



W750/W770ST
Digital Projector
Home Cinema Series
User Manual

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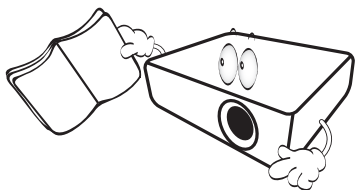
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Thank you for your purchase of this quality BenQ video projector! It has been designed to provide you with an enjoyable home theater viewing experience. For the best results, please read this manual through carefully as it is your guide through the control menus and operation.

Important safety instructions

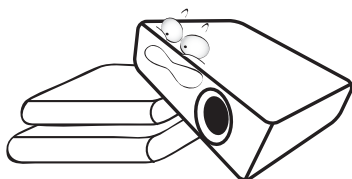
Your projector is designed and tested to meet the latest standards for safety of information technology equipment. However, to ensure safe use of this product, it is important that you follow the instructions mentioned in this manual and marked on the product.

1. Please read this user manual before you operate your projector. Keep this manual in a safe place for future reference.

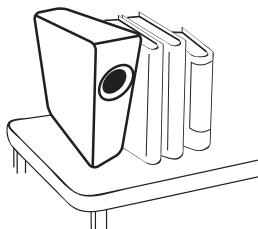


2. Always place the projector on a level, horizontal surface during operation.

- Do not place the projector on an unstable cart, stand, or table as it may fall and be damaged;
- Do not place inflammables near the projector;
- Do not use if tilted at an angle of more than 10 degrees left to right, nor at angle of more than 15 degrees front to back.

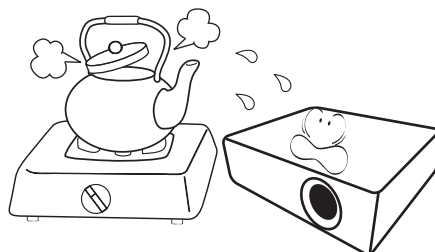


3. Do not store the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage.

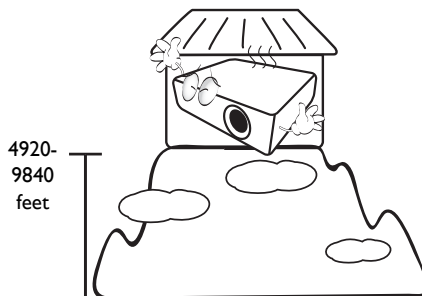


4. Do not place the projector in any of the following environments:

- space that is poorly ventilated or confined. Allow at least 50 cm clearance from walls and free flow of air around the projector;
- locations where temperatures may become excessively high, such as the inside of a car with all windows closed;
- locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shorten the projector's lifespan and darken the screen;

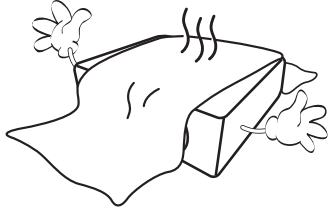


- locations near fire alarms;
- locations with an ambient temperature above 35°C/95°F;
- locations where altitude is higher than 1500 meters/4920 feet above sea level.

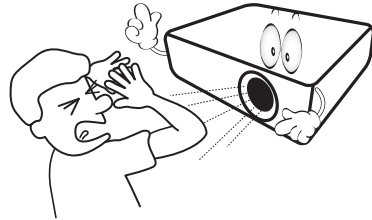


5. Do not block the vents holes while the projector is on (even in standby mode):

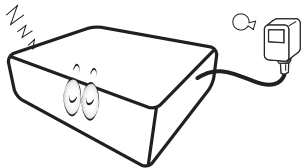
- Do not cover the projector with any item;
- Do not place the projector on a blanket, bedding or any other soft surface.



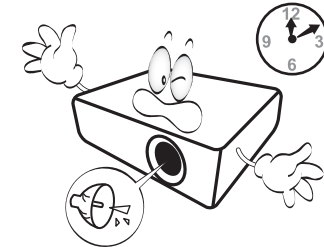
9. Do not look straight into the projector lens during operation. It may harm your sight.



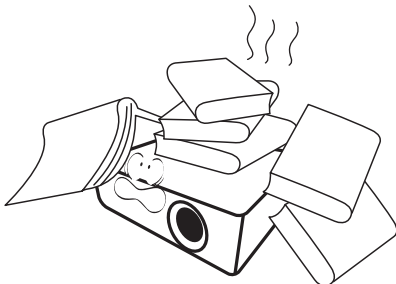
6. In areas where the mains power supply voltage may fluctuate by ± 10 volts, it is recommended that you connect your projector through a power stabilizer, surge protector or uninterruptible power supply (UPS) as appropriate to your situation.



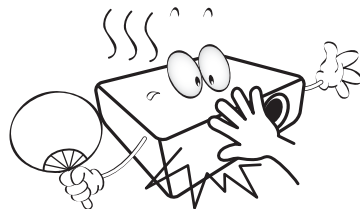
10. Do not operate the projector lamp beyond the rated lamp life. Excessive operation of lamps beyond the rated life could cause a lamp to break on rare occasions.



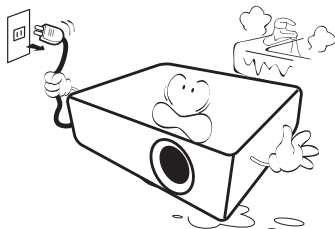
7. Do not step on the projector or place any objects upon it.



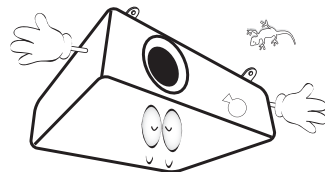
11. The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.



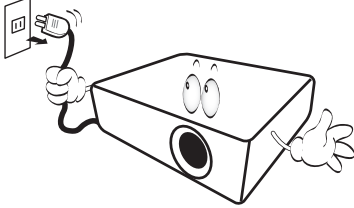
8. Do not place liquids near or on the projector. Liquids spilled into the projector will void your warranty. If the projector does become wet, disconnect it from the power point and call BenQ to have the projector repaired.



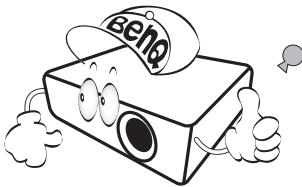
12. This projector is capable of displaying inverted images for ceiling mount installation. Use only BenQ's Ceiling Mount Kit for mounting.



13. Never attempt to replace the lamp assembly until the projector has cooled down and is unplugged from the power supply.

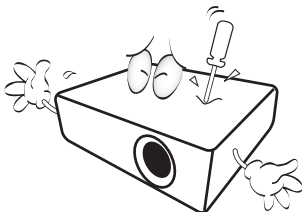


14. When you think service or repair is required, take the projector only to a suitably qualified technician.



15. 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. See page 49.

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



Notice

Please keep the original packing for possible future shipment. If you need to pack your projector after use, adjust the projection lens to an appropriate position, put the lens cushion around the lens, and fit the lens cushion and projector cushion together to prevent damage during transportation.

Moisture condensation

Never operate the projector immediately after moving it from a cold location to a hot location. When the projector is exposed to such a change in temperature, moisture may condense on the crucial internal parts. To prevent the projector from possible damage, do not use the projector for at least 2 hours when there is a sudden change in temperature.

Avoid volatile liquids

Do not use volatile liquids, such as insecticide or certain types of cleaner, near the projector. Do not have rubber or plastic products touching the projector for a long time. They will leave marks on the finish. If cleaning with a chemically treated cloth, be sure to follow the cleaning product's safety instructions.

Disposal

This product contains the following materials which are harmful to human bodies and environment.


- Lead, which is contained in solder.
- Mercury, which is used in the lamp.

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

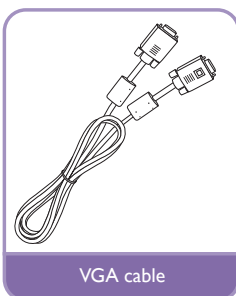
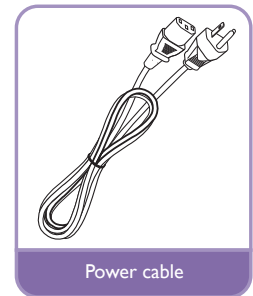
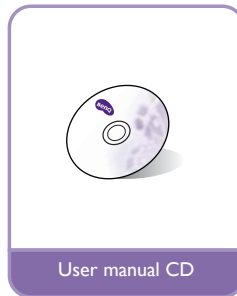
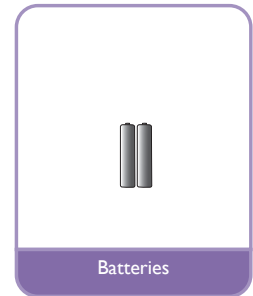
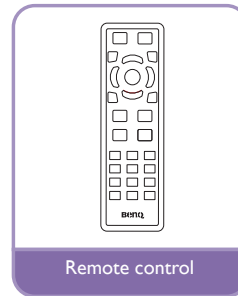
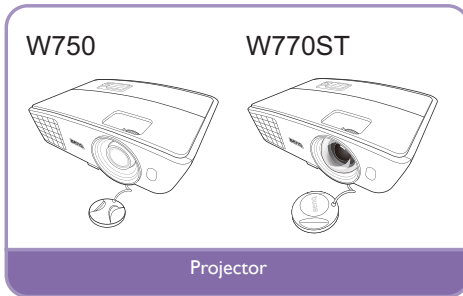
Overview

Shipping contents

Carefully unpack and verify that you have the items below. Some of the items may not be available depending on your region of purchase. Please check with your place of purchase.

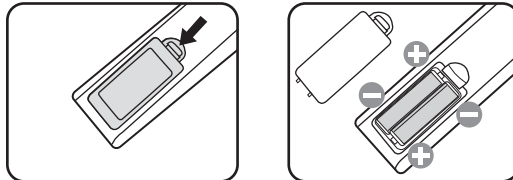
 **Some of the accessories may vary from region to region.**

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



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.



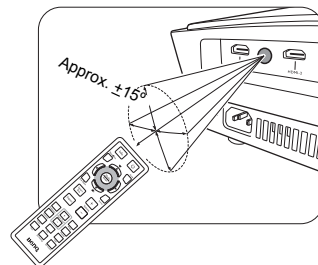
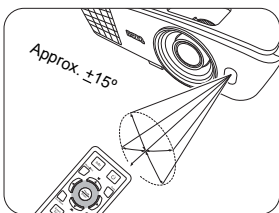
- ⚠ • **Avoid leaving the remote control and batteries in an excessive heat or humid environment like the kitchen, bathroom, sauna, sunroom or in a closed car.**
- **Replace only with the same or equivalent type recommended by the battery manufacturer.**
- **Dispose of the used batteries according to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

Remote control effective range

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

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

- Operating the projector from the front
- Operating the projector from the rear



⚠ 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 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.

Projector features

- **High picture quality**

The projector provides excellent picture quality due to its high resolution, excellent home theater brightness, high contrast ratio, vivid color and rich gray-scale reproduction.

- **High brightness**

The projector features super high brightness to achieve excellent picture quality in ambient light conditions, outperforming ordinary projectors.

- **Vivid color reproduction**

The projector features a 6-segment color wheel to produce realistic color depth and range unattainable with lesser segment color wheels.

- **Rich gray-scale**

When viewed in a darkened environment, the automatic gamma control provides excellent gray-scale display which reveals details in shadows and in night or darkened scenes.

- **Wide variety of inputs and video formats**

The projector supports a wide variety of inputs for connection to your video and PC equipment, including component video, S-Video, and composite video, as well as dual HDMI, PC, and an output trigger for connection to automated screen and environment lighting systems.

- **3D function**

To enjoy the 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images through HDMI.

- **Built-in speaker(s)**

Built-in speaker(s) providing mixed mono audio when an audio input is connected.

- **Short throw ratio (W770ST)**

The short throw ratio projection provides 1080p picture quality with shorter projection distance.

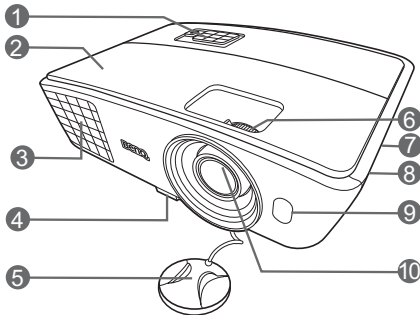
- **SmartEco**

SmartEco™ technology saves lamp power consumption up to 70% depending on the content brightness level when **SmartEco** mode is selected.

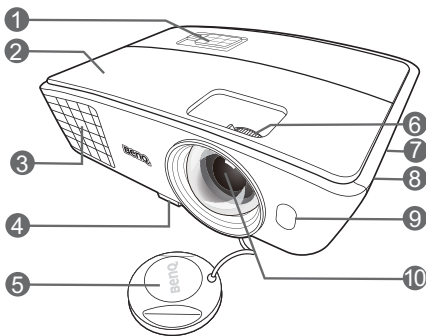
Projector exterior view

Front and upper side view

W750

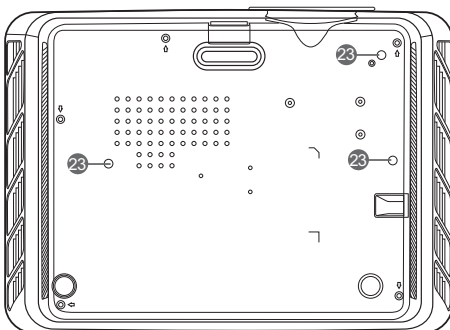
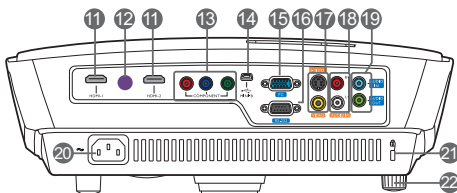


W770ST



Rear and lower side view

See ["Connecting with video equipment"](#) on page 19 for connection details.

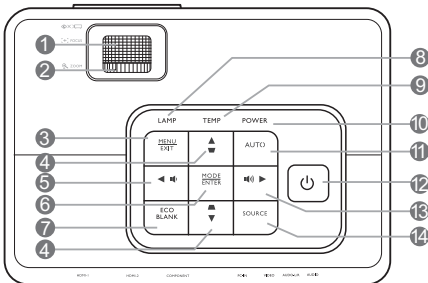


1. Control panel (See ["Control panel"](#) on page 11 for details.)
2. Lamp cover
3. Vent (heated air exhaust)
4. Quick-release button
5. Lens cap
6. Focus and Zoom ring
7. Vent (cool air intake)
8. Speaker grill
9. Front IR sensor
10. Projection lens
11. HDMI ports
12. Rear IR sensor
13. Component Video inputs (RCA) support Y/Pb/Pr or Y/Cb/Cr video signal
14. Mini USB port (Used for service)
15. RGB (PC)/Component video (YPbPr/YCbCr) signal input jack
16. RS-232 control port Used to interface with a PC or home theater control/automation system.
17. S-Video input (mini 4-pin DIN) Composite Video input (RCA)
18. Audio (L/R) input jacks
19. Audio input jack Audio output jack
20. AC Power cable inlet
21. Kensington lock slot
22. Rear adjuster foot
23. Ceiling mount holes

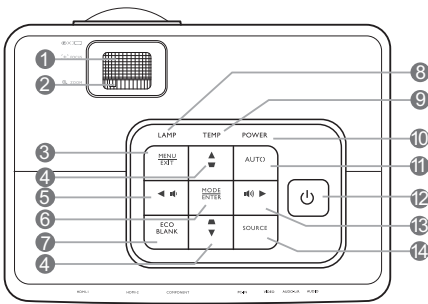
Controls and functions

Control panel

W750



W770ST



1. Focus ring

Adjusts the focus of the projected image.

2. Zoom ring

Adjusts the size of the image.

3. MENU/EXIT

Turns on the On-Screen Display (OSD) menu.
Goes back to previous OSD menu, exits and saves menu settings.

4. Keystone/Arrow keys (▽ / ▲ Up, ▲ / ▼ Down)

Manually corrects distorted images resulting from an angled projection.

When the On-Screen Display (OSD) menu is activated, the #4, #5, and #13 keys are used as directional arrows to select the desired menu items and to make adjustments.

5. ◀ Left/ 🔊

Decreases the projector volume.

When the On-Screen Display (OSD) menu is activated, the #4, #5, and #13 keys are used as directional arrows to select the desired menu items and to make adjustments.

6. MODE/ENTER

Selects an available picture setup mode.

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

7. ECO BLANK

Used to make the screen go blank.

8. LAMP indicator light

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

9. TEMPERATURE warning light

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

10. POWER indicator light

Lights up or flashes when the projector is under operation.

11. AUTO

Automatically determines the best picture timings for the displayed image.

12. 🔌 POWER

Toggles the projector between standby mode and on.

13. ▶ Right/ 🔊

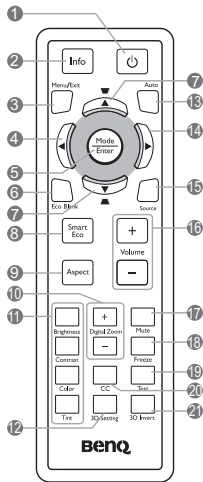
Increases the projector volume.

When the On-Screen Display (OSD) menu is activated, the #4, #5, and #13 keys are used as directional arrows to select the desired menu items and to make adjustments.

14. SOURCE

Displays the source selection bar.

Remote control



1. **POWER**

Toggles the projector between standby mode and on.

2. **Info**

Shows the status information of the projector.

3. **MENU/EXIT**

Turns on the On-Screen Display (OSD) menu. Goes back to previous OSD menu, exits and saves menu settings.

4. **◀ Left**

When the On-Screen Display (OSD) menu is activated, the #4, #7, and #14 keys are used as directional arrows to select the desired menu items and to make adjustments.

5. **MODE/ENTER**

Selects an available picture setup mode. Activates the selected On-Screen Display (OSD) menu item.

6. **ECO BLANK**

Used to make the screen go blank.

7. **Keystone/Arrow keys (◄ /▲ Up, ▲ / ▼ Down)**

Manually corrects distorted images resulting from an angled projection.

When the On-Screen Display (OSD) menu is activated, the #4, #7, and #14 keys are used as directional arrows to select the desired menu items and to make adjustments.

8. **SmartEco**

Displays the lamp mode selection bar. (**Normal/Economic/SmartEco**)

9. **Aspect**

Selects the display aspect ratio.

10. **Digital Zoom (+, -)**

Magnifies or reduces the projected picture size.

11. **Picture quality adjustment keys (Brightness, Contrast, Color, Tint)**

Displays the setting bars for adjustment of the appropriate picture quality values.

12. **3D Setting**

Enters 3D settings directly.

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, #7, and #14 keys are used as directional arrows to select the desired menu items and to make adjustments.

15. **SOURCE**

Displays the source selection bar.

16. **Volume +/-**

Adjusts the sound level.

17. **Mute**

Toggles projector audio between on and off.

18. **Freeze**

Freezes the projected image.

19. **Test**

Displays the test pattern.

20. **CC**

Displays the video term description on screen which is provided for hard-of-hearing viewers.

21. **3D Invert**

Toggles the invert function between on and off.

Positioning your projector

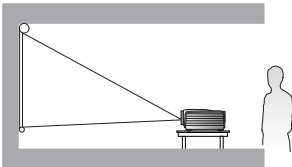
Choosing a location

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

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.

1. Front:

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

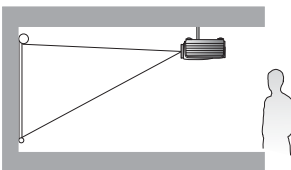


2. Front Ceiling:

Select this location with the projector suspended 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** after you turn the projector on.

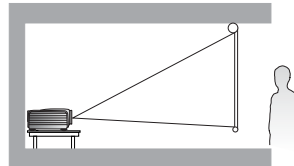


3. Rear:

Select this location with the projector placed near the floor behind the screen.

Note that a special rear projection screen is required.

*Set **Rear** after you turn the projector on.

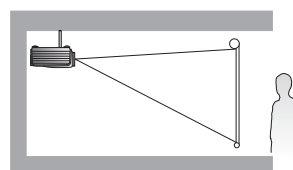


4. Rear Ceiling:

Select this location with the projector suspended 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** after you turn the projector on.



*To set the projector position:

1. Press **MENU/EXIT** on the projector or remote control and then press **◀/▶** until the **System Setup : Basic** menu is highlighted.
2. Press **▲/▼** to highlight **Projector Position** and press **◀/▶** until the correct position is selected.

Obtaining a preferred projected image size

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

The projector should always be placed horizontally level (like flat on a table), and positioned directly perpendicular 90° right-angle square) to the screen. This prevents image distortion caused by angled projections (or projecting onto angled surfaces). If the projector is mounted on a ceiling, it must be mounted upside-down.

If the projector is positioned further away from the screen, the projected image size increases, and the vertical offset also increases proportionately.

When determining the positions of the screen and projector, you will need to account for both the projected image size and the vertical offset dimension, which are directly proportional to the projection distance.

How to determine the position of the projector for a given screen size

1. Determine the aspect ratio of your screen, 16:9 or 4:3?
2. Refer to the table and find the closest match to your screen size in the left columns labelled "[Screen dimensions](#)". Using this value, look across this row to the right to find the corresponding average distance from screen value in the column labelled "[Average](#)". This is the projection distance.
3. Decide the exact position of your projector according to the position of your screen and the adjustable lens shift range.

<Example>

W750: If you are using a 120-inch, 4:3-aspect-ratio screen, please refer to "[The screen aspect ratio is 4:3 and the projected picture is 16:9](#)". The average projection distance is 3512 mm.

How to determine the recommended screen size for a given distance

This method can be used for situations where you have purchased this projector and would like to know what screen size will fit in your room.

The maximum screen size is limited by the physical space available in your room.

1. Determine the aspect ratio of your screen, 16:9 or 4:3?
2. Measure the distance between the projector and where you want to position the screen. This is the projection distance.
3. Refer to the table and find the closest match to your measurement in the average distance from screen column labelled "[Average](#)". Check that your measured distance is between the min. and max. distances listed on either side of the average distance value.
4. Using this value, look across that row to the left to find the corresponding screen diagonal listed in that row. That is the projected image size of the projector at that projection distance.

<Example>

W750: If you have a 16:9-aspect-ratio screen and your measured projection distance was 4500 mm, please refer to "[The screen aspect ratio is 16:9 and the projected picture is 16:9](#)". The closest match in the "[Average](#)" column is 4464 mm. Looking across this row shows that a 140-inch screen is required.

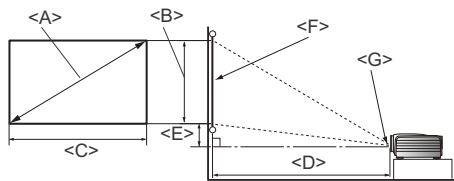
Checking the min. and max. projection distance values in the columns of "[Projection distance <D> \[mm\]](#)" [on page 15](#) indicates that the 4500 mm measured projection distance will also fit the 130 and 150-inch size screens. The projector can be adjusted (using the zoom control) to display on these different screen sizes at the projection distance. Be aware that these different screens have different vertical offset values.

If you place the projector in a different position (to that recommended), you will have to tilt it down or up to center the image on the screen. In these situations, some image distortion will occur. Use the Keystone function to correct the distortion. See "[Correcting picture distortion](#)" [on page 27](#) for details.

Projection dimensions

Installation for a 16:9 ratio screen

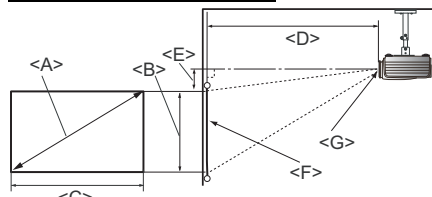
Floor Installation



<F>: Screen

<G>: Center of lens

Ceiling Installation



<F>: Screen

<G>: Center of lens

W750

■ The screen aspect ratio is 16:9 and the projected picture is 16:9

Screen dimensions			Projection distance <D> [mm]			Vertical offset <E> [mm]
Diagonal <A> [inch (mm)]	Height [mm]	Width <C> [mm]	Min distance (with max zoom)	Average	Max distance (with min zoom)	
50 (1270)	623	1107	1449	1594	1739	53
60 (1524)	747	1328	1739	1913	2087	64
70 (1778)	872	1550	2029	2232	2435	74
80 (2032)	996	1771	2319	2551	2783	85
90 (2286)	1121	1992	2609	2870	3130	95
100 (2540)	1245	2214	2899	3188	3478	106
110 (2794)	1370	2435	3188	3507	3826	116
120 (3048)	1494	2657	3478	3826	4174	127
130 (3302)	1619	2878	3768	4145	4522	138
140 (3556)	1743	3099	4058	4464	4870	148
150 (3810)	1868	3321	4348	4783	5217	159
160 (4064)	1992	3542	4638	5101	5565	169
170 (4318)	2117	3763	4928	5420	5913	180
180 (4572)	2241	3985	5217	5739	6261	191
190 (4826)	2366	4206	5507	6058	6609	201
200 (5080)	2491	4428	5797	6377	6957	212
210 (5334)	2615	4649	6087	6696	7304	222
220 (5588)	2740	4870	6377	7014	7652	233
230 (5842)	2864	5092	6667	7333	8000	243
240 (6096)	2989	5313	6957	7652	8348	254
250 (6350)	3113	5535	7246	7971	8696	265
260 (6604)	3238	5756	7536	8290	9043	275
270 (6858)	3362	5977	7826	8609	9391	286
280 (7112)	3487	6199	8116	8928	9739	296
290 (7366)	3611	6420	8406	9246	10087	307
300 (7620)	3736	6641	8696	9565	10435	318

☞ The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your dealer for assistance.

W770ST

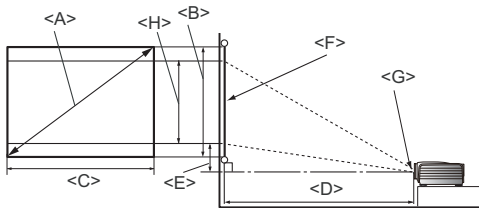
■ The screen aspect ratio is 16:9 and the projected picture is 16:9

Screen dimensions			Projection distance <D> [mm]			Vertical offset <E> [mm]
Diagonal <A> [inch (mm)]	Height [mm]	Width <C> [mm]	Min distance (with max zoom)	Average	Max distance (with min zoom)	
40 (1016)	498	886	640	704	768	37
50 (1270)	623	1107	800	880	960	47
60 (1524)	747	1328	960	1056	1152	56
70 (1778)	872	1550	1120	1232	1344	65
80 (2032)	996	1771	1280	1408	1536	75
90 (2286)	1121	1992	1440	1584	1728	84
100 (2540)	1245	2214	1600	1760	1920	93
110 (2794)	1370	2435	1760	1936	2112	103
120 (3048)	1494	2657	1920	2112	2304	112
130 (3302)	1619	2878	2080	2288	2496	121
140 (3556)	1743	3099	2240	2464	2688	131
150 (3810)	1868	3321	2400	2640	2880	140
160 (4064)	1992	3542	2560	2816	3072	149
170 (4318)	2117	3763	2720	2992	3264	159
180 (4572)	2241	3985	2880	3168	3456	168
190 (4826)	2366	4206	3040	3344	3648	177
200 (5080)	2491	4428	3200	3520	3840	187
210 (5334)	2615	4649	3360	3696	4032	196
220 (5588)	2740	4870	3520	3872	4224	205
230 (5842)	2864	5092	3680	4048	4416	215
240 (6096)	2989	5313	3840	4224	4608	224
250 (6350)	3113	5535	4000	4400	4800	233
260 (6604)	3238	5756	4160	4576	4992	243
270 (6858)	3362	5977	4320	4752	5184	252
280 (7112)	3487	6199	4480	4928	5376	262
290 (7366)	3611	6420	4640	5104	5568	271
300 (7620)	3736	6641	4800	5280	5760	280

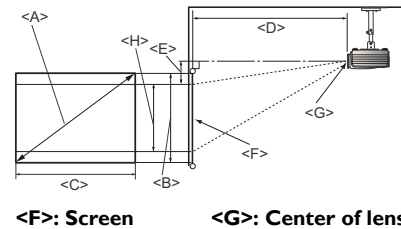
☞ The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your dealer for assistance.

Installation for a 4:3 ratio screen

Floor Installation



Ceiling Installation



<F>: Screen

<G>: Center of lens

W750


- The screen aspect ratio is 4:3 and the projected picture is 16:9

Screen dimensions			Projection distance <D> [mm]			Lowest/ Highest lens position <E> [mm]	Image height <H> [mm]
Diagonal <A> [inch (mm)]	Height [mm]	Width <C> [mm]	Min distance (with max zoom)	Average	Max distance (with min zoom)		
50 (1270)	762	1016	1330	1463	1596	49	572
60 (1524)	914	1219	1596	1756	1916	58	686
70 (1778)	1067	1422	1862	2049	2235	68	800
80 (2032)	1219	1626	2128	2341	2554	78	914
90 (2286)	1372	1829	2394	2634	2873	87	1029
100 (2540)	1524	2032	2661	2927	3193	97	1143
110 (2794)	1676	2235	2927	3219	3512	107	1257
120 (3048)	1829	2438	3193	3512	3831	117	1372
130 (3302)	1981	2642	3459	3805	4150	126	1486
140 (3556)	2134	2845	3725	4097	4470	136	1600
150 (3810)	2286	3048	3991	4390	4789	146	1715
160 (4064)	2438	3251	4257	4683	5108	155	1829
170 (4318)	2591	3454	4523	4975	5427	165	1943
180 (4572)	2743	3658	4789	5268	5747	175	2057
190 (4826)	2896	3861	5055	5560	6066	185	2172
200 (5080)	3048	4064	5321	5853	6385	194	2286
210 (5334)	3200	4267	5587	6146	6705	204	2400
220 (5588)	3353	4470	5853	6438	7024	214	2515
230 (5842)	3505	4674	6119	6731	7343	223	2629
240 (6096)	3658	4877	6385	7024	7662	233	2743
250 (6350)	3810	5080	6651	7316	7982	243	2858
260 (6604)	3962	5283	6917	7609	8301	253	2972
270 (6858)	4115	5486	7183	7902	8620	262	3086
280 (7112)	4267	5690	7449	8194	8939	272	3200
290 (7366)	4420	5893	7715	8487	9259	282	3315
300 (7620)	4572	6096	7982	8780	9578	291	3429

☞ The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your dealer for assistance.






■ The screen aspect ratio is 4:3 and the projected picture is 16:9

Screen dimensions			Projection distance <D> [mm]			Lowest/ Highest lens position <E> [mm]	Image height <H> [mm]
Diagonal <A> [inch (mm)]	Height [mm]	Width <C> [mm]	Min distance (with max zoom)	Average	Max distance (with min zoom)		
45 (1143)	686	914	661	727	793	39	514
50 (1270)	762	1016	734	808	881	43	572
60 (1524)	914	1219	881	969	1057	51	686
70 (1778)	1067	1422	1028	1131	1234	60	800
80 (2032)	1219	1626	1175	1292	1410	69	914
90 (2286)	1372	1829	1322	1454	1586	77	1029
100 (2540)	1524	2032	1469	1615	1762	86	1143
110 (2794)	1676	2235	1615	1777	1939	94	1257
120 (3048)	1829	2438	1762	1939	2115	103	1372
130 (3302)	1981	2642	1909	2100	2291	111	1486
140 (3556)	2134	2845	2056	2262	2467	120	1600
150 (3810)	2286	3048	2203	2423	2643	129	1715
160 (4064)	2438	3251	2350	2585	2820	137	1829
170 (4318)	2591	3454	2497	2746	2996	146	1943
180 (4572)	2743	3658	2643	2908	3172	154	2057
190 (4826)	2896	3861	2790	3069	3348	163	2172
200 (5080)	3048	4064	2937	3231	3525	171	2286
210 (5334)	3200	4267	3084	3392	3701	180	2400
220 (5588)	3353	4470	3231	3554	3877	189	2515
230 (5842)	3505	4674	3378	3716	4053	197	2629
240 (6096)	3658	4877	3525	3877	4230	206	2743
250 (6350)	3810	5080	3672	4039	4406	214	2858
260 (6604)	3962	5283	3818	4200	4582	223	2972
270 (6858)	4115	5486	3965	4362	4758	231	3086
280 (7112)	4267	5690	4112	4523	4935	240	3200
290 (7366)	4420	5893	4259	4685	5111	249	3315
300 (7620)	4572	6096	4406	4846	5287	257	3429

 The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your dealer for assistance.

Connecting with video equipment


You can connect the projector to any type of video equipment, such as a VCR, DVD player, Blu-ray player, digital tuner, cable or satellite decoder, video game console or digital camera. You can also connect it to a desktop or laptop PC or Apple Macintosh system. You need only connect the projector to a source device using just one of the connecting methods, however each provides a different level of video quality. The method you choose will most likely depend upon the availability of matching terminals on both the projector and the Video source device as described below:

Terminal name	Terminal appearance	Reference	Picture quality
HDMI		"Connecting HDMI devices" on page 19	● Best
Component Video		"Connecting component-video devices" on page 20	● Better
S-Video		"Connecting S-Video or video devices" on page 20	● Good
Video		"Connecting S-Video or video devices" on page 20	○ Normal
PC (D-SUB)		"Connecting a computer" on page 21	● Better

Preparations

When connecting a signal source to the projector, be sure to:

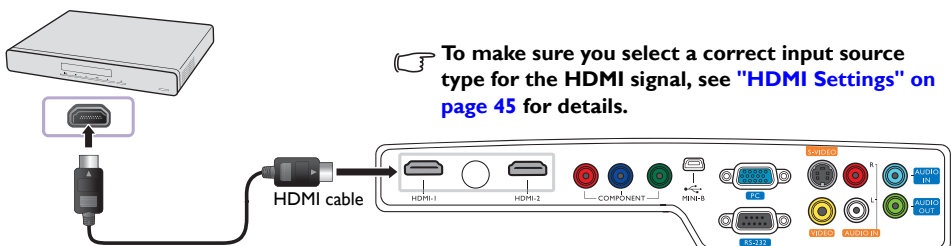
1. Turn off all equipment before making any connections.
2. Use only the correct type cables for each source with proper type plugs.
3. Ensure that all cable plugs are firmly fitted to the equipment jacks.

 **Note that all cables shown in the following connection diagrams may not be supplied with the projector (See "Shipping contents" on page 6 for details). Most cables are commercially available from electronics stores.**

Connecting HDMI devices

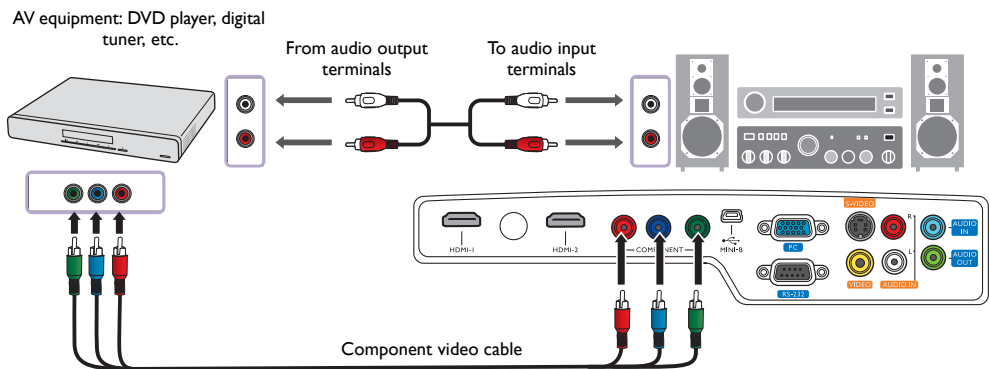
HDMI (High-Definition Multimedia Interface) supports uncompressed video data transmission between compatible devices like DTV tuners, DVD players, Blu-ray players and displays over a single cable. It provides pure digital viewing and listening experience. You should use an HDMI cable when making connection between the projector and HDMI devices.

HDMI device: DVD player, digital tuner, etc.



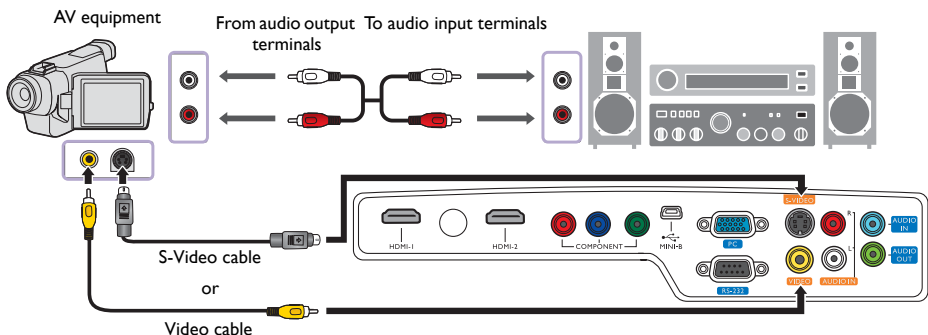
Connecting component-video devices

Be sure to match the corresponding colors between the cables and the terminals. The RCA type component video jacks are provided for connection to video output devices. You should also connect the separate audio cable to a suitable audio amplifier.



Connecting S-Video or video devices

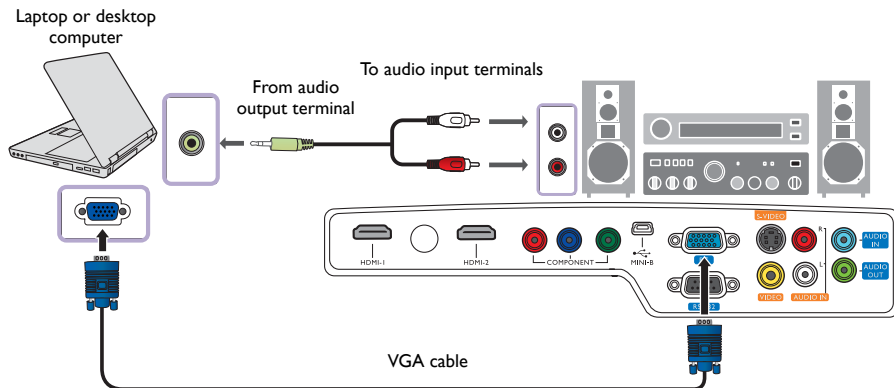
You need only connect S-Video or composite Video cable from the same device, never both at the same time. You should also connect the separate audio cable to a suitable audio amplifier.



- If you have already made a **Component Video** connection between the projector and the video source device, you need not connect to this device again using an **S-Video** or **composite Video** connection as this makes an unnecessary second connection of poorer picture quality. You need only connect using a **composite Video** connection if both **Component Video** and **S-Video** are not supplied on the video source device (for example, with some analog video cameras).
- If the selected video image is not displayed after the projector is turned on and the correct video source has been selected, please check that the video source device is turned on and operating correctly. Also check that the signal cables have been connected correctly.

Connecting a computer

Connect the projector to a computer with a VGA cable.




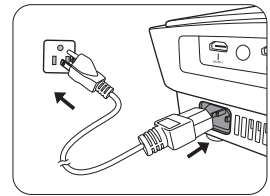
Many laptops do not turn on their external video ports when connected to a projector. Usually a key combination like Fn + F3 or CRT/LCD key turns the external display on/off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol on the laptop. Press Fn and the labeled function key simultaneously. Refer to your laptop's documentation to discover your laptop's key combination.

Using the projector

Preparations



1. Plug in and turn all of the connected equipment on.
2. If not already in, plug the supplied power cable into the AC inlet on the rear of the projector.
3. Plug the power cable into a wall power outlet and turn the wall switch on.

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



Turning the projector on

Follow the steps below.

1. Make sure the Power light is orange after power has been applied.
2. Press and hold **POWER** (⏻) to turn the projector on. As soon as the lamp lights up, a "**Power On Tone**" will be heard. The **POWER indicator light** flashes green and stays green when the projector is on.
 To turn off the ring tone, see "[Turning off the Power On/Off Ring Tone](#)" on page 34 for details.
3. The fans will start operating, and a start-up image displays on the screen for a few seconds while it warms up.
 The projector will not respond to further commands while it is warming up.
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 25 for details.
5. "Source Searching..." will be displayed on the screen before the projector identifies the input source. This message will remain on the screen until a valid signal is detected. See "[Selecting an input source](#)" on page 23 for details.
6. If the horizontal frequency of the input source exceeds the range of the projector, the message "No Signal" will be displayed on the screen. This message will remain on-screen until you change the input source to an appropriate one.

Selecting an input source

The projector can be connected to multiple equipment at the same time. When the projector is first turned on, it will attempt to reconnect with the input source which was in use when the projector was last shut down.



NOTE: When automatically searching for a valid input source, the projector cycles through the available signals following the sequence from top to bottom as the source selection bar shows.

To select the video source:

- Using the remote control or projector
 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**.
- Using the OSD menu
 1. Press **MENU/EXIT** and then press **◀/▶** until the **System Setup : Basic** menu is highlighted.
 2. Press **▼** to highlight **Input Source** and press **MODE/ENTER**. The source selection bar displays.
 3. Press **▲/▼** repeatedly until your desired signal is selected and press **MODE/ENTER**.

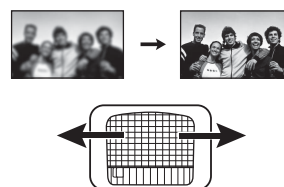
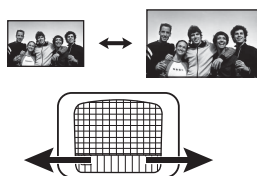
Once detected, the selected source information will display on the screen for seconds. If there are multiple pieces of equipment connected to the projector, you can go back to the source selection bar again to search for other signals.

You can also rename the source:

1. Press **MENU/EXIT** and then press **◀/▶** until the **System Setup : Basic** menu is highlighted.
 2. Press **▼** to highlight **Source Rename** and press **MODE/ENTER**. The **Source Rename** page displays.
 3. Press **▲/▼/◀/▶** until your desired character is selected and press **MODE/ENTER**.
- If you want the projector to automatically search for the signals, select **On** in the **System Setup : Basic > Auto Source Search** menu.

Fine-tuning the image size and clarity

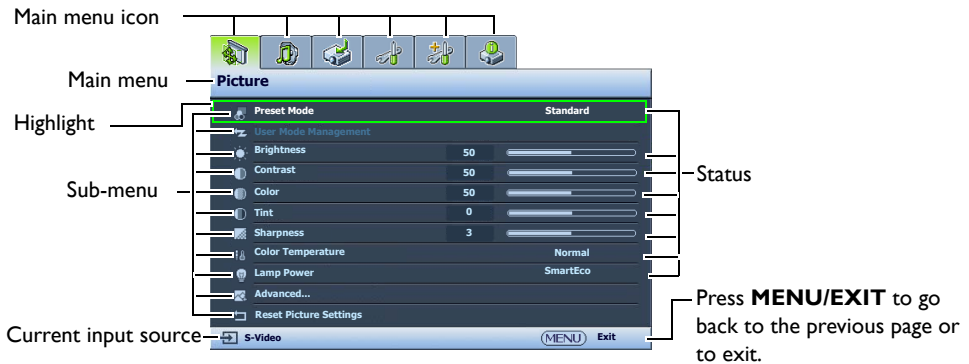
1. Adjust the projected picture to the size that you need using the zoom ring.
2. Sharpen the picture by rotating the focus ring.



Using the menus

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

Below is the overview of the OSD menu.



To use the OSD menus, please set the OSD menu to your familiar language.

1. Press **MENU/EXIT** on the projector or remote control to turn the OSD menu on.
3. Press **▼** to highlight **Language** and press **MODE/ENTER**.
4. Press **▲/▼/◀/▶** to select a preferred language.



2. Use **◀/▶** to highlight the **System Setup : Basic** menu.



5. Press **MENU/EXIT** twice* on the projector or remote control to leave and save the settings.

*The first press leads you back to the main menu and the second press closes the OSD menu.

Securing the projector

Using a security cable lock

The projector has to be installed in a safe place to prevent theft. Otherwise, purchase a lock, such as the Kensington lock, to secure the projector. You can locate a Kensington lock slot on the projector. See item 21 on page 10 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. Once the password is set and this function is selected, the projector is password-protected. Users who do not know the correct password can not use the projector.

! 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 activated, the projector cannot be used unless the correct password is entered every time the projector is started.

1. Press **MENU/EXIT** on the projector or remote control and then press **◀/▶** until the **System Setup : Advanced** menu is highlighted.
2. Press **▼** to highlight **Password** and press **MODE/ENTER**. The **Password** page displays.
3. Highlight **Change Password** and press **MODE/ENTER**. The **Input Password** page displays.
4. As the picture indicates, the four arrow keys (**▲**, **▶**, **▼**, **◀**) respectively represent 4 digits (1, 2, 3, 4). According to the password you desire to set, press the arrow keys on the remote control or projector to enter six digits for the password. Confirm the new password by re-entering the new password. Once the password is set, the OSD menu returns to the **Password** page.



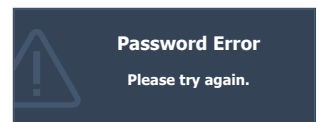
IMPORTANT: The digits being input will display as asterisks on-screen. Write your selected password down here in this manual in advance or right after the password is entered so that it is available to you should you ever forget it.

Password: _ _ _ _ _

5. Highlight **Power On Lock** and then press **◀/▶** to select **On**.
6. Confirm the current password.
7. To leave the OSD menu, press **MENU/EXIT**.

If you forget the password

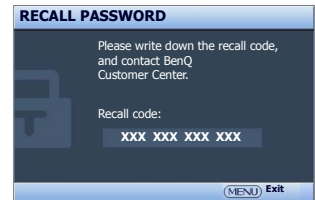
If the password function is activated, you will be asked to enter the six-digit password every time you turn on the projector. If you enter the wrong password, the password error message as pictured to the right displays lasting for three seconds, and the **Input Password** page follows. You can retry 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 26 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. Make sure the **Input Password** page displays on screen. 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. Press **MENU/EXIT** on the projector or remote control and then press **◀/▶** until the **System Setup : Advanced** menu is highlighted.
2. Press **▲/▼** to highlight **Password** and press **MODE/ENTER**. The **Password** page displays.
3. Highlight **Change Password** and press **MODE/ENTER**. The **Input Current Password** page displays.
4. Enter the old password.
 - If the password is correct, the message "**Input New Password**" displays.
 - If the password is incorrect, the password error message displays lasting for three seconds, and the message "**Input Current Password**" displays for your retry. You can either press **MENU/EXIT** to cancel the change or try another password.
5. 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.

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

Disabling the password function

To disable password protection, go back to the **System Setup : Advanced > Password** menu. Highlight **Power On Lock** and then press **◀/▶** to select **Off**. The message "**Input Current Password**" displays. Enter the current password.

- If the password is correct, the OSD menu returns to the **Password** page with "**Off**" shown in the row of **Power On Lock**. You will not have to enter the password next time when turning on the projector.
- If the password is incorrect, the password error message displays lasting for three seconds, and the message "**Input Current Password**" displays for your retry. You can either press **MENU/EXIT** to cancel the change or try another password.

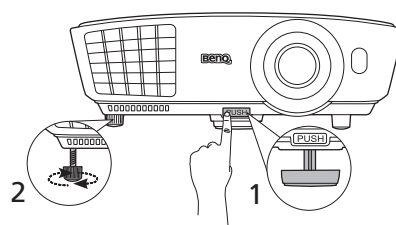
Note that though the password function is disabled, you need to keep the old password in hand should you ever need to re-activate the password function by entering the old password.

Adjusting the projected image

Adjusting the projection angle

The projector is equipped with 1 quick-release adjuster foot and 1 rear adjuster foot. These adjusters change the image height and 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 screen and the projector are not perpendicular to each other, the projected image becomes vertical trapezoidal. To correct this problem, see ["Correcting picture distortion" on page 27](#) for details.**

Correcting picture distortion

Keystoning occurs when the projector is not perpendicular to the screen and is where the projected picture displays visible as a trapezoid shape like either of the following:

- Two parallel sides (left and right, or top and bottom) but is noticeably wider on either side.
- No parallel sides.

To correct the picture's shape, you can perform the following steps.

1. Adjust the projection angle. Move the projector to be in front of the center of the screen with the center of the lens level with the screen.
2. If the picture is still distorted, or the projector is unable to be positioned as described above, you will need to manually correct the picture.
 - Using the remote control or projector
 - i. Press one of the Arrow/Keystone keys on the remote control or projector (Up ▲/▼, Down ▼/▲) to display the **Keystone** page.
 - ii. See step [iii](#) below for further operation.
 - Using the OSD menu
 - i. Press **MENU/EXIT** and then press ◀/▶ until the **Display** menu is highlighted.
 - ii. Press ▼ to highlight **Keystone** and press **MODE/ENTER**. The keystone correction page displays.
 - iii. Press the key whose keystone icon is opposite to the shape of the projected picture. Continue pressing the same key or press the other keys until you are satisfied with the shape. The values on the lower portion of the page change while pressing. When the values reach their maximum or minimum with repeated key presses, the picture's shape will stop changing. You will not be able to change the picture further in that direction.



Using the preset and user modes

Selecting a preset mode

The projector is preset with several pre-defined picture modes so that you can choose one to suit your operating environment and input source picture type.

To select a picture mode that suits your need:

1. Press **MENU/EXIT** and then press ◀/▶ until the **Picture** menu is highlighted.
2. Press ▼ to highlight **Preset Mode**.
3. Press ◀/▶ until your desired mode is selected.

These modes consist of preset values suitable for various projection situations as described below:

- **Cinema:** With well-balanced color saturation and contrast with a low brightness level, this is most suitable for enjoying movies in a totally dark environment (as you would find in a commercial cinema).
- **Dynamic:** Maximizes the brightness of the projected image. This mode is suitable for environments where extra-high brightness is required, such as using the projector in well lit rooms.
- **Standard:** It is slightly brighter than **Cinema** mode, and suitable for use in rooms where there is a small amount of ambient light.
- **3D:** It is optimized to bring up 3D effects when watching 3D contents.

 **This mode is only available when 3D function is enabled.**

- **User 1/User 2/User 3:** Recalls the customized settings. See "[Setting the User 1/User 2/User 3 mode](#)" on page 28 for details.

 **User 3 is only available when 3D mode is enabled.**

Fine-tuning the selected picture mode

The pre-defined picture mode settings can be altered via the available items shown in the **Picture** menus.

To fine-tune the picture mode:

1. Press **MENU/EXIT** and then press ◀/▶ until the **Picture** menu is highlighted.
2. Press ▼ to highlight the item you want to adjust and press ◀/▶ to set your desired value. Your selection is automatically stored in the projector and associated with that input source.
See "[Fine-tuning the picture quality](#)" on page 29 and "[Advanced picture quality controls](#)" on page 31 for details.

Each time you change the picture mode, the projector also changes the setting to the one which was last set for that particular picture mode on that particular input. If you change the input source, the most recently used picture mode and settings for that input and resolution will be restored.

Setting the User 1/User 2/User 3 mode

There are three 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 selected User mode) as a starting point and customize the settings.

1. In the **Picture** menu, highlight **Preset Mode** and press ◀/▶ to select **User 1**, **User 2**, or **User 3** mode.
2. Press ▼ to highlight **User Mode Management**.

 **This function is only available when User 1, User 2, or User 3 mode is selected up in the Preset Mode sub-menu item.**

3. Press **MODE/ENTER** to display the **User Mode Management** page.

4. Press ▼ to highlight **Reference Mode** and press **MODE/ENTER**.
5. Press ▼ to highlight a picture mode that is closest to your need and press **MODE/ENTER** and **MENU/EXIT** to go back to the **User Mode Management** page.
6. Here you can rename the **User 1**, **User 2**, or **User 3** mode by press ▼ to highlight **Rename User Mode** and press **MODE/ENTER**. The **Rename User Mode** page displays.
7. Press ▲/▼/◀/▶ until your desired character is selected and press **MODE/ENTER**.
8. Press **MENU/EXIT** to go back to the main menu once you are done.
9. Press ▼ to select a sub-menu item to be changed and adjust the value with ◀/▶. See "[Fine-tuning the picture quality](#)" on page 29 and "[Advanced picture quality controls](#)" on page 31 for details.
10. When all settings have been done, press **MENU/EXIT** to save and leave the settings.

Resetting the picture mode

All of the adjustments you've done in the **Picture** menus can be returned to the factory preset values with a key press on the highlight of **Reset**.

To reset the picture mode to the preset factory values:

1. In the **Picture** menu, highlight **Preset Mode** and press ◀/▶ to select the picture mode (including **User 1**, **User 2**, or **User 3**) you want to reset.
2. Press ▼ to highlight **Reset Picture Settings** and press **MODE/ENTER**. The confirmation message displays.
3. Press ◀/▶ to highlight **Reset** and press **MODE/ENTER**. The picture mode will return to the factory preset settings.
4. Repeat steps 1-3 if you want to reset other picture modes.

☞ Do not be confused with the **Reset Picture Settings** function here with the **Reset All Settings** in the **System Setup : Advanced** menu. The **Reset All Settings** function returns most of the settings to the factory preset values system wide. See "[Reset All Settings](#)" on page 46 for details.

Fine-tuning the picture quality

No matter what picture mode you have selected, you are able to fine-tune those settings to fit every presentation purpose. Those adjustments will be saved to the preset mode you are at when you exit the OSD menu.

Adjusting Brightness

Highlight **Brightness** in the **Picture** menu and adjust the values by pressing ◀/▶ on the projector or remote control.



The higher the value, the brighter the picture. And the lower the setting, the darker the picture. Adjust this control so the black areas of the picture appear just as black and that detail in the dark areas is visible.

Adjusting Contrast

Highlight **Contrast** in the **Picture** menu and adjust the values by pressing ◀/▶ on the projector or remote control.



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 Color

Highlight **Color** in the **Picture** menu and adjust the values by pressing ◀/▶ on the projector or remote control.

Lower setting produces less saturated colors; setting to the minimum value makes the image black and white. If the setting is too high, colors on the image will be overpowering, which makes the image unrealistic.

Adjusting Tint

Highlight **Tint** in the **Picture** menu and adjust the values by pressing ◀/▶ on the projector or remote control.

The higher the value, the more reddish the picture becomes. The lower the value, the more greenish the picture becomes.

☞ **The Brightness, Color, Contrast, Tint functions can also be accessible by pressing Brightness, Color, Contrast, Tint on the remote control to display the adjustment bar and then you can press ◀/▶ to adjust the values.**

Adjusting Sharpness

Highlight **Sharpness** in the **Picture** menu and adjust the values by pressing ◀/▶ on the projector or remote control.



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

Selecting a color temperature*

Highlight **Color Temperature** in the **Picture** menu and select a preferred setting by pressing ◀/▶ on the projector or remote control.

There are several color temperature settings available.

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

***About color temperatures:**

There are many different shades that are considered to be "white" for various purposes. One of the common methods of representing white color is known as the "color temperature". A white color with a low color temperature appears to be reddish white. A white color with a high color temperature appears to have more blue in it.

Advanced picture quality controls

There are more advanced functions in the **Picture > Advanced...** and **Display** menus to be adjusted to your preference. To save the settings, just press **MENU/EXIT** to leave the OSD menu.

Setting Black Level

Highlight **Black Level** in the **Picture > Advanced...** menu and press ◀/▶ on the projector or remote control to select **0 IRE** or **7.5 IRE**.

The grayscale video signal is measured in IRE units. In some areas which use NTSC TV standard, the grayscale is measured from 7.5 IRE (black) to 100 IRE (white); however, in other areas where PAL equipment or Japanese NTSC standards are used, the grayscale is measured from 0 IRE (black) to 100 IRE (white). We suggest that you check the input source to see if it is with 0 IRE or 7.5 IRE, then select accordingly.

Controlling image clarity

You may have static or noisy projected pictures.

To achieve better picture clarity:

1. Highlight **Clarity Control** in the **Picture > Advanced...** menu and press **MODE/ENTER** on the projector or remote control to display the **Clarity Control** page.
2. Press ▼ to select **Noise Reduction** and press ◀/▶ to set the desired value.
 - **Noise Reduction:** Reduces electrical image noise caused by different media players. The higher the setting, the less the noise.

Setting a preferred color temperature

To set a preferred color temperature:

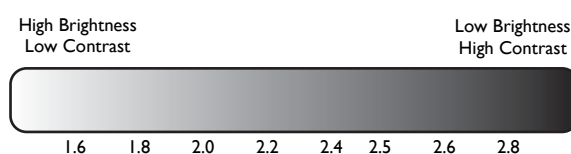
1. Highlight **Color Temperature Fine Tuning** in the **Picture > Advanced...** menu and press **MODE/ENTER**. The **Color Temperature Fine Tuning** page displays.
2. Press ▲/▼ to highlight the item you want to change and adjust the values by pressing ◀/▶.
 - **Red Gain/Green Gain/Blue Gain:** Adjusts the contrast levels of Red, Green, and Blue.
 - **Red Offset/Green Offset/Blue Offset:** Adjusts the brightness levels of Red, Green, and Blue.
3. To save and leave the settings, press **MENU/EXIT**.

Selecting a Gamma setting

Highlight **Gamma Selection** in the **Picture > Advanced...** menu and select a preferred setting by pressing ◀/▶ on the projector or remote control.

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

- Gamma 1.6/1.8/2.0/BenQ
Select these values according to your preference.
- Gamma 2.2
Increases the average brightness of the picture. Best for a lit environment, meeting room or family room.
- Gamma 2.4/2.5
Best for viewing movies in a darkened environment.
- Gamma 2.6/2.8
Best for viewing movies which are mostly composed of dark scenes.



Adjusting Brilliant Color

Highlight **Brilliant Color** in the **Picture > Advanced...** menu and select **On** by pressing ◀/▶ on the projector or remote control.

This feature utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing truer, more vibrant colors in picture. When set to "Off", **Brilliant Color** is disabled.

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.

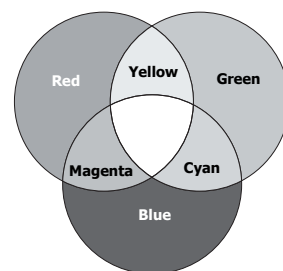
Only in permanent installations with controlled lighting levels such as boardrooms, lecture theaters, or home theaters, should color management be considered. Color management provides fine color control adjustment to allow for more accurate color reproduction, should you require it.

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 to favorite colors. When you select each color, you can independently adjust its color range and saturation according to your preference.

To adjust and store the settings:


1. In the **Picture > Advanced...** menu, highlight **Color Management** and press **MODE/ENTER**. The **Color Management** page displays.
2. Highlight **Primary Color** and press **◀/▶** to select a color from among **Red, Green, Blue, Cyan, Magenta** and **Yellow**.
3. 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 is selected. Increasing its range will include both the red color close to yellow and red color close to magenta.

4. 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.
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 video picture. Lower settings produce less saturated colors; a setting of “0” removes that color from the image entirely. If the saturation is too high, that color will be overpowering and unrealistic.**

6. To leave and save the settings, press **MENU/EXIT**.

Setting Film Mode

Highlight **Film Mode** in the **Display** menu and select **On** by pressing **◀/▶** on the projector or remote control.

This feature helps improve picture quality when projecting composite or S-video image from a film-sourced DVD or Blu-ray Disc.

Setting 3D Comb Filter

Highlight **3D Comb Filter** in the **Display** menu and select **On** by pressing **◀/▶** on the projector or remote control.

This feature separates composite signal to Y (brightness) signal and C (color) signal, and can help produce clearer and sharper images with correct colors in place.

 **This function is only available when a composite or S-video signal is selected.**

Adjusting the sound

The sound adjustments made as below will have an effect on the projector speaker(s). Be sure you have made a correct connection to the projector audio input. See "[Connecting with video equipment](#)" on [page 19](#) for how the audio input is connected.

Muting the sound

To temporarily turn off the sound, press **Mute** on remote control, or

1. Press **MENU/EXIT** and then press ◀/▶ until the **Audio Setup** menu is highlighted.
2. Press ▼ to highlight **Mute** and press ◀/▶ to select **On**.

 If available, you can also press **Mute** on the remote control to toggle projector audio between on and off.

Adjusting the sound level


To adjust the sound level, press **Volume +/-** on remote control or  /  on the projector, or:

1. Repeat step 1 above.
2. Press ▼ to highlight **Volume** and press ◀/▶ to select a desired sound level.

Turning off the Power On/Off Ring Tone

To turn off the ring tone:

1. Repeat step 1 above.
2. Press ▼ to highlight **Power On/Off Ring Tone** and press ◀/▶ to select **Off**.

 The only way to change **Power On/Off Ring Tone** is setting **On** or **Off** here. Setting the sound mute or changing the sound level will not affect the **Power On/Off Ring Tone**.

Selecting the aspect ratio

The "aspect ratio" is the ratio of the image width to the image height. Digital TV is usually in 16:9 ratio, which is the default for this projector, and most analog TV signals and DVDs are in 4:3 ratio.

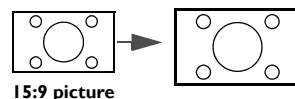
With the advent of digital signal processing, digital display devices like this projector can dynamically stretch and scale the image output to a different aspect than that of the image input source. Images can be stretched in a linear manner so the whole of the image is stretched equally, or non-linearly, which distorts the image.

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

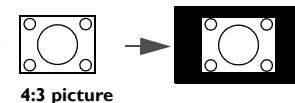
- Using the remote control
 1. Press **Aspect** to show the current setting.
 2. Press **Aspect** repeatedly to select an aspect ratio to suit the format of the video signal and your display requirements.
- Using the OSD menu
 1. Press **MENU/EXIT** and then press **◀/▶** until the **Display** menu is highlighted.
 2. Press **▼** to highlight **Aspect Ratio**.
 3. Press **◀/▶** to select an aspect ratio to suit the format of the video signal and your display requirements.

About the aspect ratio

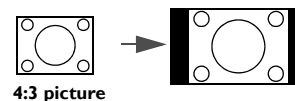
1. **Auto**: Scales an image proportionally to fit the projector's native resolution in its horizontal or vertical width. This is suitable for the incoming image which is neither in 4:3 nor 16:9 and you want to make most use of the screen without altering the image's aspect ratio.



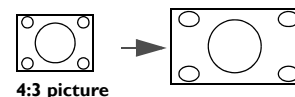
2. **Real**: This setting displays the image in a one-to-one pixel mapping without alteration or resize in the center of the projection. This is most suitable for use with PC source inputs.



3. **4:3**: Scales a picture so that it is displayed in the center of the screen with a 4:3 aspect ratio. This is most suitable for 4:3 pictures like computer monitors, standard definition TV and 4:3 aspect DVD movies, as it displays them without aspect alteration.



4. **Wide**: Stretches the picture horizontally in a non-linear manner, that is, the edges of the picture are stretched more than the center of the picture to prevent distortion of the central part of the picture. This is suitable for occasions where you want to stretch the width of a 4:3 aspect picture to the width of a 16:9 aspect screen. It does not alter the height. Some widescreen movies have been produced with their width squashed down to the width of a 4:3 aspect, and are best viewed when restretched back to their original width using this setting.



5. **Anamorphic**: Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This setting stretches and resizes linearly, except that it treats the vertical and horizontal dimensions independently. It stretches the height of the source image until it reaches the full projected height, and stretches the width of the source image until it reaches the full projected width. This may alter the projected aspect, depending upon the original aspect of the source

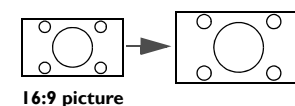
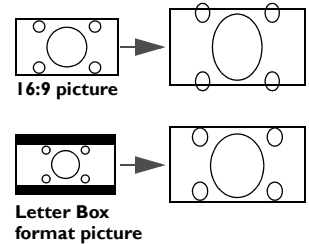


image. Anamorphic is most suitable for images which are already in a 16:9 aspect, like high definition TV, as it displays them without aspect alteration.

6. **Letter Box:** Scales a picture to fit the projector's native resolution in its horizontal width and resize the picture's height to the 3/4 of the projection width. This may produce a picture greater in height than can be displayed, so part of the picture is lost (not displayed) along the top and bottom edges of the projection. This is suitable for the display of movies which are presented in letter box format (with black bars on the top and bottom).



- The black portions are inactive areas and the white portions are active areas.
- OSD menus can be displayed on those unused black areas.

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 **Digital Zoom+/-** to display the Zoom bar. Press **Digital 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 **Digital 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.

Operating in a high altitude environment

We recommend that you activate **High Altitude Mode** when your environment is higher than 1500 meters (around 4920 feet) above sea level, or whenever the projector will be used for extended periods of time (>10 hours) without shutdown.

To activate 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**.
3. Press **◀/▶** to select **On**. A confirmation message displays.
4. 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 shutdown 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.

Watching 3D content

Your BenQ projector supports playing three-dimensional (3D) content transferred through D-Sub, Component, HDMI, Video, and S-Video. Yet you need the required compatible hardware accessories and software to play 3D content on BenQ projector.

Connecting 3D video devices

- PlayStation games
 - i. Make sure you have updated your console to the latest software version in PlayStation 3.
 - ii. Insert the 3D game disc. Or you can download games via the PlayStation network.
 - iii. Launch the game and select **Play in 3D** in the in-game menu.
- Blu-ray 3D player
 - i. Make sure your player supports 3D Blu-ray Disc and that 3D output is activated.
 - ii. Play the 3D Blu-ray Disc.
- 3D TV (e.g. SKY 3D, DirecTV)
 - i. Contact your TV service provider to enable 3D channels on your channel package.
 - ii. Switch to the 3D channel.
- 3D Devices (e.g. 3D DV/DC)

Turn on the 3D device and project the 3D content.

 **To view the 3D video correctly, make sure Auto is selected in the Display > 3D > 3D Mode menu. If 3D content still cannot be shown correctly, select the supported format in the Display > 3D > 3D Mode menu.**

After you have connected the 3D video devices to the projector, make sure the power of BenQ 3D glasses is on. Wear the BenQ 3D glasses, and then enjoy your 3D experience!

Using the 3D menus

1. Press the **MENU/EXIT** and go to the **Display > 3D** menu and press **MODE/ENTER**. Or you can press the **3D Setting** button on the remote control. The **3D** page displays.
2. Highlight **3D Mode** and press **MODE/ENTER**. The **3D Mode** page displays.
3. Press **▲/▼** to highlight the 3D format that you need and press **MODE/ENTER**. The projector automatically detects the format of the video when selecting **Auto**. If not, you need to base on the 3D format of the video to make an appropriate setting in the **3D Mode** menu.
4. Press **MENU/EXIT** to go back to the **3D** page.

5. Press ▲/▼ to highlight **3D Sync Invert** and press ◀/▶ to select **Invert** to switch between the image for the left eye and the right eye for the more natural viewing. You can also toggle this function between **Invert** and **Disable** by pressing **3D Invert** on the remote control.



- **Use corrective glasses or other such methods to correct your eyesight if you suffer from myopia, hyperopia, astigmatism, or have eyesight differences between the left and right eyes before putting on the 3D Glasses to watch the 3D content.**
- **When the projector starts to project the 3D images, the image may seem misplaced, however, this is not a product malfunction.**
- **Take appropriate breaks when watching 3D content.**
- **Stop watching 3D content if you feel fatigue or discomfort.**
- **Keep a distance from the screen of about three times the effective height of the screen when watching 3D content.**
- **Children and people with a history of oversensitivity to light, heart problems, or have any other existing medical condition should be refrained from watching 3D content.**

Personalizing the projector menu display

The On-Screen Display (OSD) menus can be set according to your preferences. The following settings do not affect the projection settings, operation, or performance.

- **Menu Display Time** in the **System Setup : Basic > Menu Settings** menu sets the length of time the OSD will remain active after your last key press. Use ◀/▶ to select a suitable time length.
- **Menu Position** in the **System Setup : Basic > Menu Settings** menu sets the OSD position in five locations. Use ◀/▶ to select a preferred position.
- **Language** in the **System Setup : Basic** menu sets your familiar language for the On-Screen (OSD) Menus. See ["Using the menus" on page 24](#) for details.
- **Background Color** in the **System Setup : Basic** menu sets a preferred logo screen to be displayed during projector start-up.

Locking control keys

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

To lock the keys:

1. Press **MENU/EXIT** and then press ◀/▶ until the **System Setup : Advanced** menu is highlighted.
2. Press ▼ to highlight **Key Lock**, and press ◀/▶ to select **On**. A warning message appears. Select **Yes** and press **MODE/ENTER**. The control keys lock.

To unlock the keys, press and hold ▶ on the projector or remote control for 3 seconds.

Turning the projector off

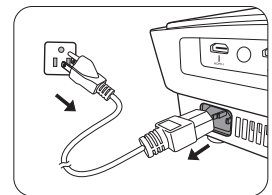
To turn the projector off, press **POWER** ⏻ and a warning message appears. Press **POWER** ⏻ again.

- The Power indicator light flashes orange and the fans run for about two minutes to cool the lamp. The projector will not respond to any commands until the cooling process is complete. Once the cooling process finishes, a **"Power Off Ring Tone"** will be heard.

☞ To turn off the ring tone, see ["Turning off the Power On/Off Ring Tone" on page 34](#) for details.

- Then, the Power indicator light is a steady orange once the cooling process has finished and fans stop.
- If the projector will not be used for an extended period, unplug the power cable from the power outlet.
- To protect the lamp, the projector will not respond to any commands during the cooling process.

☞ **Actual lamp life may vary due to different environmental conditions and usage.**



On-Screen Display (OSD) menus

On-Screen Display (OSD) structure

Please note that the on-screen display (OSD) menus vary according to the signal type selected.

Main menu	Sub-menu	Options	
Picture	Preset Mode	Cinema/Dynamic/Standard/User 1/User 2/User 3/3D	
	User Mode Management		
	Brightness	0-100	
	Contrast	0-100	
	Color	0-100	
	Tint	0-100	
	Sharpness	0-15	
	Color Temperature	Normal/Cool/Lamp Native/Warm	
	Lamp Power	Normal/Economic/SmartEco	
	Advanced...	Black Level	0 IRE/7.5 IRE
		Clarity Control	Noise Reduction
		Color Temperature Fine Tuning	Red Gain/Green Gain/Blue Gain/Red Offset/ Green Offset/Blue Offset
		Gamma Selection	1.6/1.8/2.0/2.2/2.4/2.5/2.6/2.8/BenQ
		Brilliant Color	On/Off
		Color Management	Primary Color/Hue/Gain/Saturation
Reset Picture Settings			
Audio Setup	Mute	On/Off	
	Volume	0-10	
	Power On/Off Ring Tone	On/Off	
Display	Aspect Ratio	Auto/Real/4:3/Wide/Anamorphic/Letter Box	
	Keystone		
	Position		
	Overscan Adjustment	0/1/2/3	
	PC & Component YPbPr Tuning	H.Size	
		Phase	
		Auto	
	Digital Zoom		
	Film Mode	On/Off	
	3D Comb Filter	On/Off	
	3D	3D Mode	Auto/Off/Frame Sequential/Frame Packing/ Top-Bottom/Side-by-Side
		3D Sync Invert	Disable/Invert

System Setup : Basic	Language	English / Français / Deutsch Italiano / Español / Русский 繁體中文 / 简体中文 / 日本語 / 한국어 / Svenska / Nederlands / Türkçe / Čeština / Português / हिन्दी / Polski Magyar / Hrvatski / Română / Norsk / Dansk / Български / Suomi / Indonesian / Ελληνικά / العربية / हिन्दी	
	Background Color	Black/Blue/Purple	
	Splash Screen	BenQ/Black/Blue	
	Projector Position	Front/Front Ceiling/Rear/Rear Ceiling	
	Auto Off	Disable/5 min/10 min/15 min/20 min/25 min/ 30 min	
	Sleep Timer	Disable/30 min/60 min/90 min/120 min/150 min/180 min	
	Menu Settings	Menu Display Time	5 sec/10 sec/15 sec/20 sec/25 sec/30 sec/ Always On
		Menu Position	Center/Top-Left/Top-Right/Bottom-Right/ Bottom-Left
		Blank Reminder Message	On/Off
	Input Source	HDMI 1/HDMI 2/Video/S-Video/Component/ PC	
	Source Rename		
	Auto Source Search	On/Off	
	System Setup : Advanced	Lamp Settings	Reset Lamp Timer
			Equivalent Lamp Hour
HDMI Settings		HDMI Format	Auto/PC Signal/Video Signal
		CEC	On/Off
Baud Rate		2400/4800/9600/14400/19200/38400/57600/ 115200	
Test Pattern		On/Off	
Closed Caption		Closed Caption Enable	On/Off
		Caption Version	CC1/CC2/CC3/CC4
Quick Cooling		On/Off	
High Altitude Mode		On/Off	
Password		Change Password	
		Power On Lock	On/Off (inputs current password)
Key Lock		On/Off	
Reset All Settings			
Information	Source		
	Preset Mode		
	Resolution		
	Color System		
	Equivalent Lamp Hour		
	3D Format		
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.








Picture menu


Function	Description
Preset Mode	Pre-defined picture modes are provided so you can optimize your projector picture set-up to suit your program type. See "Selecting a preset mode" on page 28 for details.
User Mode Management	Selects a preset mode that most suits your need for the picture quality and further fine-tune the picture based on the selections listed below. See "Setting the User 1/User 2/User 3 mode" on page 28 for details.
Brightness	Adjusts the brightness of the picture. See "Adjusting Brightness" on page 29 for details.
Contrast	Adjusts the degree of difference between dark and light in the picture. See "Adjusting Contrast" on page 29 for details.
Color	Adjusts the color saturation level -- the amount of each color in a video picture. See "Adjusting Color" on page 30 for details.
Tint	Adjusts the red and green color tones of the picture. See "Adjusting Tint" on page 30 for details.
Sharpness	Adjusts the picture to make it look sharper or softer. See "Adjusting Sharpness" on page 30 for details.
Color Temperature	There are several color temperature settings available. See "Selecting a color temperature*" on page 30 for details.
Lamp Power	Selects the projector lamp power between Normal , Economic and SmartEco modes. See "Setting Lamp Power as Economic or SmartEco" on page 48 for details.
Advanced...	<p>Black Level Sets the picture grayscale as 0 IRE or 7.5 IRE. See "Setting Black Level" on page 31 for details.</p> <p>Clarity Control See "Controlling image clarity" on page 31 for details.</p> <p>Color Temperature Fine Tuning See "Setting a preferred color temperature" on page 31 for details.</p> <p>Gamma Selection See "Selecting a Gamma setting" on page 32 for details.</p> <p>Brilliant Color See "Adjusting Brilliant Color" on page 32 for details.</p> <p>Color Management See "Color Management" on page 32 for details.</p>
Reset Picture Settings	Returns all settings in the Picture menus to the factory preset values. See "Resetting the picture mode" on page 29 for details.

Audio Setup menu

Function	Description
Mute	See "Muting the sound" on page 34 for details.
Volume	See "Adjusting the sound level" on page 34 for details.
Power On/Off Ring Tone	See "Turning off the Power On/Off Ring Tone" on page 34 for details.

Display menu


Function	Description
Aspect Ratio	There are several options to set the picture's aspect ratio depending on your input source. See "Selecting the aspect ratio" on page 35 for details.
Keystone	Corrects any keystone of the picture. See "Correcting picture distortion" on page 27 for details.
Position	Displays the position adjustment page. To move the projected picture, 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 the PC signal is selected.
Overscan Adjustment	Conceals the poor picture quality in the four edges. You can also manually press   to decide how much to be concealed. Setting 0 means the picture is 100% displayed. The greater the value, the more portion of the picture is concealed while the screen remains filled and geometrically accurate.
PC & Component YPbPr Tuning	<p>H.Size Adjusts the horizontal width of the picture.  This function is only available when the Component or PC signal is selected.</p> <p>Phase Adjusts the clock phase to reduce picture distortion.  This function is only available when the Component or PC signal is selected.</p> <p>Auto Adjusts the phase, and frequency automatically.  This function is only available when the PC signal is selected.</p> 
Digital Zoom	See "Magnifying and searching for details" on page 36 for details.
Film Mode	See "Setting Film Mode" on page 33 for details.
3D Comb Filter	See "Setting 3D Comb Filter" on page 33 for details.


3D	<p>3D Mode This projector features a 3D function which enables you to enjoy the 3D movies, videos, and sporting events in a more realistic way by presenting the depth of the images. You need to wear a pair of 3D glasses to view the 3D images.</p> <p> When the 3D Mode function is enabled:</p> <ul style="list-style-type: none"> • The brightness level of the projected image will decrease. • The Preset Mode cannot be adjusted. • The Keystone can only be adjusted within limited degrees. <p>3D Sync Invert When you 3D image is distorted, you can enable this function to switch between the image for the left eye and the right eye for the more comfortable 3D viewing experience.</p> <p>See "Watching 3D content" on page 37 for details.</p>
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System Setup : Basic menu

Function	Description
Language	Sets the language for the On-Screen Display (OSD) menus. See " Using the menus " on page 24 for details.
Background Color	Sets the background color for the projector. See " Personalizing the projector menu display " on page 39 for details.
Splash Screen	Allows you to select which logo screen will display during projector start-up. You can choose BenQ logo screen, Blue screen or Black screen.
Projector Position	The projector can be installed on a ceiling or behind a screen, or with one or more mirrors. See " Choosing a location " on page 13 for details.
Auto Off	Prevents unnecessary projection when no signal is detected for a long time. See " Setting Auto Off " on page 48 for details.
Sleep Timer	Sets the auto-shutdown timer. The timer can be set to a value between 30 minutes and 3 hours.
Menu Settings	<p>Menu Display Time Sets the length of time the OSD will remain active after your last key press.</p> <p>Menu Position Sets the On-Screen Display (OSD) menu position.</p> <p>Blank Reminder Message Sets whether the blank reminder message is displayed by the projector while the image is hidden.</p>
Input Source	Selects an input source to be projected. See " Selecting an input source " on page 23 for details.
Source Rename	Renames the source to your desired name. See " Selecting an input source " on page 23 for details.
Auto Source Search	Sets whether the projector searches automatically for input sources. If the source scan is On , the projector will scan for input sources until it acquires a signal. If the function is not activated, the projector selects the last used input source.


System Setup : Advanced menu


Function	Description
Lamp Settings	<p>Reset Lamp Timer Once the lamp is renewed, select Reset to return the lamp timer to "0". See "Resetting the lamp timer" on page 51 for details.</p> <p>Equivalent Lamp Hour Shows the lamp hour information. See "Getting to know the lamp hour" on page 48 for details.</p>
HDMI Settings	<p>HDMI Format Selects an input source type for the HDMI signal. You can also manually select the source type. The different source types carry different standards for the brightness level.</p> <p> HDMI Format is only available when the HDMI signal is selected.</p> <p>CEC Enables or disables the CEC function. When you connect an HDMI CEC-compatible device to your projector with an HDMI cable, turning on the HDMI CEC compatible device automatically turns on the projector, while turning off the projector automatically turns off the HDMI CEC compatible device.</p>
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	Press ENTER to display the grid test pattern. It helps you adjust the image size and focus and check that the projected image is free of distortion.
Closed Caption	<p>Closed Caption Enable Activates the function by selecting On when the selected input signal carries closed captions*.</p> <p>*About captions: An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as "CC" in TV listings).</p> <p>Caption Version Selects a preferred closed captioning mode. To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).</p>
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 5 seconds.
High Altitude Mode	A mode for operation in areas like high altitude or high temperature. See "Operating in a high altitude environment" on page 37 for details.
Password	<p>Change Password You will be asked to enter the current password before changing to a new one. See "Utilizing the password function" on page 25 for details.</p> <p>Power On Lock Limits use of the projector to only those who know the correct password. See "Utilizing the password function" on page 25 for details.</p>
Key Lock	See "Locking control keys" on page 39 for details.

Reset All Settings	Returns all settings to the factory preset values.  The following settings will still remain: Keystone, Language, Projector Position, High Altitude Mode, Password, and Key Lock.
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Information menu

This menu shows you the current operating status of the projector.

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

Function	Description
Source	Shows the current signal source.
Preset Mode	Shows the selected mode in the Picture > Preset Mode menu.
Resolution	Shows the native resolution of the input source.
Color System	Shows input system format: NTSC, PAL, SECAM, YUV, or RGB.
Equivalent Lamp Hour	Shows the total lamp time used.
3D Format	Shows the current 3D mode.  3D Format is only available when 3D Mode is enabled.
Firmware Version	Shows the firmware version of your projector.

Additional information

Care of the projector

Your projector needs little maintenance. The only thing you have to do on a regular basis is keep the lens clean. Never remove any parts of the projector except the lamp. Contact your dealer or local customer service center if the projector fails to operate as expected.

Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface. Before you attempt to clean the lens, turn the projector off, unplug the power cable, and leave it several minutes to cool completely.

1. Use a canister of compressed air to remove dust. (Available from building hardware or photographic suppliers.)
2. If there is stubborn dirt or smudge marks, use a proper photographic lens brush or moisten a clean soft lens cloth with lens cleaner to gently wipe the lens surface.
3. Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the projector surface and cabinet material.

 **Never touch the lens with your finger or rub the lens with abrasive materials. Even paper towels can damage the lens coating. Only ever use a proper photographic lens brush, cloth, and cleaning solution. Do not attempt to clean the lens while the projector is switched on or is still hot from previous use.**

Cleaning the projector case

Before you attempt to clean the case, turn the projector off, unplug the power cable, and leave it several minutes to cool completely.

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

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

Storing the projector

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

1. Make sure the temperature and humidity of the storage area are within the recommended range for the projector. Please refer to the Spec. page in this manual or consult your dealer about the range.
2. Retract the adjuster feet.
3. Remove the batteries from the remote control.
4. Pack the projector in its original packing or equivalent.

Transporting the projector

It is recommended that you ship the projector with its original packing or equivalent.

Lamp information

Getting to know the lamp hour

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

☞ See "**Setting Lamp Power as Economic or SmartEco**" below for more information on **Economic mode**.

To obtain the lamp hour information:

1. Press **MENU/EXIT** and then press ◀/▶ until the **System Setup : Advanced** menu is highlighted.
2. Press ▼ to highlight **Lamp Settings** and press **MODE/ENTER**. The **Lamp Settings** page displays.
3. The lamp hour information is shown in the row of **Equivalent Lamp Hour**.
4. To leave the menu, press **MENU/EXIT**.

Extending lamp life

The projection lamp is a consumable item. To keep the lamp life as long as possible, you can do the following settings via the OSD menu.

- **Setting Lamp Power as Economic or SmartEco**

Using **Economic** mode reduces system noise and power consumption by 30%. Using **SmartEco** mode reduces system noise and lamp power consumption by up to 70%. If the **Economic** or **SmartEco** mode is selected, the light output will be reduced and result in darker projected pictures

Setting the projector in **Economic** or **SmartEco** mode also extends the lamp life. To set **Economic** or **SmartEco** mode, go to the **Picture > Lamp Power** menu, and press **MODE/ENTER**. The **Lamp Power** page displays. Then press ▲/▼ repeatedly until your desired mode is selected and press **MODE/ENTER**.

Lamp mode	Description
Normal	100% lamp brightness
Economic	Saves 30% lamp power consumption
SmartEco	Saves up to 70% lamp power consumption depending on the content brightness level

- **Setting Auto Off**

This function allows the projector to turn off automatically if no input source is detected after a set period of time.

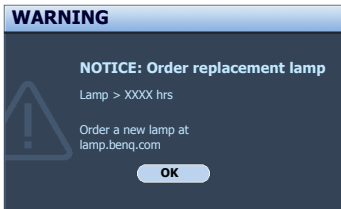
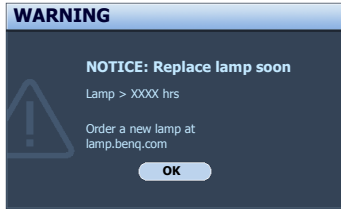
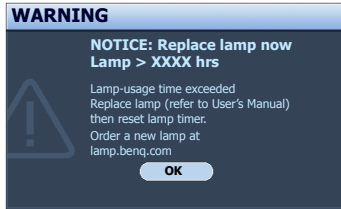
To set **Auto Off**, go to the **System Setup : Basic > Auto Off** menu and press ◀/▶ to select a time period. The time period can be set from 5 to 30 minutes in 5-minute increments. If the preset time lengths are not suitable for your presentation, select **Disable**. The projector will not automatically 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://lamp.BenQ.com> for a replacement lamp.

The Lamp indicator light and Temperature warning light will light up if the lamp becomes too hot. Turn the power off and let the projector cool for 45 minutes. If the Lamp or Temp indicator still lights up after turning the power back on, please contact your dealer. See "[Indicators](#)" on [page 52](#) for details.

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

Status	Message
<p>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 48), you may continue to operate the projector until the next hour lamp warning appears.</p> <p>Press MODE/ENTER to dismiss the message.</p>	
<p>It is strongly recommended that you replace the lamp at this stage. 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.</p> <p>Press MODE/ENTER to dismiss the message.</p>	
<p>The lamp MUST be replaced before the projector will operate normally.</p> <p>Press MODE/ENTER to dismiss the message.</p>	

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

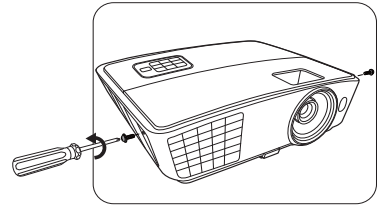
Replacing the lamp



- To reduce the risk of electrical shock, always turn the projector off and disconnect the power cable 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.

1. Turn the power off and disconnect the projector from the power outlet. If the lamp is hot, avoid burns by waiting for approximately 45 minutes until the lamp has cooled.

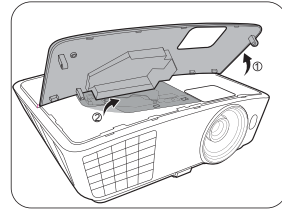
-
2. Loosen the screws that secure the lamp cover on both sides of the projector until the lamp cover loosens.



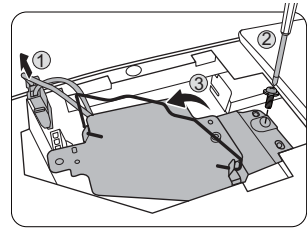
-
3. Remove the lamp cover from the projector.



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



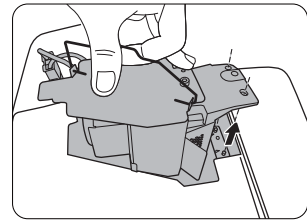
-
4. Disconnect the lamp connector from the projector.
5. Loosen the screw that secures the lamp.
6. Lift the handle so that it stands up.



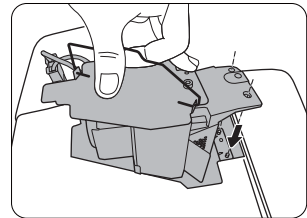
-
7. Use the handle to slowly pull the lamp out of the projector.



- **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.**



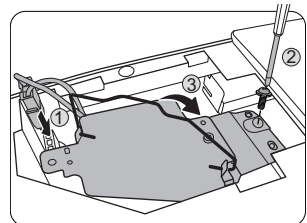
-
8. As shown in the figure, lower the new lamp.



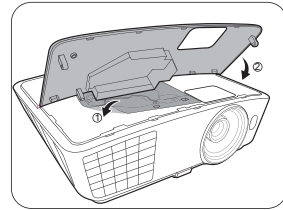
-
9. Reconnect the lamp connector to the projector.
10. Tighten the screw that secures the lamp.
11. Ensure the handle is fully laid flat and locked in place.



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



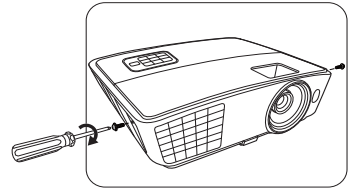
12. Replace the lamp cover on the projector.



13. Tighten the screws that secure the lamp cover on both sides of the projector.



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



14. Connect the power and restart the projector.

Resetting the lamp timer



Do not reset the lamp timer if the lamp has not been replaced as this could cause damage.

15. After the start-up logo, press **MENU/EXIT** and then press **◀/▶** until the **System Setup : Advanced** menu is highlighted.
16. Press **▼** to highlight **Lamp Settings** and press **MODE/ENTER**. The **Lamp Settings** page displays.
17. Highlight **Reset Lamp Timer** and press **MODE/ENTER**. A warning message displays asking if you want to reset the lamp timer. Highlight **Reset** and press **MODE/ENTER**. The lamp time will be reset to "0".

Indicators

There are three indicators which show the status of the projector. Check the following for information about the indicator lights. If there is anything wrong, turn the projector off and contact your dealer.

■ When the projector is in a normal state

Power	Temp	Lamp	Status & Description
Orange	Off	Off	Stand-by mode.
Green Flashing	Off	Off	Powering up.
Green	Off	Off	Normal operation.
Orange Flashing	Off	Off	<ul style="list-style-type: none"> The projector needs 90 seconds to cool down as it was abnormally shut down without the normal cooling down process. The projector needs to cool for 90 seconds after the power is turned off.

■ When the projector is in an abnormal state

Power	Temp	Lamp	Status & Description
Off	Off	Red	<ul style="list-style-type: none"> The lamp has been damaged. Please contact your local BenQ customer center for purchasing a new lamp.
Off	Off	Red Flashing	<ul style="list-style-type: none"> The lamp is not properly attached. The lamp has been damaged. Please contact your local BenQ customer center for purchasing a new lamp.
Red	Red	Off	The fans are not working.
Red	Red Flashing	Off	
Red	Green	Off	
Red	Green Flashing	Off	
Red Flashing	Red	Off	Fan sensors error. Fans do not rotate during powering up.
Red Flashing	Red Flashing	Off	
Red Flashing	Green	Off	
Red Flashing	Green Flashing	Off	
Red	Red	Green	Thermal condition error.
Green	Red Flashing	Off	
Green	Green	Off	
Green	Green Flashing	Off	
Green Flashing	Red Flashing	Off	
Green Flashing	Green	Off	
Green Flashing	Green Flashing	Off	The projector has shut down automatically. If you try to re-start the projector, it will shut down again. Please contact your dealer for assistance.
Green	Red Flashing	Off	
Green	Green	Off	
Green	Green Flashing	Off	
Green Flashing	Red Flashing	Off	
Green Flashing	Green	Off	

Green	Red	Off	<p>The internal temperature is too high.</p> <ul style="list-style-type: none"> • The intake ventilation or the exhaust ventilation is blocked. • The projector may be in a poorly ventilated location. • The ambient temperature may be too high.
Green Flashing	Red	Off	

Troubleshooting

Problem	Cause	Remedy
The projector does not turn on.	There is no power from the power cable.	Plug the power cable into the AC inlet on the rear of the projector, and plug the power cable into to the power outlet. If the power outlet has a switch, make sure that it is switched on. (See page 22.)
	Attempting to turn the projector on again during the cooling process.	Wait until the cooling down process has completed.
	The lamp cover is not securely attached.	Correctly attach the lamp cover. (See page 49.)
No picture.	The video source is not turned on or connected correctly.	Turn the video source on and check that the signal cable is connected correctly. (See page 19.)
	The projector is not correctly connected to the input source device.	Check the connection. (See page 19.)
	The input source has not been correctly selected.	Select the correct input source with the Source keys on the remote control or SOURCE on the projector. (See page 23.)
Image is unstable.	The connection cables are not securely connected to the projector or the signal source.	Correctly connect the cables to the appropriate terminals. (See page 19.)
Picture is blurred.	The projection lens is not correctly focused.	Adjust the focus of the lens using the focus ring. (See page 23.)
	The projector and the screen are not aligned properly.	Adjust the projection angle and direction as well as the height of this projector if necessary. (See page 27.)
Remote control does not work correctly.	The batteries are out of power.	Replace both of the batteries with new ones. (See page 7.)
	There is an obstacle between the remote control and the projector.	Remove the obstacle. (See page 7.)
	You are too far away from the projector.	Stand within 8 meters (26.2 feet) of the projector. (See page 7.)
3D content does not display correctly	The 3D glasses are out of battery.	Recharge the 3D glasses.
	The settings in the 3D menu are not set correctly.	Correctly set the settings in the 3D menu. (See page 37.)
	Your Blu-ray Disc is not in 3D format.	Use a 3D Blu-ray Disc and try again.
	The input source has not been correctly selected.	Select the correct source with the Source keys on the remote control or SOURCE on the projector. (See page 23.)

Specifications

 All specifications are subject to change without notice.

Optical

Resolution

1280 (H) x 720 (V)

Display system

Single-chip DLP™ system

Lens F/Number

W750

F = 2.54 to 2.73, f = 18.18 to 21.84 mm

W770ST

F = 2.6 to 2.78, f = 10.2 to 12.24 mm

Lamp

210 W lamp

Electrical

Power supply

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

Power consumption

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

Mechanical

Weight

W750

2.6 Kg (5.73 lbs)

W770ST

2.7 Kg (5.95 lbs)

Output terminals

Speaker

(Stereo) 10 watt x 1

Audio signal output

PC audio jack x 1

Control

RS-232 serial control

9 pin x 1

IR receiver x 2

Mini B type USB x 1 (Used for service)

Input terminals

Computer input

RGB input

D-Sub 15-pin (female) x 1

Video signal input

S-VIDEO

Mini DIN 4-pin port x 1

VIDEO

RCA jack x 1

SD/HDTV signal input

Analog - Component RCA jack x 3
(through RGB input)

Digital - HDMI x 2

Audio signal input

Audio in

RCA audio jack (L/R) x 2

Environmental Requirements

Operating temperature

0°C–40°C at sea level

Operating relative humidity

10%–90% (without condensation)

Operating altitude

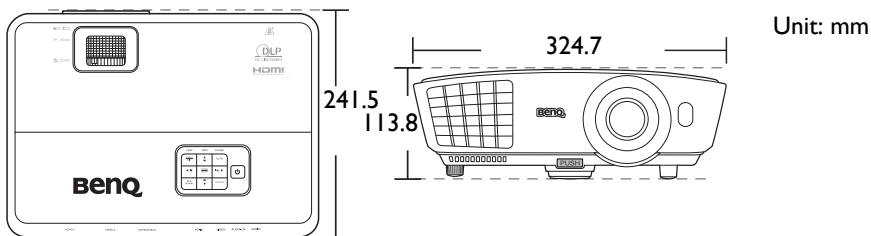
0–1499 m at 0°C–35°C

1500–3000 m at 23°C–30°C (with

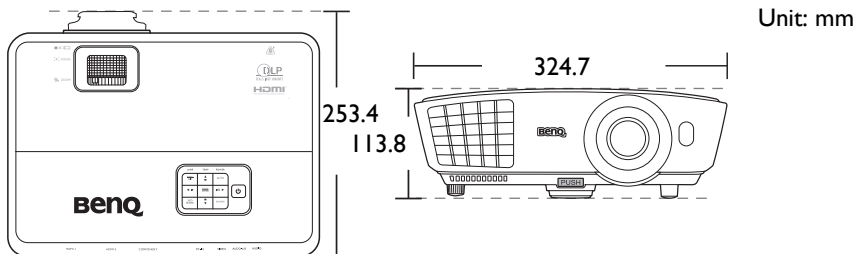
High Altitude Mode on)

■ Dimensions

W750: 324.7 mm x 241.5 mm x 113.8 mm (W x D x H)

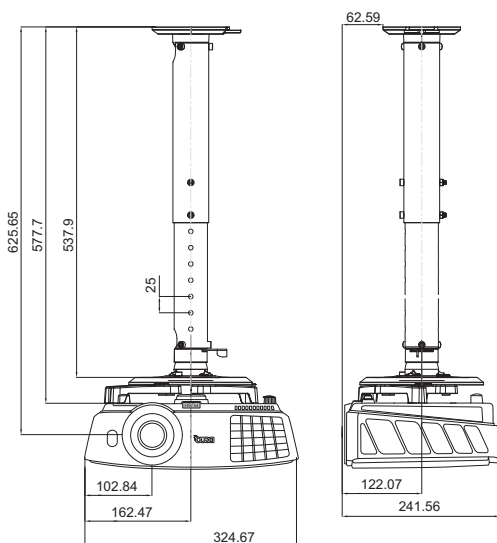
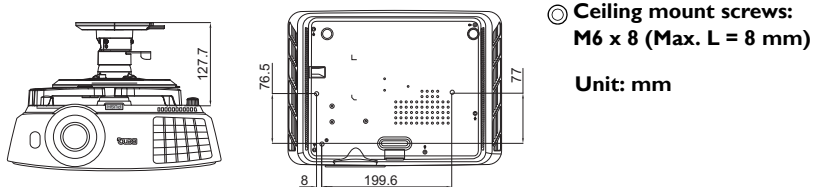


W770ST: 324.7 mm x 253.4 mm x 113.8 mm (W x D x H)

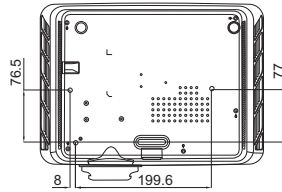
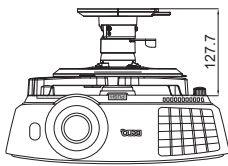


■ Ceiling mount installation

W750

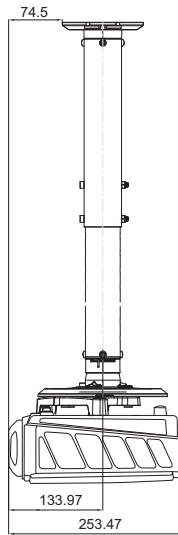
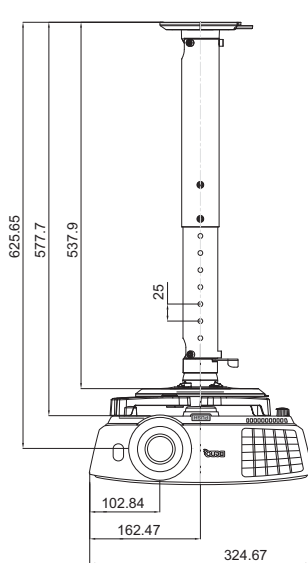


W770ST



☉ Ceiling mount screws:
M6 x 8 (Max. L = 8 mm)

Unit: mm



■ Timing chart

Supported timing for PC input

Format	Resolution	Refresh rate (Hz)	H. Frequency (KHz)	Pixel Frequency (MHz)	
720 x 400	720 x 400_70	70.087	31.469	28.3221	
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	
	SVGA_60*	60.317	37.879	40.000	
	SVGA_72	72.188	48.077	50.000	
	SVGA_75	75.000	46.875	49.500	
	SVGA_85	85.061	53.674	56.250	
1024 x 768	SVGA_120** (Reduce Blanking)	119.854	77.425	83.000	
	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	
1152 x 864	XGA_120** (Reduce Blanking)	119.989	97.551	115.500	
	1152 x 864_75	75.00	67.500	108.000	
	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 720_120**		120	90.000	148.500	
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	65.290	146.250
640 x 480@67Hz	MAC13	66.667	35.000	30.240
832 x 624@75Hz	MAC16	74.546	49.722	57.280
1024 x 768@75Hz	MAC19	74.93	60.241	80.000
1152 x 870@75Hz	MAC21	75.06	68.68	100.00

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

Supported timing for HDMI (HDCP) input

Format	Resolution	Refresh rate (Hz)	H. 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
800 x 600	SVGA_60*	60.317	37.879	40.000
	SVGA_72	72.188	48.077	50.000
	SVGA_75	75.000	46.875	49.500
	SVGA_85	85.061	53.674	56.250
	SVGA_120** (Reduce Blanking)	119.854	77.425	83.000
1024 x 768	XGA_60*	60.004	48.363	65.000
	XGA_70	70.069	56.476	75.000
	XGA_75	75.029	60.023	78.750
	XGA_85	84.997	68.667	94.500
	XGA_120** (Reduce Blanking)	119.989	97.551	115.500
1152 x 864	1152 x 864_75	75.00	67.500	108.000
1024 x 576	BenQ Notebook Timing	60.00	35.820	46.996
1024 x 600	BenQ Notebook Timing	64.995	41.467	51.419
1280 x 720	1280 x 720_60*	60	45.000	74.250
	1280 x 720_120**	120	90.000	148.500
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 105_60***	59.954	65.290	146.250
640x480@67Hz	MAC13	66.667	35.000	30.240
832x624@75Hz	MAC16	74.546	49.722	57.280
1024x768@75Hz	MAC19	75.020	60.241	80.000
1152x870@75Hz	MAC21	75.06	68.68	100.00

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

Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)
480i**	720 (1440) x 480	59.94	15.73	27
480p	720 x 480	59.94	31.47	27
576i	720 (1440) x 576	50	15.63	27
576p	720 x 576	50	31.25	27
720/50p*	1280 x 720	50	37.5	74.25
720/60p*	1280 x 720	60	45.00	74.25
1080/24P*	1920 x 1080	24	27	74.25
1080/25P	1920 x 1080	25	28.13	74.25
1080/30P	1920 x 1080	30	33.75	74.25
1080/50j***	1920 x 1080	50	28.13	74.25
1080/60j***	1920 x 1080	60	33.75	74.25
1080/50P	1920 x 1080	50	56.25	148.5
1080/60P	1920 x 1080	60	67.5	148.5

- ☞ ***Supported timing for 3D signal with Frame Packing and Top-Bottom format.**
****Supported timing for 3D signal with Frame Sequential format.**
*****Supported timing for 3D signal with Side-by-Side format.**

Supported timing for EDTV and HDTV (via Component inputs)

Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)
480i*	720 x 480	59.94	15.73	13.5
480p	720 x 480	59.94	31.47	27
576i	720 x 576	50	15.63	13.5
576p	720 x 576	50	31.25	27
720/50p	1280 x 720	50	37.5	74.25
720/60p	1280 x 720	60	45.00	74.25
1080/50i	1920 x 1080	50	28.13	74.25
1080/60i	1920 x 1080	60	33.75	74.25
1080/24P	1920 x 1080	24	27	74.25
1080/25P	1920 x 1080	25	28.13	74.25
1080/30P	1920 x 1080	30	33.75	74.25
1080/50P	1920 x 1080	50	56.25	148.5
1080/60P	1920 x 1080	60	67.5	148.5

 *Supported timing for 3D signal with Frame Sequential format.

Supported timing for Video and S-Video inputs

Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)
NTSC*	-	60	15.73	3.58
PAL	-	50	15.63	4.43
SECAM	-	50	15.63	4.25/4.41
PAL-M	-	60	15.73	3.58
PAL-N	-	50	15.63	3.58
PAL-60	-	60	15.73	4.43
NTSC4.43	-	60	15.73	4.43

 *Supported timing for 3D signal with Frame Sequential format.

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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 3000 meters, and avoiding to operate the projector in a dusty environment. This warranty gives you specific legal rights, and you may have other rights which vary from country to country.

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