the battery is incorrectly replaced.**
- **Replace only with the same or equivalent type recommended by the battery manufacturer.**
- **Dispose of the used battery according to the manufacturer's instructions.**
- **Never throw a battery into a fire. There may be danger of an explosion.**
- **If the battery is dead or if you will not be using the remote control for a long time, remove the battery to prevent damage to the remote control from possible battery leakage.**

☞ If you use the projector with wireless function, there's no need to worry about data cable connections. This gives you the flexibility to site the projector anywhere in the room up to a range of 20m away from your notebook, and switch between presentations on different notebooks instantly without fiddling with cables

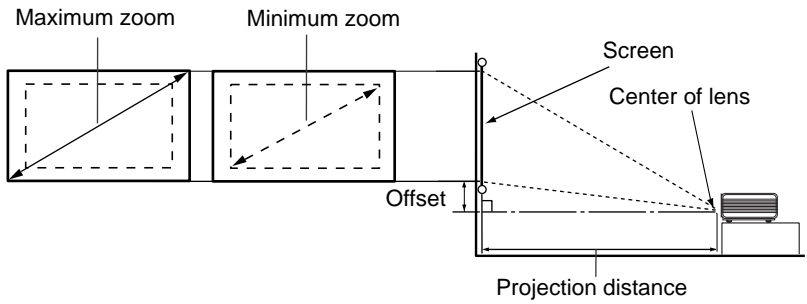
To use the wireless function, you need to install a BenQ wireless module to the projector and enable your notebook/desktop PC with wireless connection. For more information, refer to ["Wireless connection \(optional\)" on page 18](#).






**IMPORTANT:** Do not select a permanent projector position based upon a 16:9 projection if you will ever need to select an input (other than composite Video being fed a 16:9 aspect signal).









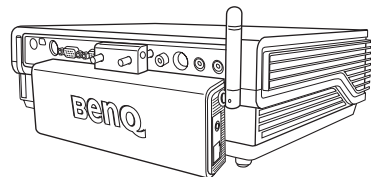


 There is 3%-5% tolerance among these numbers due to optical component variations.

 In the connections shown below, some cables may not be included with the projector (see "[Shipping contents](#)" on page 6). They are commercially available from electronics stores.

 Whilst the Wireless module is attached to the projector, you cannot use the DVI-I socket for DVI cable connections.

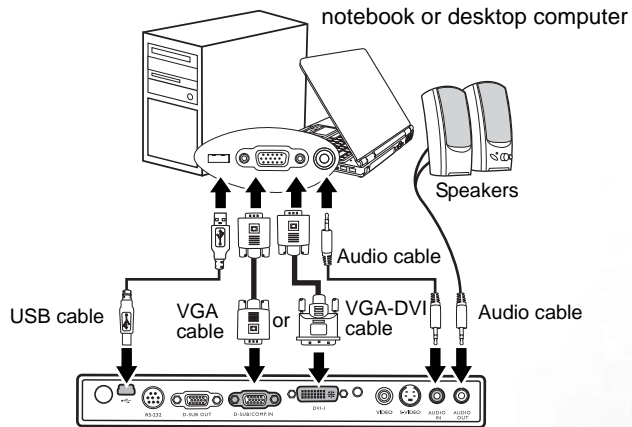
Even though the projector may be using a wireless data connection, it still requires physical connection to a power outlet using its power cable.



Projector with the wireless module



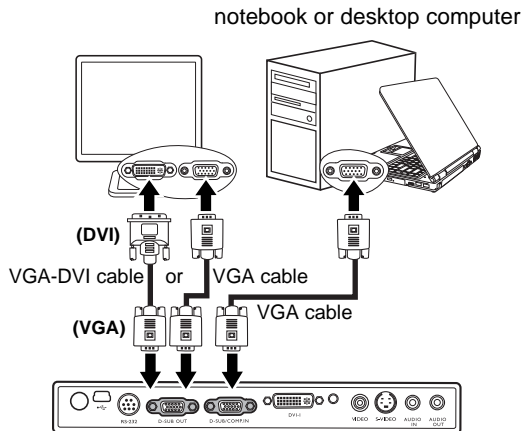
<p><b>*The audio output is a mixed mono signal and controlled by the projector Volume and Mute settings.</b></p>	



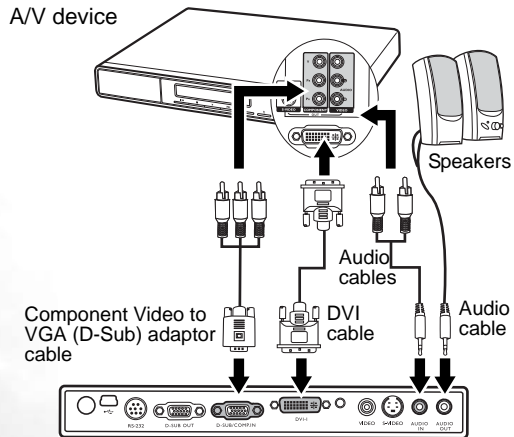
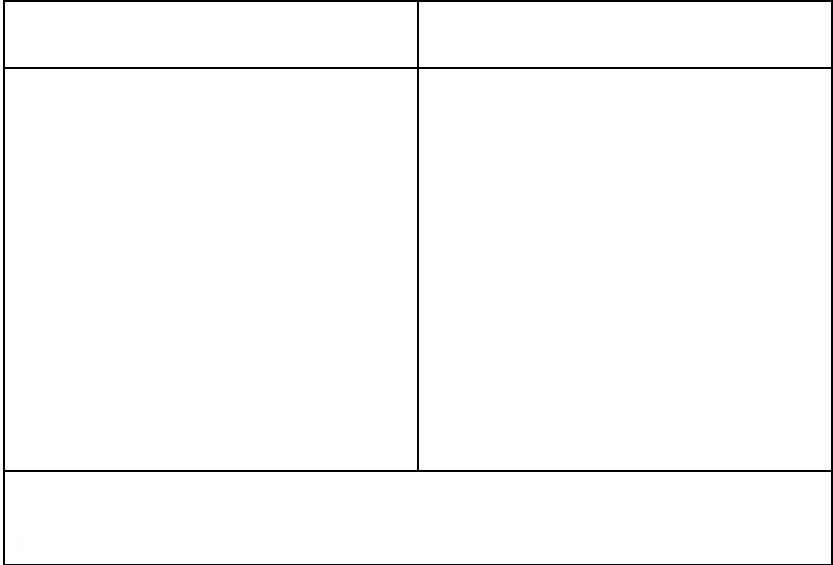
- **A Mac adapter (an optional accessory) is needed if you are connecting legacy version Macintosh computers.**
- **Many notebooks do not turn on their external video ports when connected to a projector. Usually a key combo like FN + F3 or CRT/LCD key turns the external display on/off. Locate a function 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.**

**Note: The D-SUB output only works when an appropriate D-SUB input is made to the projector. Be sure the projector is connecting with the computer using the D-SUB IN socket, not the DVI socket.**

	<b>Note: You monitor must be equipped with a DVI input socket.</b>

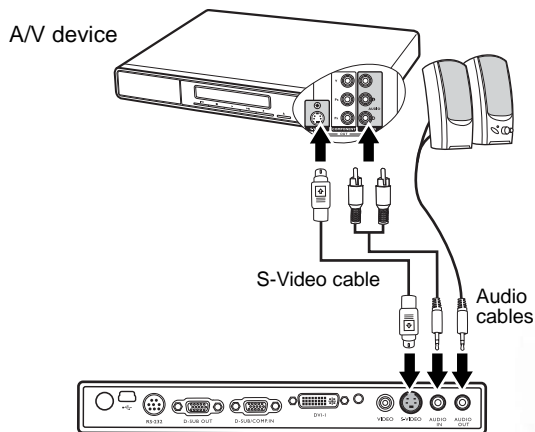


**This projector also supports data (graphic) "PC" connection using Wi-Fi. Wi-Fi connection is not recommended for Video presentations. See ["Wireless connection \(optional\)"](#) on page 18.**



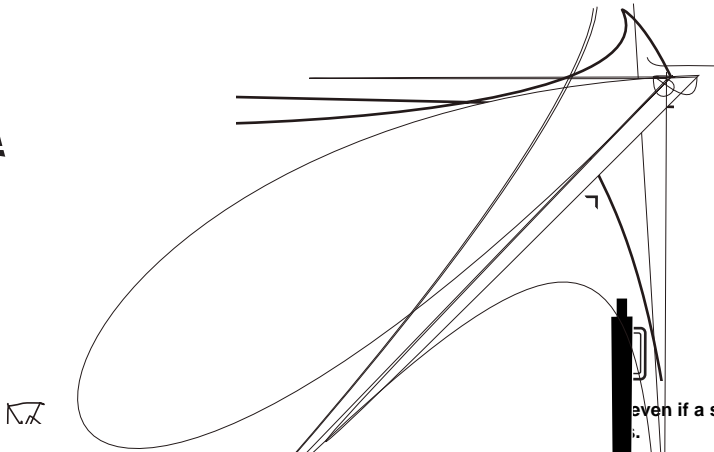
- The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See ["Connecting Audio" on page 21](#) for details.
- Component Video is the only video output that delivers native 16:9 aspect ratio picture.

If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.

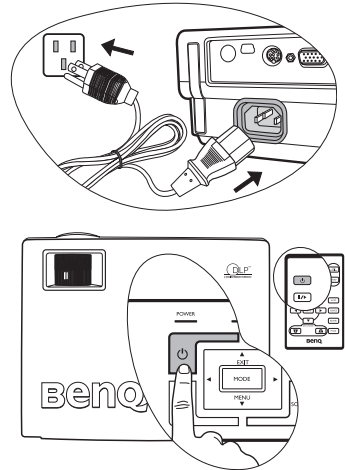


- The projector is only capable of playing mixed mono audio, even if a stereo audio input is connected. See ["Connecting Audio" on page 21](#) for details.
- If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, check that the Video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.

- If you have already made a Component Video connection between the projector and this S-Video source device using Component Video connections, you need not connect to this device using an S-Video connection as this makes an unnecessary second connection of poorer picture quality. See ["Connecting Video source devices"](#) on page 21 for details.




even if a stereo audio input  
is turned on and the  
source device is turned on  
have been connected  
Video connection if Component  
[Connecting Video source](#)

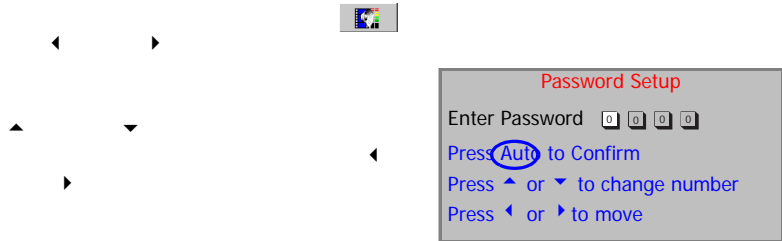



**If the projector is still hot from previous activity, it will run the cooling fan for approximately 90 seconds before energising the lamp.**

**If the frequency/ resolution of the input signal exceeds the projector's operating range, you will see the message "Out of Range" displayed on a blank screen.**

**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.**

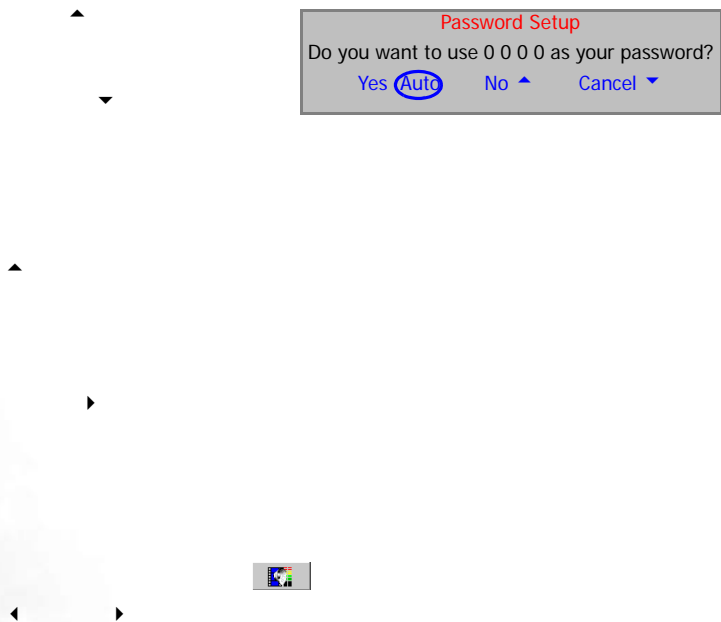
 **CAUTION:** Once a password has been set, the projector cannot be used unless the correct password is entered every time the projector is started.




-  • The password will display on-screen when being input.
- **IMPORTANT:** Write your selected password down here in this manual so that it is available to you should you ever forget it.

Password: \_ \_ \_ \_

Keep this manual in a safe place.







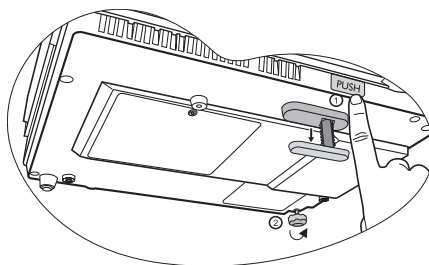
 **IMPORTANT:** Write your selected password down here in this manual so that it is available to you should you ever forget it.


Password: \_ \_ \_ \_ \_

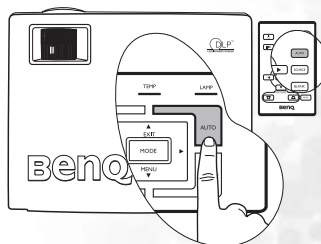
Keep this manual in a safe place.

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

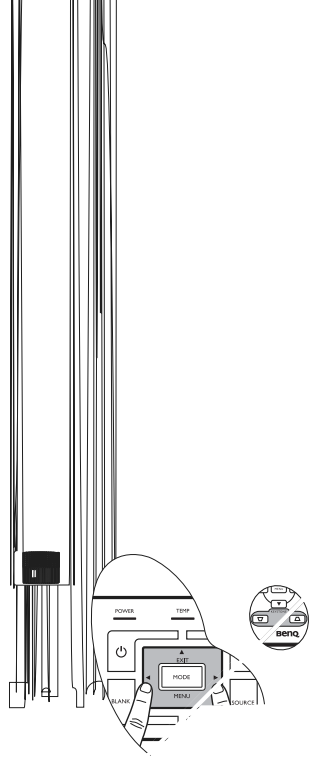
 Be careful when you press the adjuster button as it is close to the exhaust vent where hot air comes from.



 If the screen and the projector are not perpendicular to each other, the projected image becomes vertically trapezoidal. To correct this situation, adjust the value of Keystone in the Picture menu, on the projector control panel, or on the remote control. Refer to ["Correcting keystone" on page 28](#) for details.



 The screen will be blank while Auto is functioning.



Keystone 0

1. Press Left on the remote control
2. Press on the remote control
3. Press Left on the remote control

Left on the remote control  
 in Picture -->



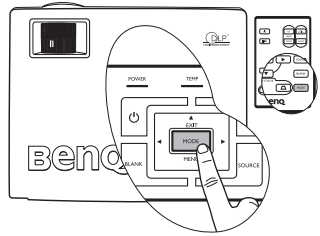
Keystone -6

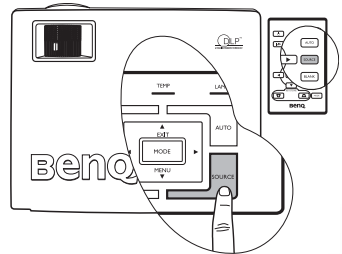


Keystone 0

1. Press Right on the projector or Right on the remote control
2. Press on the remote control or Up on the projector
3. Press Right on the projector or Right on the remote control when you are in the Picture menu --> Keystone menu.

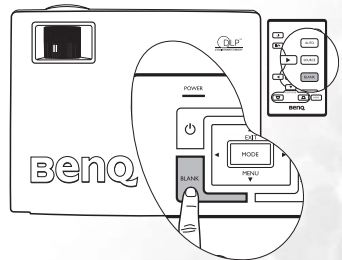








**The brightness level of the projected image will change accordingly when you switch between different input signals. Data (graphic) "PC" presentations using mostly static images are generally brighter than "Video" using mostly moving images (movies).**

The input type effects the options available for the Application Mode. See **"Selecting an application mode"** on page 29 for details.






**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.**

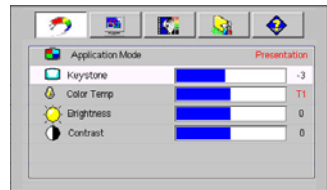
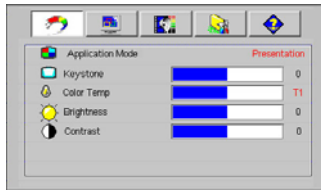
 Connect the projector to your PC or notebook with a USB cable using this function.



- To protect the lamp, the projector will not respond to any commands during the cooling process.
- To shorten the cooling process, use the "Quick Cooling (off)" function. See [page 27](#).
- Do not unplug the power cord before the projector shutdown sequence is complete or during the 90-second cooling down process.
- If the projector is not properly shut down, you risk damaging the lamp. Do not move the projector whilst the lamp is hot.

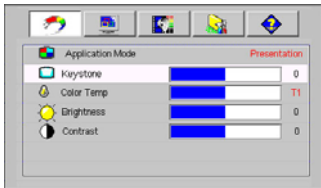
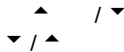



Sub-Menu	PC / DVI-A	Wireless / DVI-D	Video / S-Video	Component Video
 <b>Picture</b>	Application Mode Keystone Color Temp Brightness Contrast		Application Mode Keystone Color Temp Brightness Contrast Color Tint*	
 <b>Pro-Picture</b>	Auto Resize Aspect Ratio H Position V Position Phase H. Size	Auto Resize (not available with Wireless selected) Aspect Ratio	Auto Resize Aspect Ratio Sharpness	
 <b>Setting</b>	Mute Volume OSD Time Quick Cooling Password Change Password Reset			
<b>Advance</b>	Mirror Blank Time Source Scan Language Splash Screen High Altitude Mode Auto Off Economic Mode			
<b>Information</b>	Source Resolution Application Mode Equivalent Lamp Hour		Source System Application Mode Equivalent Lamp Hour	Source Resolution Application Mode Equivalent Lamp Hour







▲

**Menu**





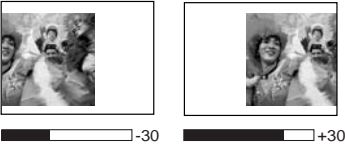


 Some picture adjustments are available only when certain input sources are in use. Unavailable adjustments are not shown on the screen.




FUNCTION (default setting / value)	DESCRIPTION
<p><b>Application Mode</b></p> <p><b>(PC: Brightest;</b></p> <p><b>YPbPr/ S-Video/ Video: Movie)</b></p>	<p> You can use the remote control 'Mode' button to select a predefined application mode. See "<a href="#">Selecting an application mode</a>" on page 29 for details.</p>
<p><b>Keystone (0)</b></p>	

<p><b>Color Temp</b> (depends on the selected Application mode)</p>	
<p><b>Brightness</b> (depends on the selected input source)</p>	
<p><b>Contrast</b> (depends on the selected input source)</p>	
<p><b>Color</b> (depends on the selected input source)</p>	
<p><b>Tint (50)</b></p>	<p> When a Video or S-Video signal is connected, the function is only available with NTSC system selected.</p>








 Some picture adjustments are available only when certain input sources are in use. Unavailable adjustments are not shown on the screen.


FUNCTION (default setting / value)	DESCRIPTION
Auto Resize (on)	x
Aspect Ratio (4:3)	 16:9 aspect ratio is only sourced through the Component Video input when being fed an appropriate 16:9 aspect signal. See <a href="#">"Connecting a Component Video source device"</a> on page 22 and <a href="#">"Obtaining a preferred projected image size"</a> on page 15 for details.
H Position (0)	
V Position (0)	
Phase (depends on the selected input source)	
H Size (0)	
Sharpness (15)	


FUNCTION (default setting / value)	DESCRIPTION
Mute (off)	
Volume (5)	
OSD Time (10)	
Quick Cooling (off)	
Password (off)	<p> <b>WARNING:</b> 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.</p> <p> The password will display on-screen when being input.</p>
Change Password	
Reset	<p> The following settings will still remain: Mirror, Language, Password, High Altitude Mode, Phase and H Position.</p>


FUNCTION (default setting / value)	DESCRIPTION
<b>Mirror (Floor front)</b>	
<b>Blank Time (20)</b>	
<b>Source Scan (on)</b>	
<b>Language (English)</b>	◀ ▶ ◀ ▶
<b>Splash Screen (BenQ logo)</b>	

<p><b>High Altitude Mode (off)</b></p>	<div style="text-align: center;">  </div> <div style="border: 1px solid gray; background-color: #f0f0f0; padding: 10px; margin: 10px auto; width: 80%;"> <p style="color: red; text-align: center;">We recommend you use the High Altitude Mode by selecting On when your environment is higher than 3000 feet, or is hotter than 40°C.</p> <p style="text-align: center;">Do you want to turn on High Altitude Mode?</p> <p style="text-align: center;">Yes <b>Auto</b> No </p> </div> <div style="border: 1px solid gray; background-color: #f0f0f0; padding: 10px; margin: 10px auto; width: 80%;"> <p style="color: red; text-align: center;">Current Status</p> <p style="text-align: center;">High Altitude Mode    On</p> <p style="color: blue; text-align: center;">This mode is used for protecting projector from extreme environment and may cause high fan speed.</p> </div>
<p><b>Auto Off (off)</b></p>	<div style="text-align: center;">  </div>
<p><b>Economic Mode (off)</b></p>	<p> Setting the projector in Economic mode extends the lamp timer automatic shutdown feature. For more information on how the total lamp hour is calculated, see "<a href="#">Calculation of lamp hour</a>" on page 43.</p>

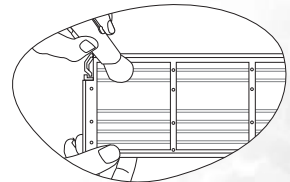
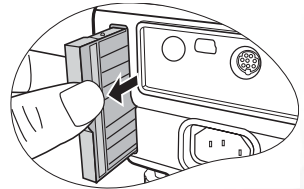
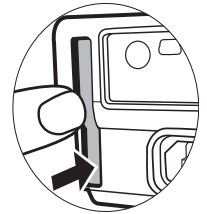
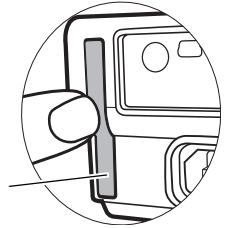
 Some picture adjustments are available only when certain input sources are in use. Unavailable adjustments are not shown on the screen.

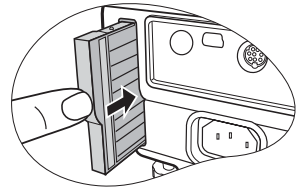
FUNCTION	DESCRIPTION
<b>Source</b>	
<b>Resolution</b>	
<b>Application Mode</b>	
<b>Equivalent Lamp Hour</b>	
<b>System</b>	

 **Never rub the lens with abrasive materials.**

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

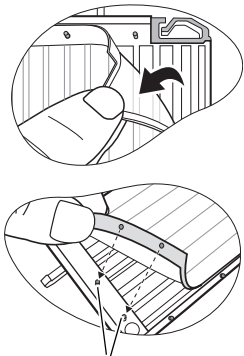
Please check if the filter is clean  
Clean the filter or replace with a new one  
Press "Exit" to leave





Please check  
Filter not well attached

Please re-attach the filter cap  
Otherwise, Power is going to shut down in 1 minute





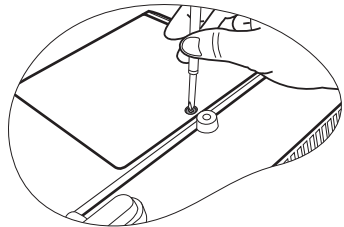
**The Lamp indicator light and Temperature warning light will light up if the lamp becomes too**



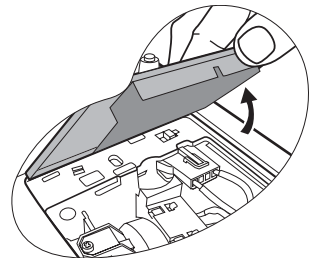
Out Of Lamp Usage Time  
Power Off Automatically To Protect Your Projector  
Change Lamp And Reset The Lamp Timer

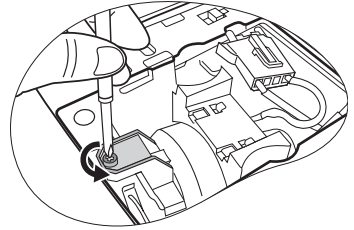
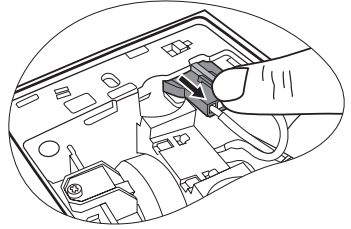


- To reduce the risk of electrical shock, always turn the projector off and disconnect the power cord before changing the lamp.
- To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.
- To reduce the risk of injuries to fingers and damage to 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.

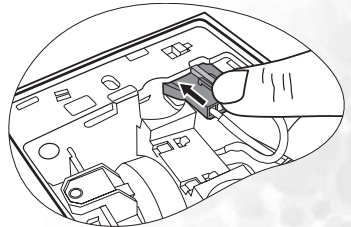
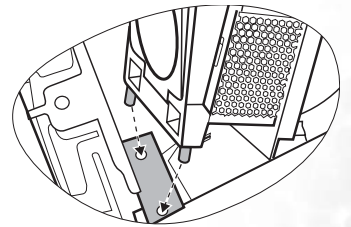
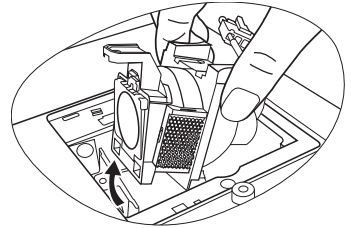


Do not turn the power on with the lamp cover removed.





- **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.**



- **Loose screw may cause a bad connection, which could result in malfunction.**

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

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



Blank -



Light			Status & Description
Power	Temp	Lamp	
Power events			
	-	-	
	-	-	
	-	-	
	-	-	
	-	-	

Light			Status & Description
Power	Temp	Lamp	
Lamp events			
	-		
-	-		

Thermal events		
-	R	-
-	R	R
-	R	G
R	R	R
G	R	R
O	R	R
-	G	R



?

Cause	Remedy
There is no power from the power cable.	Plug the power cord into the AC inlet 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.

?

Cause	Remedy
The video source is not turned on or connected correctly.	Turn the video source on and check that the signal cable is connected correctly.
The projector is not correctly connected to the input source device.	Check the connection.
The input signal has not been correctly selected.	Select the correct input signal with the <b>Source</b> key on the projector or remote control.
The lens cap is still attached to the lens.	Remove the lens cap.

?

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 unit if necessary.
The lens cap is still attached to the lens.	Remove the lens cap.

?

Cause	Remedy
The battery is out of power.	Replace the battery with a new one.
There is an obstacle between the remote control and the projector.	Remove the obstacle.
You are too far away from the projector.	Stand within 6 meters (19.5 feet) of the projector.





 All specifications are subject to change without notice.

## General

## Optical

x

## Electrical

## Mechanical

x

x

## Input terminal

x

x

x

x

## Output

x

x

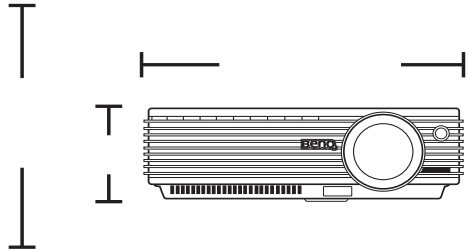
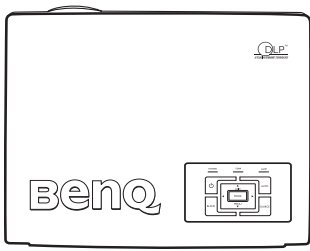
x

## Environmental Requirements

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Frequency (MHz)	Mode
x				x
x				
x				
x				
x				

Signal Format	Horizontal Frequency (kHz)	Vertical Frequency (Hz)

Video mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Color sub-carrier Frequency (MHz)







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