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BenQ W6000/W6500 Digital Projector Home Cinema Series User Manual



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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.

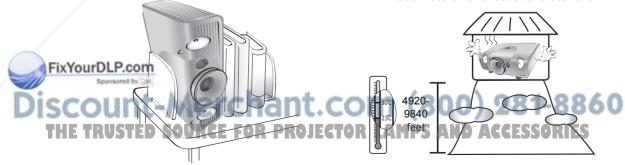


3. Do not store the projector on end vertically. Doing so may cause the projector to fall over, causing injury or resulting in damage.

- 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.



 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.



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



 Do not place liquids near or on the projector. Liquids spilled into the projector will void your warranty. If the projector does become wet,
 IXYOU disconnect it from the power point and call BenQ to have the projector repaired. 9. Do not look straight into the projector lens during operation. It may harm your sight.



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.



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.



 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 45.

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. ROJECTOR LAMPS AND ACCESSORIES

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.



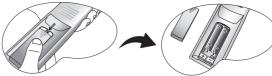
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Remote control batteries

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 down in the direction of the arrow as illustrated. The cover will slide off.



- 2. Remove any existing batteries (if necessary) and install two new 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 case and sliding it back up into position. Stop when it clicks into place.

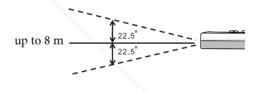
Notes on handling batteries

- Do not mix old batteries with new ones, or mix different types of batteries.
- Avoid leaving the remote control and batteries in an excessive hot or humid environment like the kitchen, bathroom, sauna, sunroom, or in a closed car.
- Dispose of used batteries according to the battery manufacturer's instructions and local environment regulations for your region.
- If the remote control will not be used for an extended period of time, remove the batteries to avoid damage to the control from possible battery leakage.

Remote control operation

- Make sure that there is nothing positioned between the remote control and the infrared (IR) sensors on the projector that might obstruct the IR beam from the remote control reaching the projector.
- The effective range of the remote control is up to 8 meters, and at an angle within 45 degrees of the IR beam. Always aim straight at the projector, however most screens will also reflect the IR beam to the projector.

\triangle 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

Full HD compatible

The projector is compatible with Standard Definition TV (SDTV) 480i, 480p, 576i, 576p, and High Definition TV (HDTV) 720p, 1080i and 1080p formats, with the 1080p format providing a true 1:1 image reproduction.

• High picture quality

The projector provides excellent picture quality due to its high resolution, excellent home theater brightness, super 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.

• Super-high contrast ratio

The projector features a dynamic black control to achieve a super-high contrast ratio.

• 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.

• Extra-low noise operation

The projector's unique cooling system design prevents unnecessary fan noise, and is rated at less than 32 dB in normal mode and a low 29 dB in Economic mode.

• Intuitive lens shift

The intuitive control over lens shift lever provides flexibility in setting-up your projector.

• 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.

• ISF certified calibration control

To reach a higher standard of performance, the projector incorporates ISF NIGHT and ISF DAY mode settings in its OSD menus, which requires professional calibration service from authorized ISF installers.

Panamorph lenses compatible

The projector is compatible with Panamorph lenses that allow you to convert 16:9 projectors to 2.35:1 aspect ratio.

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Projector exterior view

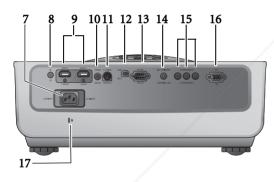
Front and upper side view



Rear view

Under view

See "Connecting with video equipment" on page 17 for connection details.



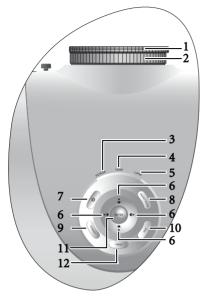
1. Control panel (See "Control panel" on page 10 for details.)

- 2. Lamp cover
- 3. Front IR sensor
- 4. Vent (heated air exhaust)
- 5. Projection lens
- 6. Lens shift lever
- 7. AC Power cable inlet
- 8. Rear IR sensor
- 9. HDMI ports
- 10. Composite Video input (RCA)
- 11. S-Video input (mini 4-pin DIN)
- 12. USB port
- 13. RS-232 control port Used to interface with a PC or home theater control/automation system.
- 14. 12VDC output terminal Used to trigger external devices such as an electric screen or light control, etc. Consult your dealer for how to connect these devices.
- 15. Component Video inputs (RCA) support Y/PB/PR or Y/CB/CR video signal
- 16. RGB (PC)/Component video (YPbPr/YCbCr) signal input jack
- 17. Kensington lock slot
- 18. Adjustable feet



Controls and functions

Control panel



1. Focus ring

Adjusts the focus of the projected image.

"Fine-tuning the image size and clarity" on page 21

2. Zoom ring

Adjusts the size of the projected image.

"Fine-tuning the image size and clarity" on page 21

3. POWER indicator light

Lights up or flashes when the projector is operating.

Indicators" on page 48

4. TEMPerature warning light

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

"Indicators" on page 48

Fix 5. LAMP indicator light

Lights up or flashes when the projector lamp

For details, see the info provided behind the hand sign $\boxed{3}$.

6. Arrow/Keystone keys (Left </ □, Up ▲/□, Right ►/□, Down ▼/□)
 Moves the current On-Screen Display (OSD) menu selection in the direction of the arrow being pressed when the OSD menu is activated.

Manually corrects distorted pictures resulting from an angled projection.

"Using the menus" on page 22, "Correcting picture distortion" on page 25

7. () POWER

Performs the same action as **POWER ON/OFF** on the remote control.

Toggles the projector between standby and on.

"Turning the projector on" on page 20, "Turning the projector off" on page 36

8. PRESET MODE

Sequentially selects a predefined picture setting available for each input.

"Selecting a preset mode" on page 26

9. SOURCE

Performs the same action as the source selection keys (**COMP**, **VIDEO**, **S-VIDEO**, **HDMI1**, **HDMI2**, **PC**) on the remote control.

Switches sequentially through input sources.

"Selecting an input source" on page 21

10. EXIT

Goes back to previous OSD menus, exits and saves any changes made using the On-Screen Display (OSD) menu.

Using the menus" on page 22

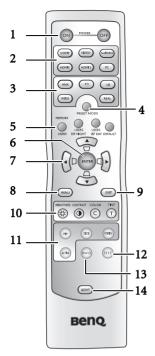
11. ENTER

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

has developed a problem. Indicators" on page 48 Toggles the On-Screen Display (OSD) menu on THE TRUSTED SOURCE FOR PROJECTOR of MPS AND ACCESSORIES

Using the menus" on page 22

Remote control



1. POWER ON/OFF

Toggles the projector between standby and on.

- "Turning the projector on" on page 20, "Turning the projector off" on page 36
- Source selection keys (COMP, VIDEO, S-VIDEO, HDMI1, HDMI2, PC) Selects an input source for display.

"Selecting an input source" on page 21

3. Aspect keys (ANA, 4:3, LB, WIDE, REAL) Selects the display aspect ratio.

"Selecting the aspect ratio" on page 32

4. PRESET MODE

Sequentially selects a predefined picture setting available for each input.

"Selecting a preset mode" on page 26

5. MEMORY keys (USER 1, USER 2/ISF NIGHT, USER 3/ISF DAY, and DEFAULT) Restores picture settings for the current input

source.
"Setting the User 1/User 2/User 3 mode" on EC
page 27

6. ENTER

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

For details, see the info provided behind the hand sign $\boxed{3}$.

7. Arrow/Keystone keys (Left

 Right
 /□, Down
 /□)

Moves the current On-Screen Display (OSD) menu selection in the direction of the arrow being pressed when the OSD menu is activated.

Manually corrects distorted pictures resulting from an angled projection.

"Using the menus" on page 22, "Correcting picture distortion" on page 25

8. MENU

Toggles the On-Screen Display (OSD) menu on and off.

Using the menus" on page 22

9. EXIT

Goes back to previous OSD menus, exits and saves any changes made using the On-Screen Display (OSD) menu.

"Using the menus" on page 22

10. Picture quality adjustment keys (BRIGHTNESS, CONTRAST, COLOR, TINT)

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

Fine-tuning the picture quality" on page 28

11. Picture window control keys (PIP, SIZE, POSITION, ACTIVE)

Displays the Picture In Picture (PIP) windows, toggles between the main window and subwindow with ACTIVE, and adjusts the size and position of the currently active window with SIZE and POSITION.

"Displaying more than one image source simultaneously" on page 35

12. TEST

Displays the test pattern.

Test Pattern" on page 41

13. INFO

Displays the **Information** menu.

EC14 LIGHT MPS AND ACCESSORIES

Turns on the remote control backlight for about 10 seconds. Pressing any other key while the backlight is on keeps the backlight on for a further 10 seconds. Press the key again to turn the backlight off.

Positioning your projector

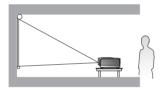
Choosing a location

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. Floor 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.



3. Floor Rear:

4. Ceiling Rear:

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

Note that a special rear projection screen is required.

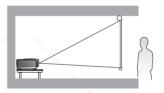
*Set Floor Rear after you turn the projector on.

Select this location with the projector suspended

Note that a special rear projection screen and the

*Set Ceiling Rear after you turn the projector on.

BenQ Projector Ceiling Mount Kit are required for



from the ceiling behind the screen.

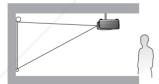
this installation location.

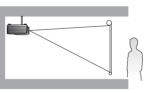
2. Ceiling Front:

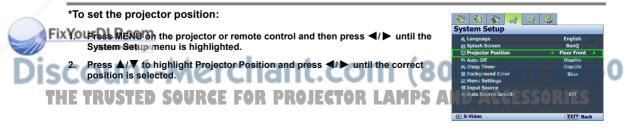
Select this location with the projector suspended from the ceiling in front of the screen.

Purchase the BenQ Projector Ceiling Mount Kit from your dealer to mount your projector on the ceiling.

*Set Ceiling Front after you turn the projector on.







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.

This projector is equipped with a movable lens. See "Shifting the projection lens" on page 16 for details. You can see the diagrams on pages 14 and 15 for the vertical offset values in the dimension tables that are measured when the lens is shifted fully up or down.

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.

For example, 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 668 cm.

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.

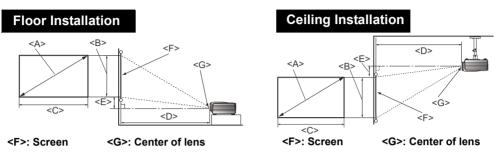
- 1. Determine the aspect ratio of your screen, 16:9 or 4:3?
- 2. Measure the distance between the projector and where you want to position the screen. This is the projection distance.
- 3. Refer to the table and find the closest match to your measurement in the average distance from screen column labelled "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.
- For example, if you have a 16:9-aspect-ratio screen and your measured projection distance was 4.5 m (450 cm), 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 455 cm. Looking across this row shows that a 100-inch screen is required.
- Checking the min and max projection distance values in the columns of "Projection distance **CD**> [cm]" on page 14 indicates that the 4.5 m measured projection distance will also fit the 90 and 110-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.

English

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 25 for details.

Projection dimensions

Installation for a 16:9 ratio screen



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

	Screen dimensions Project			Projectio	n distance	e <d> [cm]</d>	Lowest/
Diago <a> [inch	onal (cm)]	Height [cm]	Width <c> [cm]</c>	Min distance (with max zoom)	Average	Max distance (with min zoom)	Highest lens position <e> [cm]</e>
30	(76)	37	66	109	136	164	4.7
40	(102)	50	89	145	182	218	6
50	(127)	62	111	182	227	273	8
60	(152)	75	133	218	273	327	9
70	(178)	87	155	255	318	382	11
80	(203)	100	177	291	364	436	12
90	(229)	112	199	327	409	491	14
100	(254)	125	221	364	455	545	16
110	(279)	137	243	400	500	600	17
120	(305)	149	266	436	545	655	19
130	(330)	162	288	473	591	709	20
140	(356)	174	310	509	636	764	22
150	(381)	187	332	545	682	818	23
160	(406)	199	354	582	727	873	25
170	(432)	212	376	618	773	927	26
180	(457)	224	398	655	818	982	28
190	(483)	237	421	691	864	1036	30
200	(508)	249	443	727	909	1091	31
Y0250D)L(6350)r	n 311	553	909	1136	1364	39
300 ⁵	(762)	374	664	1091	1364	1636	47

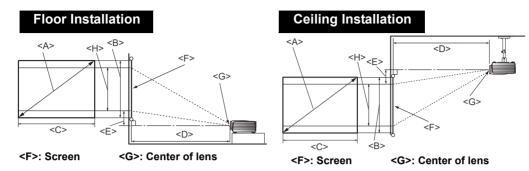
The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your the dealer for assistance DURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Fix

Installation for a 4:3 ratio screen

Fi

The illustrations and table below are provided for those users who already have 4:3 aspect ratio screens or intend to purchase 4:3 aspect ratio screens to view 16:9 ratio projected images.



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

	Screer	n dimens	ions	Projection distance <d> [cm]</d>				
Diago <a> [inch		Height [cm]	Width <c> [cm]</c>	Min distance (with max zoom)	Average	Max distance (with min zoom)	Highest lens position <e> [cm]</e>	Image height <h> [cm]</h>
30	(76)	46	61	134	167	200	4.3	34
40	(102)	61	81	178	223	267	5.7	46
50	(127)	76	102	223	278	334	7.1	57
60	(152)	91	122	267	334	401	8.6	69
70	(178)	107	142	312	389	467	10.0	80
80	(203)	122	163	356	445	534	11.4	91
90	(229)	137	183	401	501	601	12.9	103
100	(254)	152	203	445	556	668	14.3	114
110	(279)	168	224	490	612	734	15.7	126
120	(305)	183	244	534	668	801	17.1	137
130	(330)	198	264	579	723	868	18.6	149
140	(356)	213	284	623	779	935	20.0	160
150	(381)	229	305	668	835	1001	21.4	171
160	(406)	244	325	712	890	1068	22.9	183
170	(432)	259	345	757	946	1135	24.3	194
180	(457)	274	366	801	1001	1202	25.7	206
190	(483)	290	386	846	1057	1269	27.1	217
200	(508)	305	406	890	1113	1335	28.6	229
YQUJ	Leso	n381	508	1113	1391	1669	35.7	286
300	(762)	457	610	1335	1669	2003	42.9	343

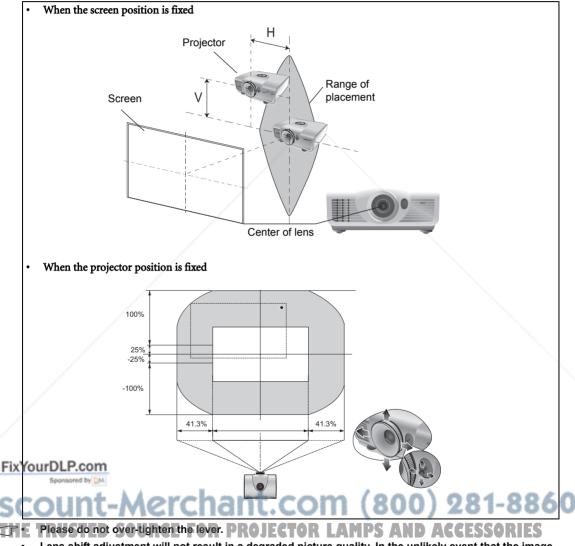
The above numbers are approximate and may be slightly different from the actual measurements. Only the recommended screen sizes are listed. If your screen size is not in the table above, please contact your dealer for assistance.

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

The lens shift is expressed as a percentage of the projected image height or width. It is measured as an offset from the projected image's vertical or horizontal center. You can use the lever to shift the projection lens in any direction within the allowable range depending on your desired image position.

To use the lens shift lever:

- 1. Release the lever by turning it counterclockwise.
- 2. Move the lever to adjust the projected image position.
- 3. Lock the lever by turning it clockwise.



Lens shift adjustment will not result in a degraded picture quality. In the unlikely event that the image distortion is produced, see "Adjusting the projected image" on page 25 for details.

Connecting with video equipment

You can connect the projector to any type of video equipment, such as a VCR, DVD 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	HDM12 HDM11	"Connecting HDMI devices" on page 17	Best
Component Video		"Connecting component-video devices" on page 18	Better
S-Video	s-Wideo	"Connecting S-Video or video devices" on page 18	Good
Video	VIDEO	"Connecting S-Video or video devices" on page 18	Normal
PC (D-SUB)	PC	"Connecting a computer" on page 19	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

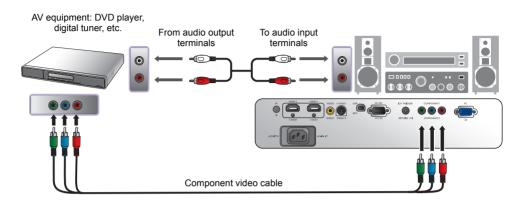
HDMI (High-Definition Multimedia Interface) supports uncompressed video data transmission between compatible devices like DTV tuners, DVD players and displays over a single cable. It provides pure digital viewing and listening experience. You should use an HDMI cable when making connection between the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

ixYourDibMi device: DVD player, digital tuner, etc.



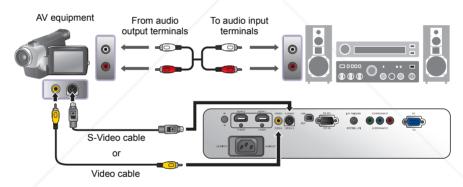
Connecting component-video devices

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.



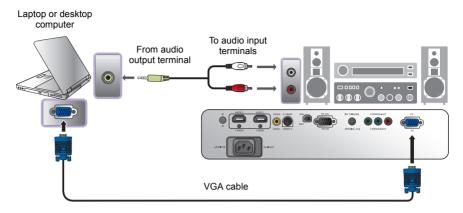
- If you have already made a Component Video connection between the projector and the video source device, you need not connect to this device again using an S-Video or composite Video connection as this makes an unnecessary second connection of poorer picture quality. You need only connect using a composite 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.



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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.

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 ON** (()) on the projector or remote control to turn the projector on.
- 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 23 for details.
- "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 21 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.

To select the video source:

• Using the remote control or projector

Press one of the Source keys on the remote control, or press **SOURCE** on the projector repeatedly until your desired signal is selected.

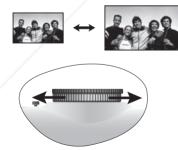
- Using the OSD menu
- 1. Press **MENU** and then press **◄**/ ► until the **System Setup** menu is highlighted.
- 2. Press ▼ to highlight **Input Source** and press **ENTER**. The source selection bar displays.
- 3. Press ▲/▼ repeatedly until your desired signal is selected and press **ENTER**.

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.

- If you want the projector to automatically search for the signals, select On in the System Setup > Auto Source Search menu.
- If you want to use the PIP function, see "Displaying more than one image source simultaneously" on page 35 for details.

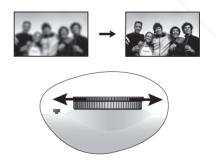
Fine-tuning the image size and clarity

1. Adjust the projected picture to the size that you need using the zoom ring.



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2. Sharpen the picture by rotating the focus ring.



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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.

(EXIT)Ba

Using the projector 21

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.



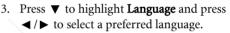
To use the OSD menus, please set the OSD menu to your familiar language.

1. Press **MENU** on the projector or remote control to 3 turn the OSD menu on.

🛐 🙀 🕼 🛷	*
Picture Basic	
<i>B</i> Picture Mode	Cinema
✤ Load Settings From	
 Brightness 	+ 50
Contrast	+ 50
Color	+ 50
① Tint	0
M Sharpness	+ 3
Reset Picture Settings	
Rename User Mode	/
	/
	(EXIT) Back

2. Use \triangleleft / \triangleright to highlight the **System Setup** menu.

stem Setup	
n Language	English
Splash Screen	BenQ
Projector Position	Floor Front
E5 Auto Off	Disable
🕰 Sleep Timer	Disable
Background Color	Blue
Menu Settings	
Input Source	
R Auto Source Search	Off
S-Video	(EXIT) Back



🔊 🚯 🚯 🛃 👌	8 😓
System Setup	
🔪 👧 Language	English
Splash Screen	BenQ
Projector Position	Floor Front
ES Auto Off	Disable
E Sleep Timer	Disable
Background Color	Blue
Menu Settings	
- Input Source	
🕸 Auto Source Search	Off
[····································	(EXIT)Back

4. Press **MENU** once or **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 17 on page 9 for details.

A Kensington security cable lock is usually a combination of key(s) and the lock. Refer to the lock's 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

C 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** on the projector or remote control and then press **◄**/► until the **Advanced Setup** menu is highlighted.
- 2. Press ▼ to highlight **Password** and press **ENTER**. The **Password** page displays.
- 3. Highlight **Password** and press **◄**/► to select **On**. 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.

If the function is used for the first time, enter the default password (1, 1, 1, 1, 1, 1) of the projector by pressing the arrow key \blacktriangle six times. Once the password is set, the OSD menu returns to the **Password** page.

IMPORTANT: The digits being input will display as asterisks onscreen. 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. To leave the OSD menu, press MENU.

If you forget the password

If the password function is activated, you will be asked to enter the sixdigit 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 24 for details.

If you enter an incorrect password 5 times in succession, the projector will automatically shut down in a short time. (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



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Entering the password recall procedure

- 1. Make sure the **Input Password** page displays on screen. Press and hold **PRESET MODE** 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** on the projector or remote control and then press **◄**/► until the **Advanced Setup** menu is highlighted.
- 2. Press ▲/▼ to highlight **Password** and press **ENTER**. The **Password** page displays.
- 3. Highlight Change Password and press 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** 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.

Disabling the password function

To disable password protection, go back to the **Advanced Setup** > **Password** > **Password** menu. Highlight **Password** and select **Off** by pressing ◀ /▶. The message "**Input 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 **Password**. 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 Password**" displays for your retry. You can either press **MENU** to cancel the

FixYourDLRageor 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.

EXIT) Back

Adjusting the projected image

Adjusting the projection angle

There are four adjuster feet on the bottom of the projector. These can be used if necessary to change the projection angle. Screw the feet in or out as appropriate to aim and level the projection angle.

[7] 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 25 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 stilled 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 (Left \triangleleft / \Box , Up \blacktriangle / \Box , Right \triangleright / \Box , Down \lor / \Box) to display the Keystone page.
 - ii. See step iv below for further operation.

Using the OSD menu

- i. Press **MENU** and then press $\triangleleft/\triangleright$ until the **Display** menu is highlighted.
- ii. Press ▼ to highlight Keystone and press ENTER. The Keystone page displays.
- iii. Highlight 2D Keystone and press ENTER. The keystone correction page displays.
- iv. 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











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:

- Using the remote control
- Press PRESET MODE repeatedly or USER 1, USER 2/ISF NIGHT, USER 3/ISF DAY, DEFAULT on the remote control, or PRESET MODE on the projector repeatedly until your desired mode is selected.
- Using the OSD menu
- 1. Press **MENU** and then press **◄**/► until the **Picture -- Basic** menu is highlighted.
- 2. Press ▼ to highlight **Picture Mode**.
- 3. Press $\triangleleft/\triangleright$ 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.
- User 1/User 2/User 3: Recalls the customized settings. See "Setting the User 1/User 2/User 3 mode" on page 27 for details.

Fine-tuning the selected picture mode

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

To fine-tune the picture mode:

- 1. Press **MENU** and then press **◄**/► until the **Picture -- Basic** or **Picture -- Advanced** menu is highlighted.
- 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.

Fix You See "Fixed ming the picture quality" on page 28 and "Advanced picture quality controls" on page 29 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. DACCESSORIES

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.

- In the Picture -- Basic menu, highlight Picture Mode and press
 ↓ to select User 1, User 2, or User 3 mode.
- 2. Press ▼ to highlight Load Settings From.

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

- 3. Press ENTER to display the Load Settings From page.
- 4. Press ▼ to highlight a picture mode that is closest to your need and press ENTER and EXIT.
- 5. Press ▼to select a sub-menu item to be changed and adjust the value with
 /▶. See "Fine-tuning the picture quality" on page 28 and "Advanced picture quality controls" on page 29 for details.
- 6. When all settings have been done, press **MENU** to save and leave the settings.

Renaming user modes

You can change **User 1**, **User 2**, and **User 3** to the names easy to be identified or understood by the users of this projector. The new name can be up to 12 characters including English letters (A-Z, a-z), digits (0-9), and space (_).

To rename user modes:

- 1. In the **Picture -- Basic** menu, highlight **Rename User Mode** and press **ENTER** to display the **Rename User Mode** page.
- 2. Press ▲/▼ to highlight the item you want to rename and press ENTER. The first letter will be highlighted by a white box.
- 3. Press \blacktriangle/ \lor to select the first character.
- 4. Press ► to move along until the new name is set and press **ENTER** to confirm.
- 5. Repeat steps 2-4 if you want to change the other names.

Resetting the picture mode

All of the adjustments you've done in the **Picture -- Basic** and **Picture -- Advanced** 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 -- Basic** menu, highlight **Picture 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 **ENTER**. The confirmation message displays.
- 3. Press **◄**/**▶** to highlight **Reset** and press **ENTER**. The picture mode will return to the factory preset **FixYouse Pinescom**
 - 4. Repeat steps 1-3 if you want to reset other picture modes.

Do not to be confused with the Reset Picture Settings function here with the Reset All Settings in the Advanced Setup menu. The Reset All Settings function returns most of the settings to the factory preset values system wide. See "Reset All Settings" on page 42 for details. S AND ACCESSOR IS

🔊 🖏 🎝 🚽	237 😂
Picture Basic	
😸 Picture Mode	User 1
🛫 Load Settings From	ENTER
 Brightness 	+50
Contrast	+50
• • •	+50
 Tint Sharpness 	+3
Reset Picture Settings	
Rename User Mode	
E S-Video	(EXIT) Back
Load Settings From	
Cinema Mode	ENTER
Dynamic Mode	
Standard Mode	
User 2	
User 2	
User 2	(EXIT) Back

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 -- Basic** 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 -- Basic** 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 -- Basic** menu and adjust the values by pressing $\triangleleft / \triangleright$ 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** 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.

This function is not available when the Picture Mode is ISF Night or ISF Day.

Adjusting Sharpness

Highlight **Sharpness** and adjust the values by pressing **◄**/► on the projector or remote control.

The higher the value, the sharper the picture becomes. The **Fix Kover the value**, the softer the picture becomes.



■ pressing BRIGHTNESS, COLOR, CONTRAST, TINT on the remote S control to display the adjustment bar and then you can press
I b to adjust the values.







Advanced picture quality controls

There are more advanced functions in the **Picture -- Advanced** menu to be adjusted to your preference. To save the settings, just press **MENU** to leave the OSD menu.

Setting Black Level

Highlight **Black Level** 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** and press **ENTER** on the projector or remote control to display the **Clarity Control** page.
- Press ▲/▼ to select the item you want to adjust 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.
 - **Detail Enhancement**: Sharpens the image. The higher the setting, the more details the image reveals.
 - Luma Transmission (Luminance Transmission Improvement): Enhances picture brightness. The higher the setting, the more distinct the effect.
 - **Chroma Transmission** (Chroma Transmission Improvement): Reduces color smear. The higher the setting, the more distinct the effect.

Selecting a color temperature*

Highlight Color Temperature 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.
- 5. User 1/User 2/User 3: Recalls the settings customized in the Color Temperature User_Fine Tuning
- menu. See "Setting a preferred color temperature" on page 30 for details.

*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.

🔊 🚺 🕼 🛷 🖇	
Picture Advanced	
Black Level	0 IRE
Clarity Control	
8 Color Temperature	Normal
18 Color Temperature User_ Fine Tuni	ng
Gamma Selection	2.4
e ₊ Brilliant Color	
Color Management	
Film Mode	On
🐁 3D Comb Filter	On
🗊 Dynamic Black	On
🖅 S-Video	EXIT) Back



0 IRE
Normal
2.4
On
On
On
On
EXIT Back
1

To set a preferred color temperature:

- Highlight Color Temperature and select User 1, User 2, or User 3 by pressing ◄/► on the projector or remote control.
- Press ▼ to highlight Color Temperature User_ Fine Tuning and press ENTER. The Color Temperature User_ Fine Tuning page displays.

The menu name "User_" corresponds with the setting selected in Color Temperature.

- 3. Press $\blacktriangle/\blacksquare$ to highlight the item you want to change and adjust the values by pressing $\blacktriangleleft/\blacksquare$.
 - · 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.
- 4. To save and leave the settings, press MENU once or EXIT twice.

Selecting a Gamma setting

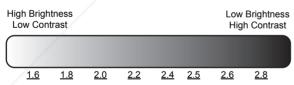
Highlight **Gamma Selection** and select a preferred setting by pressing \blacktriangleleft /

► on the projector or remote control.

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

- Gamma 1.6/1.8/2.0/BenQ1/BenQ2 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

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.

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pressing ◀/►.
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Color Temp User 1 Fine Tuning

Picture Advanced					
	Picture Advanced				
Black Level	0 IRE				
🙀 Clarity Control					
8 Color Temperature	Normal				
It Color Temperature User_ Fine Tunin					
Gamma Selection	2.4				
e ₊ Brilliant Color	On				
🔊 Color Management					
🏢 Film Mode	On				
🖕 3D Comb Filter	On				
😈 Dynamic Black	On				
🕣 S-Video	(EXIT) Back				

Picture Advanced	0 IRE				
Clarity Control					
8 Color Temperature	Normal				
ist Color Temperature User_ Fine Tuning					
Gamma Selection	2.4				
🗣 Brilliant Color	On				
🚓 Color Management					
III Film Mode					
3D Comb Filter					
Oynamic Black	On				
S-Video	(EXIT) Back				

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 **ENTER**. The **Color Management** page displays.
- Highlight Primary Color and press
 I to select a color from among Red, Yellow, Green, Cyan, Blue, and Magenta.
- 3. Press ▼ to highlight **Range** and press ◀ / ► to select the color range you wish to make adjustment. The bigger the range, the more proportions of its two adjacent colors the color contains.

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.

Press \blacksquare to highlight **Saturation** and adjust the color saturation level by pressing $\triangleleft / \triangleright$.

If you select **Red** and set its range at 0, only the saturation of the 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.

4. To leave and save the settings, press MENU once or EXIT twice.

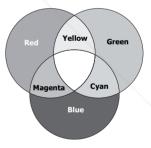
Setting Film Mode

This feature helps improve picture quality when projecting video image from a film-sourced DVD.

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Setting 3D Comb Filter

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 Video signal is selected

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

Press one of the aspect ratio keys to suit the format of the video signal and your display requirements.

- Using the OSD menu
- 1. Press **MENU** 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.

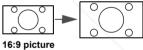
About the aspect ratio

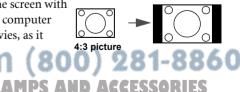
- 1. Anamorphic (ANA): Scales an image so that it is displayed in the center of the screen with a 16:9 aspect ratio. This setting stretches and resizes linearly, except that it treats the vertical and horizontal dimensions independently. It stretches the height of the source image until it reaches the 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.
- 4:3: Scales a picture so that it is displayed in the center of the screen with
 Fix You 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.

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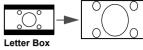
🕥 😚 🐼 🛷 🐉 🔩	5			
Picture Advanced				
Black Level	0 IRE			
Clarity Control				
18 Color Temperature	Normal			
Ist Color Temperature User_ Fine Tur				
Gamma Selection	2.4			
e+ Brilliant Color	On			
Color Management				
Film Mode	On			
3D Comb Filter	On			
C Dynamic Black	On			
- S-Video	(EXIT) Back			





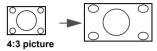


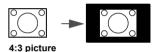
English



format picture

16:9 picture

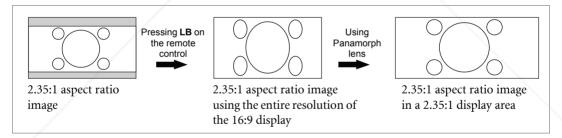




- 3. Letter Box (LB): Scales a picture to fit the projector's native resolution in its horizontal width and resize the picture's height to the 3/4 of the projection width. This may produce a picture greater in height than can be displayed, so part of the picture is lost (not displayed) along the top 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).
- 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. **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.
- The black portions are inactive areas and the white portions are active areas.
 - OSD menus can be displayed on those unused black areas.

Using Panamorph lenses (optional)

Panamorph lenses allow you to convert 16:9 projectors to the full 2.35:1 aspect ratio of most motion pictures, showing the best movies without letterbox bars at top and bottom of images while increasing resolution by 33% and brightness by 20%.



You may need a 2.35:1 screen to display the 2.35:1 images. For more information, please go to www.panamorph.com or contact the place you purchased the projector.



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** and then press **◄**/► until the **Advanced Setup** menu is highlighted.
- 2. Press **▼** to highlight **High Altitude Mode**.
- 3. Press **◄**/**▶** to select **On**. A confirmation message displays.
- 4. Highlight Yes and press ENTER.

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

If you use this projector under other extreme conditions excluding the above, it may display auto shut-down symptoms, which is designed to protect your projector from over-heating. In cases like this, you should switch to **High Altitude Mode** to solve these symptoms. However, this is not to state that this projector can operate under any and all harsh or extreme conditions.

N	§		A.	*	4	
Advanced Setup						
Ø Lamp Settings						
-	g budu hate					
4	High Alt	itude M	lode			On
	asswor					
	Key Loc Reset A		as			
	ISF	- octur	.95-			
⊕ S	-Video					(EXIT) Back
WA	RNI	IG				
High Altitude Mode is used when the environment is higher than 1500m. Do you want to turn the High Altitude Mode on? Yes No						



Displaying more than one image source simultaneously

Your projector is capable of displaying pictures simultaneously from two input sources, which can be used to enhance your presentation in an interesting way. Ensure the signals you want to display are correctly connected to the projector.

To display the PIP window:

• Using the remote control

Press **PIP** to display the **PIP** page and make adjustments by following the steps starting from step 3 in the section "Using the OSD menu" below.

When the PIP window is on, to change the PIP window size, press **SIZE** repeatedly until a desired size is selected.

When the PIP window is on, to change the PIP window position, press **POSITION** repeatedly until a desired position is selected.

When the PIP window is on, to highlight one of the sources to make adjustments, press **ACTIVE** repeatedly until the source is selected.

- Using the OSD menu
- 1. Press **MENU** and then press **◄**/► until the **Display** menu is highlighted.
- 2. Press ▼ to highlight **PIP** and press **ENTER**. The **PIP** page displays.
- 3. Highlight **PIP** and press $\triangleleft/\triangleright$ to select **On**.

The projector will select two currently active signals to display and the last viewed picture will be displayed on the big screen as a main source.

The PIP function is effective at below source combinations.

/	So	urce 2
Source 1	CVBS	S-Video
HDMI 1/2	V	V
Component 1/2	V	V
PC	V	V



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PTP

- 4. To change the Main Source or Second Source, press ▼ to highlight Main Source or **Second Source** and press **ENTER**. The source selection bar displays.
- 5. Use ▲/▼ to highlight the source you want to display for the main (bigger) or second (smaller) window, and press **ENTER** to save the setting and go back to the **PIP** page.
- 6. To make OSD settings to one of the two sources (main or second),

Fix Younghlight Active Window and press **< / >** to select the source you want to make adjustments.

The settings made on the OSD menus will only take effect on the active window. The following OSD menu function cannot work on the active windows for the PIP: Auto Source Search.

- 7. To change the position of the smaller picture, highlight **Position** and press **∢**/► repeatedly until a suitable position is selected.
 - 8. To resize the small picture, highlight **Size** and press **◄**/**▶** to set the PIP size among **Small** or **Large**.
 - 9. To save the settings and leave the OSD menu, press **MENU** once or **EXIT** repeatedly until the menu disappears.

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.

- Rename User Mode: See "Renaming user modes" on page 27 for details.
- Menu Display Time in the System Setup > Menu Settings menu sets the length of time the OSD will remain active after your last key press. The time length ranges from 5 to 30 seconds in 5-second increments. Use
 ✓ > to select a suitable time length.
- Menu Position in the System Setup > Menu Settings menu sets the OSD position in five locations. Use
 ◄ / ► to select a preferred position.
- Language in the System Setup menu sets your familiar language for the On-Screen (OSD) Menus. See "Using the menus" on page 22 for details.
- **Splash Screen** in the **System Setup** 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 ON/OFF** and **EXIT**.

To lock the keys:

- 1. Press **MENU** and then press **◄**/► until the **Advanced Setup** menu is highlighted.
- 2. Press ▼ to highlight **Key Lock**, and press **ENTER**. The control keys lock.

To unlock the keys, press and hold **EXIT** on the projector or remote control for 5 seconds.

Turning the projector off

To turn the projector off, press **POWER OFF** on the remote control to turn the projector off directly. Or you can press () on the projector and a warning message appears. Press () 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.
- Then, the Power indicator light is a steady orange once the cooling process has finished and fans stop.

Fix You 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. THE TRUSTED SOURCE FOR PROJECTOR LAP





Power Off



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 Mode	Cinema/Dynamic/Standa	rd/User 1/User 2/User 3		
	Load Settings From				
	Brightness		0–100		
	Contrast		0–100		
Picture	Color		0–100		
Basic	Tint		-20-+20		
	Sharpness		0–8		
	Reset Picture Settings				
	Rename User Mode				
	Black Level		0 IRE/7.5 IRE		
		Noise Reduction	0/1/2/3		
	Clarity Control	Detail Enhancement	0-5		
	Clarity Control	Luma Transmission	0/1/2		
		Chroma Transmission	0/1/2		
	Color Temperature		Normal/Cool/Lamp Native/Warm/User 1/Use 2/User 3		
		Red Gain	0–100		
		Green Gain	0–100		
	Color Temperature	Blue Gain	0–100		
Picture	User_ Fine Tuning	Red Offset	0–100		
Advanced		Green Offset	0–100		
		Blue Offset	0–100		
	Gamma Selection		1.6/1.8/2.0/2.2/2.4/2.5/2.6/2.8/BenQ1/BenQ2		
	Brilliant Color		On/Off		
		Primary Color	Red/Yellow/Green/Cyan/Blue/Magenta		
	Color Management	Range	0–100		
		Saturation	0–100		
	Film Mode		On/Off		
	3D Comb Filter		On/Off		
	Dynamic Black		On/Off		
/	Aspect Ratio		Anamorphic/4:3/Letter Box/Wide/Real		
	Keystone		2D Keystone		
	Position				
	Overscan Adjustment		0/1/2/3		
ourDLP.com		PIP	On/Off		
Sponsored by DM		Main Source	HDMI 1/HDMI 2/Video/S-Video/Component		
Display	Mercha	Second Source Active Window	Component 2/PC		
TRUSTED	SOURCE FOR	PrositionECTOR LA	Top-Right/Bottom-Left/Bottom-Right/Top- Left		
		Size	Large/Small		
		H.Size	-15-+15		
	PC & Component YPbPr Tuning	Phase	-15–+15		
	icoci iuiiliy	Auto			

	Language		English/Français/Deutsch/Italiano/ Español/Русский/繁體中文/简体中文/ 日本語/한국어/Svenska/Nederlands/ Türkçe/Čeština/Português/ གག / Polski	
	Splash Screen		BenQ/Blue/Black	
	Projector Position		Floor Front/Ceiling Front/Floor Rear/Ceiling Rear	
System Setup	Auto Off		Disable/5 min/10 min/15 min/20 min/25 min/ 30 min	
System Setup	Sleep Timer		Disable/30 min/60 min/90 min/120 min/150 min/180 min	
	Background Color		Black/Purple/Blue	
		Menu Display Time	5 sec/10 sec/15 sec/20 sec/25 sec/30 sec	
	Menu Settings	Menu Position	Center/Top-Left/Top-Right/Bottom-Right/ Bottom-Left	
	Input Source		HDMI 1/HDMI 2/Video/S-Video/Component 1/ Component 2/PC	
	Auto Source Search		On/Off	
		Lamp Power	Normal/Economic	
	Lamp Settings	Reset Lamp Timer		
		Equivalent Lamp Hour		
			Auto	
	HDMI Settings	HDMI Format	PC Signal	
			Video Signal	
Advanced	Baud Rate	/	2400/4800/9600/14400/19200/38400/57600/ 115200	
Setup	Test Pattern			
	High Altitude Mode		On/Off	
		Password	On/Off	
	Password	Change Password	(inputs current password)	
	Key Lock			
	Reset All Settings			
	ISF		(inputs current password)	
/	Source			
Information	Picture Mode			
	Resolution			
	Equivalent Lamp Hour			
	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.

The default values listed in this manual, especially on pages 39-41, are for reference only. They may vary **Fix between the projectors** due to the continuous improvement to the products.

Picture -- Basic menu

Function (default setting/value)	Description
Picture Mode (Standard)	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 26 for details.
Load Settings From	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 27 for details.
Brightness (50)	Adjusts the brightness of the picture. See "Adjusting Brightness" on page 28 for details.
Contrast (50)	Adjusts the degree of difference between dark and light in the picture. See "Adjusting Contrast" on page 28 for details.
Color (50)	Adjusts the color saturation level the amount of each color in a video picture. See "Adjusting Color" on page 28 for details.
Tint (0)	Adjusts the red and green color tones of the picture. See "Adjusting Tint" on page 28 for details.
Sharpness (depends on the selected input source)	Adjusts the picture to make it look sharper or softer. See "Adjusting Sharpness" on page 28 for details.
Reset Picture Settings	Returns all settings in the Picture Basic and Picture Advanced menus to the factory preset values. See "Resetting the picture mode" on page 27 for details.
Rename User Mode	Renames User 1 , User 2 , or User 3 . See "Renaming user modes" on page 27 for details.

Picture -- Advanced menu

	Function (default setting/value)	Description		
	Black Level (0 IRE)	Sets the picture grayscale as 0 IRE or 7.5 IRE . See "Setting Black Level" on page 29 for details.		
	Clarity Control	Adjusts the picture clarity. See "Controlling image clarity" on page 29 for details.		
	Color Temperature (depends on the selected Picture Mode)	There are several color temperature settings available. See "Selecting a color temperature*" on page 29 for details.		
	Color Temperature User_ Fine Tuning	See "Setting a preferred color temperature" on page 30 for details.		
Fix	Gamma Selection (Gepends on the selected Picture Mode)	See "Selecting a Gamma setting" on page 30 for details.		
Dis	Brilliant Color (On)	See "Adjusting Brilliant Color" on page 30 for details.		
TH	Color Management	See "Color Management" on page 31 for details.		
	Film Mode (On)	See "Setting Film Mode" on page 31 for details.		

3D Comb Filter (On)	See "Setting 3D Comb Filter" on page 32 for details.
Dynamic Black (On)	Automatically changes the black level of the projected pictures to enhance the effect of contrast ratio.

Display menu

Function (Default setting/value)	Description		
Aspect Ratio (Anamorphic)	There are several options to set the picture's aspect ratio depending on your input source. See "Selecting the aspect ratio" on page 32 for details.		
Keystone (0)	Corrects any keystoning of the picture. See "Correcting picture distortion" on page 25 for details.		
Position (0)	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 Component 1, Component 2, or PC signal is selected.		
Overscan Adjustment (depends on the selected input source)	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.		
PIP	Turns the PIP window on or off and makes related adjustments. See "Displaying more than one image source simultaneously" on page 35 for details.		
PC & Component YPbPr Tuning	H.Size Adjusts the horizontal width of the picture. Phase Adjusts the clock phase to reduce picture distortion. Auto Adjusts the phase, and frequency automatically These functions are only available when the Component 1, Component 2, or PC signal is selected.		

System Setup menu

	Function (Default setting/value)	Description
	Language (English)	Sets the language for the On-Screen Display (OSD) menus. See "Using the menus" on page 22 for details.
5	Splash Screen Fix ଏଖିମାର ଅନ୍ୟୁତ	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 (Floor Front)	The projector can be installed on a ceiling or behind a screen, or with one or more mirrors. See "Choosing a location" on page 12 for details.
	Auto Off (Disable)	Prevents unnecessary projection when no signal is detected for a long time. See "Setting Auto Off" on page 44 for details.
	Sleep Timer (Disable)	Sets the auto-shutdown timer. The timer can be set to a value between 30 minutes and 3 hours.

Background Color (Blue)	Allows you to choose the color of the background screen that will be displayed when there is no input source detected.		
	Menu Display Time (10 sec)		
Menu Settings	Sets the length of time the OSD will remain active after your last key press. The range is from 5 to 30 seconds in 5-second increments.		
	Menu Position (Center)		
	Sets the On-Screen Display (OSD) menu position.		
Input Source	Selects an input source to be projected. See "Selecting an input source" on page 21 for details.		
Auto Source Search (Off)	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.		

Advanced Setup menu

-			
Function (Default setting/value)	Description		
	Lamp Power (Normal)		
	Selects the projector lamp power between Normal and Economic modes.		
	Reset Lamp Timer		
Lamp Settings	Once the lamp is renewed, select Reset to return the lamp timer to "0". See "Resetting the lamp timer" on page 47 for details.		
	Equivalent Lamp Hour		
	Shows the lamp hour information. See "Getting to know the lamp hour" on page 44 for details.		
	Selects an input source type for the HDMI signal. Auto is the default and		
HDMI Settings	recommended setting. You can also manually select the source type. The		
(Auto)	different source types carry different standards for the brightness level.		
	This function is only available when the HDMI signal is selected.		
Baud Rate	Selects a baud rate that is identical with your computer's so that you can connec		
(115200)	the projector using a suitable RS-232 cable and update or download the		
(projector's firmware. This function is intended for qualified service personnel.		
	Press ENTER to display the grid test pattern. It helps you adjust the image size		
Test Pattern	and focus and check that the projected image is free of distortion. The function is only available when the projector detects no input		
	The function is only available when the projector detects no input signal.		
High Altitude Mode	A mode for operation in areas like high altitude or high temperature. See		
(Off)	"Operating in a high altitude environment" on page 34 for details.		
	Password (Off)		
YourDLP.com	Limits use of the projector to only those who know the correct password. See		
Password	"Utilizing the password function" on page 23 for details.		
Password	Change Password		
count-me	You will be asked to enter the current password before changing to a new one.		
E TRUSTED SOUR	See "Utilizing the password function" on page 23 for details.		
	Locks the keys on the projector and remote control except POWER ON/OFF		
Key Lock	Locks the keys on the projector and remote control except POWER ON/OFF		

	Returns all settings to the factory preset values.		
Reset All Settings	The following settings will still remain: names of user modes, Keystone, Language, Projector Position, High Altitude Mode, Password, Key Lock, and ISF.		
ISF	The ISF calibration menu is password protected and only accessible by authorized ISF calibrators. The ISF (Imaging Science Foundation) has developed carefully crafted, industry-recognized standards for optimal video performance and has implemented a training program for technicians and installers to use these standards to obtain optimal picture quality from BenQ video display devices. Accordingly, we recommend that setup and calibration be performed by an ISF certified installation technician.		
	For more information, please go to www.imagingscience.com or contact the place you purchased the projector.		

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.			
Picture Mode	Shows the selected mode in the Picture Basic > Picture Mode menu.		
Resolution	Shows the native resolution of the input source.		
Equivalent Lamp Hour	Shows the total lamp time used.		
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

Fix His recommended that you ship the projector with its original packing or equivalent.

Lamp information

Getting to know the lamp hour

When the projector is in operation, the duration (in hours) of lamp usage is automatically calculated by the built-in timer. The method of calculating the equivalent lamp hour is as follows:

Equivalent lamp hour

= 1 (hours used in **Economic** mode) + 3/2 (hours used in **Normal** mode)

See "Setting Lamp Power as Economic" below for more information on Economic mode.

To obtain the lamp hour information:

- 1. Press **MENU** and then press **◄**/► until the **Advanced Setup** menu is highlighted.
- 2. Press ▼ to highlight Lamp Settings and press 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.

Extending lamp life

The projection lamp is a consumable item that normally can last up to 2000-3000 hours with proper usage. To keep the lamp life as long as possible, you can do the following settings via the OSD menu.

• Setting Lamp Power as Economic

Using **Economic** mode reduces system noise and power consumption. If the **Economic** mode is selected, the light output will be reduced and result in darker projected pictures.

Setting the projector in **Economic** mode also extends the lamp life. To set **Economic** mode, go to the **Advanced Setup** > **Lamp Settings** > **Lamp Power** menu and press **◄**/**▶**.

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** > **Auto Off** menu and press $\triangleleft/\triangleright$ 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.

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dvanced Setup

Lamp Settings

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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 48 for details.

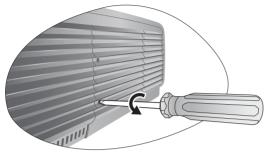
The following Lamp warning displays will remind you to change the lamp.

Status	Message
The lamp has been in operation for 2000 hours. Install a new lamp for optimal performance. If the projector is normally run with Economic selected (See "Getting to know the lamp hour" on page 44), you may continue to operate the projector until the 2980 hour lamp warning appears. Press ENTER to dismiss the message.	WARNING NOTICE: Order replacement lamp Lamp > 2000hrs Order a new lamp at lamp.benq.com OK
The lamp has been in operation for 2980 hours. It is strongly recommended that you replace the lamp at this age. The lamp is a consumable item. The lamp brightness diminishes with use. This is normal lamp behavior. You can replace the lamp whenever you notice that the brightness level has significantly diminished. If the lamp is not replaced beforehand, it should be replaced after 2980 hours usage. Press ENTER to dismiss the message.	WARNING NOTICE: Replace lamp soon Lamp > 2980hrs Order a new lamp at lamp.benq.com OK
The lamp has been in operation for 3000 hours. The lamp MUST be replaced before the projector will operate normally. Press ENTER to dismiss the message.	WARNING NOTICE: Replace lamp now Lamp > 3000hrs Lamp-usage time exceeded Replace lamp (refer to User's Manual) then reset lamp time. Order a new lamp at lamp.benq.com OK

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 Fix your 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 U HE 1ª proper manner. OURCE FOR PROJECTOR LAMPS AND ACCESSORIES

- Turn the power off and disconnect the projector from the power outlet. Turn off all connected equipment and disconnect all other cables. See "Turning the projector off" on page 36 for details.
- 2. Slightly lift the projector up. Loosen the screws on the lamp cover (located on the left side).



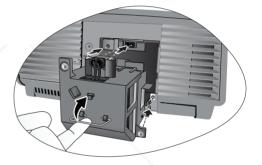
3. Remove the lamp cover.



- 4. Loosen the screws that hold the lamp to the projector. If the screws are not loosened completely, they could injure your fingers.
- 5. Lift the handle so that it is perpendicular to the lamp. Use the handle to slowly pull the lamp out of the projector.

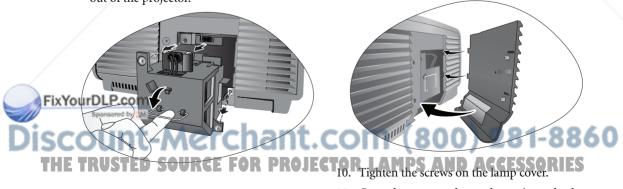
Notes

- Pulling it too quickly may cause the lamp to break and scatter broken glass in the projector. To reduce the risk of injuries to fingers and damage to internal components, use caution when removing lamp glass that has shattered.
- Do not place the lamp in locations where water might splash on it, children can reach it, near or above heat sources, or near flammable materials.
- Do not insert your hand into the projector when the lamp is removed. If you touch the optical components inside, it could cause blurred images.
- 6. Insert the replacement lamp. Make sure it is pushed fully and firmly in place.
- 7. Tighten the screws securing the lamp box.
- 8. Ensure the handle is fully locked in place.



Notes

- Please be careful to not over-tighten the screws.
- Loose screws may cause a bad connection, which could result in malfunction.
- 9. Re-install the lamp cover.



11. Reapply power and turn the projector back on.

English

Resetting the lamp timer

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

- 1. After the start-up logo, press **MENU** and then press → until the **Advanced Setup** menu is highlighted.
- 2. Press ▼ to highlight Lamp Settings and press ENTER. The Lamp Settings page displays.
- 3. Highlight **Reset Lamp Timer** and press **ENTER**. A warning message displays asking if you want to reset the lamp timer. Highlight **Reset** and press **ENTER**. The lamp time will be reset to "0".

Advanced Setup	
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Baud Rate 115200 Tost Pattern 115200 JT ost Pattern 0' Password 0' Key Lock Sest All Settings ISF S-Video (EXIT) Lamp Settings Lamp Power Normal Reset Lamp Timer €HIEA Equivalent Lamp Hour	
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Equivalent Lamp Hour	
(EVIT	
EVIT	
LAIT	Back
WARNING	
Reset Lamp Timer?	
Reset Cancel	



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		Stand-by mode	
Green Flashing	Off	Off	Powering up	
Green	Off	Off	Normal operation	
Orange Flashing	Off	Off	 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	 The lamp has been damaged. Please contact your local BenQ customer center for purchasing a new lamp. The lamp is not properly attached. The lamp has been damaged. Please contact your local BenQ customer center for purchasing a new lamp. 		
Orange	Off	Red			
Off	Red	Off			
Off	Red	Red	The fame are not working		
Off	Red	Green	— The fans are not working.		
Off	Red	Orange			
Off	Green	Red	Fan sensors error	The projector has shut down	
Off	Green	Orange	Fans do not rotate during powering up.	automatically. If you try to re- start the projector, it will shut down again. Please contact your dealer for assistance.	
Off	Orange	Red			
Red	Red	Red			
Red	Red	Green		dealer for assistance.	
Red	Red	Orange	Thermal condition error		
Green	Red	Red			
Green	Red	Green			
Green	com Red	Orange			
Orange	аъ 🔜 Red	Red	 The internal temperature is too high. 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. 		
Orange	Red	Green			
Orange	TED Red UP	Orange			

TI

English

Troubleshooting

Problem	Cause	Remedy	
The projector does not	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 20.)	
turn on.	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 45.)	
	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 17.)	
No picture.	The projector is not correctly connected to the input source device.	Check the connection. (See page 17.)	
	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 21.)	
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 17.)	
	The projection lens is not correctly focused.	Adjust the focus of the lens using the focus ring. (See page 21.)	
Picture is blurred.	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 25.)	
	The batteries are out of power.	Replace both of the batteries with new ones. (See page 7.)	
Remote control does not work correctly.	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.)	

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Specifications

All specifications are subject to change without notice.

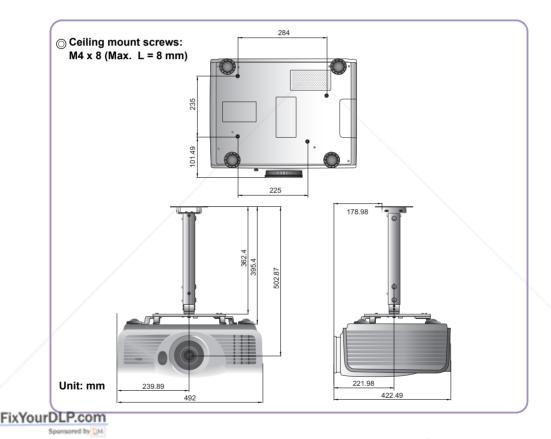
 Optical Projection system DMD chip Lens Projection screen size Lamp Electrical 	Single-chip DLP TM system. 0.65" DLP (1920 x 1080) F = 2.48 to 2.83, f = 24.1 to 36.14 mm 28" to 300" 280W
Compatibility	PC: 640 x 400 to 1920 x 1200
	Video: NTSC, PAL, SECAM, YPbPr (480i/480p/576i/576p), HDTV (720p/1080i/1080p)
Color Space ■ Terminals	DDC 2B Typ. = 70% NTSC (Target Color Gamut = HDTV Rec. 709)
Input	Analog RGB: D-Sub 15-pin (female) x 1
	HDMI (V. 1.3) x 2
	Component Video (Y/CB/CR, Y/PB/PR) x 1
	Component Video (Y/CB/CR, Y/PB/PR) x 1 (shared with RGB input)
	Composite Video x 1
Output	S-Video x 1 12VDC (Max. 0.5 A)
Control	Serial Connector: RS232 9 pin (male)
	Mini B type USB x 1
	IR receiver x 2
General characteristics	
Projector weight Power	6.7 kg (14.8 lbs) VAC 100-240V, 3.9A, 50-60Hz (Automatic)
Power consumption	Max. 430W; Standby < 1 W
Operating temperature	0 °C to 35 °C at sea level
Operating humidity	10% - 90% (without condensation)
Operating altitude	0-1499 m at 0°C-35°C
FixYourDLP.com	1500-3000 m at 23°C-30°C (with High Altitude Mode on)
Storage humidity	-20°C- 60°C/-4°F to 140°F 10% - 90% (800) 281-8860
THE TRUSTED SOURCE F	OR PROJECTOR LAMPS AND ACCESSORIES

Dimensions

428 mm x 317 mm x 145 mm (W x D x H)



■ Ceiling mount installation



■ Timing chart

Supported timing for PC input

Format	Resolution	Refresh rate (Hz)	H. Frequency (KHz)	Pixel Frequency (MHz)
720 x 400	720 x 400	70.087	31.469	28.3221
		59.94	31.469	25.175
		72.809	37.861	31.5
640 x 480	640 x 480	75	37.5	31.5
		85.008	43.269	36
		56.25	35.156	36
		60.317	37.879	40
800 x 600	800 x 600	72.188	48.077	50
		75	46.875	49.5
		85.061	53.674	56.25
		60.004	48.363	65
		70.069	56.476	75
1024 x 768	1024 x 768	75.029	60.023	78.75
		84.997	68.667	94.5
1024 x 576	1024 x 576	60	35.82	46.996
1024 x 600	1024 x 600	64.995	41.467	51.419
1152 x 864	1152 x 864	75	67.5	108
1102 x 004	1102 X 004	60	47.396	68.25
		59.87	47.776	79.5
1280 x 768	1280 x 768	74.893	60.289	102.25
		84.837	68.633	117.5
		59.81	49.702	83.5
1280 x 800	1280 x 800	74.934	62.795	106.5
1200 x 000	1280 x 800	84.88	71.554	122.5
		60.02	63.981	122.5
1000 × 1004	1000 x 1004	75.025	79.976	135
1280 x 1024	1280 x 1024	85.024	91.146	157.5
		60	60	107.5
1280 x 960	1280 x 960	85.002	85.938	148.5
1000 x 700	4000 x 700			
1360 x 768	1360 x 768	60.015	47.712	85.5
		60	55.469	88.75
1440 x 900	1440 x 900	59.887	55.935	106.5
		74.984	70.635	136.75
1100 1050	4400 4050	84.842	80.43	157
1400 x 1050	1400 x 1050	59.978	65.317	121.75
1600 x 1200	1600 x 1200	60	75	162
1680 x 1050	1680 x 1050	59.883	64.674	119
		59.954	65.29	146.25
1920 x 1200	1920 x 1200	59.95	74.038	154
(MAC13)	640 x 480@67Hz	66.667	35	30.24
832 x 624@75Hz (MAC16)	832 x 624@75Hz	74.546	49.722	57.28
1024 x 768@75Hz (MAC19)	1024 x 768@75Hz	ROJE75.02 R L	MPS60.241D A	cesseries
1152 x 870@75Hz (MAC21)	1152 x 870@75Hz	75.06	68.68	100

English

Supported timing for HDMI (HDCP) input

	•	· · ·			
Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)	Aspect
480i	720 x 480	59.94/60	15.734/15.75	27/27.027	16:9
480p	720 x 480	59.94/60	31.469/31.5	27/27.027	16:9
576i	720 x 576	50	15.625	27	16:9
576p	720 x 576	50	31.25	27	16:9
720/50p	1280 x 720	50	37.5	74.25	16:9
720/60p	1280 x 720	59.939/60	44.955/45	74.175/74.25	16:9
1080/50i	1920 x 1080	50	28.125	74.25	16:9
1080/60i	1920 x 1080	59.939/60	33.716/33.75	74.175/74.25	16:9
1080/24P	1920 x 1080	23.976/24	26.973/27	74.175/74.25	16:9
1080/25P	1920 x 1080	25	28.125	74.25	16:9
1080/30P	1920 x 1080	29.97/30	33.716/33.75	74.175/74.25	16:9
1080/50P	1920 x 1080	50	56.25	148.5	16:9
1080/60P	1920 x 1080	59.939/60	67.432/67.5	148.35/148.5	16:9

Supported timing for EDTV and HDTV (via Component inputs)

Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)
480i	720 x 480	59.94/60	15.734/15.75	13.5
480p	720 x 480	59.94/60	31.469/31.5	13.5
576i	720 x 576	50	15.625	27
576p	720 x 576	50	31.25	27
720/50p	1280 x 720	50	37.5	74.25
720/60p	1280 x 720	59.939/60	44.955/45	74.175/74.25
1080/50i	1920 x 1080	50	28.125	74.25
1080/60i	1920 x 1080	59.939/60	33.716/33.75	74.175/74.25
1080/24P	1920 x 1080	23.976/24	26.973/27	74.175/74.25
1080/25P	1920 x 1080	25	28.125	74.25
1080/30P	1920 x 1080	29.97/30	33.716/33.75	74.175/74.25
1080/50P	🖊 1920 x 1080	50	56.25	148.5
1080/60P	1920 x 1080	59.939/60	67.432/67.5	148.35/148.5

Supported timing for Video and S-Video inputs

	Format	Resolution	Refresh rate (Hz)	H. Freq. (KHz)	Pixel Freq. (MHz)
Eiv	NTSC 3.58	-	59.94/60	15.734/15.75	3.58
	NTSC 4.43	-	59.94/60	15.734/15.75	4.43
Dic	PAL-B/G	Aercha	50	15.625	4.43
DIS	PAL M	NCILIIG	59.94/60	15.734/15.75	3.58
TH	E TREATED S	DURCE FOR P	ROJE 50 OR LA	MPS15.625D AG	CESS3.58 ES
	PAL 60	-	59.94/60	15.734/15.75	4.43
	SECAM	-	50	15.625	4.25/4.41

Warranty and Copyright information

Warranty

BenQ warrants this product against any defects in material and workmanship, under normal usage and storage.

Proof of purchase date will be required with any warranty claim. In the event this product is found to be defective within the warranty period, BenQ's only obligation and your exclusive remedy shall be replacement of any defective parts (labor included). To obtain warranty service, immediately notify the dealer from which you purchased the product of any defects.

Important: The above warranty shall be void if the customer fails to operate the product in accordance with BenQ's written instructions, especially the ambient humidity must be in-between 10% and 90%, temperature in-between 0°C and 35°C, altitude lower than 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.

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

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Regulation statements

FCC statement (for United States users)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

CLASS B: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

EEC statement (for European users)

This machine was tested against the 89/336/EEC (European Economic Community) for EMC (Electro Magnetic Compatibility) and fulfills these requirements.

MIC statement

B class equipment (Household purpose info/telecommunications equipment)

As this equipment has undergone EMC registration for household purpose, this product can be used in any area including residential areas.

WEEE directive

Disposal of Waste Electrical and Electronic Equipment by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more information about recycling of this equipment, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.



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Accessibility Requirements for Rehabilitation Act of 1973, Section 508

BenQ's commitment to accessible products allows us to support government in making accessible technology choices BenQ's LCD monitors and projectors are compliant with Section 508 guidelines by including the assistive features as below:

- BenQ's monitors have colored "Power" indicators. While the indicator shows green, it means that the monitor is using the full power. While the indicator shows yellow or amber, it means that the monitor is in suspend or sleep mode and is using less than 2 watts of electricity.
- BenQ's monitors have a variety of settings of pre-programmed flicker-free timing to make the screen shown on the monitor readily accessible. The default timing setting is automatically turned on every time the monitor is powered up, and thus reduces the hassle of user intervention.
- BenQ's monitors and projectors have options for brightness and contrast adjustments that text and images could be displayed differently to meet the demands of the visually impaired. Other similar adjustments are also available by using the On-Screen Display (OSD) controls on the products.
- BenQ's monitors and projectors include user-selectable color controls, such as color temperature selections (Monitor: 5800K, 6500K and 9300K, Projector: 5500K, 6500K, 7500K and 9300K), with a wide range of contrast levels.
- BenQ's multimedia monitors and projectors usually have one or two speakers for audio performance which allow users (including hearing impaired) to interact with the computer systems connected. Speaker controls are typically located on the front-panel.
- Firmware of BenQ's monitors and projectors contain unique product information that helps computer systems to identify BenQ products and activate their Plug-and-Play function when connected.
- All BenQ's monitors and projectors are compatible with the PC99 standard. For example, connectors are color-coded to help users easily connecting products to computer systems correctly.
- Some models of BenQ's monitors and projectors contain additional USB and DVI ports for connection to more devices such as a special headphone to assist the hearing impaired.
- All BenQ monitors and projectors come with user manuals on compact discs which could be easily read by commercial software such as Adobe Reader via a connected computer system. These documents are also available on the BenQ's web site (www.BenQ.com). Other types of documents may be available upon requests.
- BenQ's customer service provides answers and assistance to all our customers through phone calls, facsimiles, e-mails, or web sites.

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Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com