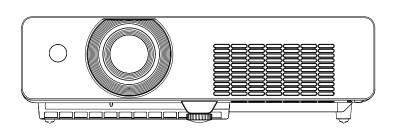
Panasonic®

Operating Instructions

Projector Operations

LCD Projector | Commercial Use

Model No. PT-LX22E PT-LX26E





Thank you for purchasing this Panasonic Product.

■ Before operating this product, please read the instructions carefully and save this manual for future use.

Read this first!

WARNING: THIS APPARATUS MUST BE EARTHED.

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 70 dB (A) according to ISO 7779.

WARNING:

- Remove the plug from the mains socket when this unit is not in use for a prolonged period of time.
- To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not remove the earthing pin on the mains plug. This apparatus is equipped with a three prong earthing type mains plug. This plug will only fit an earthing-type mains socket. This is a safety feature. If you are unable to insert the plug into the mains socket, contact an electrician. Do not defeat the purpose of the earthing plug.

CAUTION:

To assure continued compliance, follow the attached installation instructions, which includes using the provided power cord and shielded interface cables when connecting to computer or peripheral device. If you use serial port to connect PC for external control of projector, you must use optional RS-232C serial interface cable with ferrite core. Any unauthorized changes or modifications to this equipment will void the user's authority to operate.

EEE Yönetmeliğine Uygundur.

EEE Complies with Directive of Turkey.



WARNING:

TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DONOT EXPOSE THIS PRODUCT

TO RAIN OR MOISTURE.

WARNING: RISK OF ELECTRIC SHOCK, DO NOT OPEN.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:

■ POWER

The wall outlet or the circuit breaker shall be installed near the equipment and shall be easily accessible when problems occur. If the following problems occur, cut off the power supply immediately.

Continued use of the projector in these conditions will result in fire or electric shock.

- If foreign objects or water get inside the projector, cut off the power supply.
- If the projector is dropped or the cabinet is broken, cut off the power supply.
- If you notice smoke, strange smells or noise coming from the projector, cut off the power supply. Please contact an Authorized Service Center for repairs, and do not attempt to repair the projector yourself.

During a thunderstorm, do not touch the projector or the cable.

Electric shocks can result.

Do not do anything that might damage the power cord or the power plug.

If the power cord is used while damaged, electric shocks, short-circuits or fire will result.

• Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.

Ask an Authorized Service Center to carry out any repairs to the power cord that might be necessary.

Insert the power plug securely into the wall outlet.

If the plug is not inserted correctly, electric shocks or overheating will result.

- Do not use anything other than the provided power cord.
- Do not use the provided power cord for other electrical equipment.
- Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

Clean the power plug regularly to prevent it from becoming covered in dust.

Failure to observe this will cause a fire.

- If dust builds up on the power plug, the resulting humidity can damage the insulation.
- If not using the projector for an extended period of time, pull the power plug out from the wall outlet. Pull the power plug out from the wall outlet and wipe it with a dry cloth regularly.

Do not handle the power plug with wet hands.

Failure to observe this will result in electric shocks.

Do not overload the wall outlet.

If the power supply is overloaded (ex., by using too many adapters), overheating may occur and fire will result.

■ ON USE/INSTALLATION

Do not place liquid containers on top of the projector.

If water spills onto the projector or gets inside it, fire or electric shocks will result.

If any water gets inside the projector, contact an Authorized Service Center.

Do not place the projector on soft materials such as carpets or sponge mats.

Doing so will cause the projector to overheat, which can cause burns, fire or damage to the projector.

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with oily smoke or steam, ex. a bathroom.

Using the projector under such conditions will result in fire, electric shocks or components deterioration. Components deterioration (such as ceiling mount brackets) may cause the projector which is mounted on the ceiling to fall down.

Do not install this projector in a place which is not strong enough to take the full weight of the projector or on top of a surface which is sloped or unstable.

Failure to observe this will cause projector to fall down or tip over the projector, and severe injury or damage could result.

Do not place another projector or other heavy objects on top of the projector.

Failure to observe this will cause the projector to become unbalanced and fall, which could result in damage or injury. The projector will be damaged or deformed.

Read this first!

WARNING:

Installation work (such as ceiling mount bracket) should only be carried out by a qualified technician.

If installation is not carried out and secured correctly it can cause injury or accidents, such as electric shocks.

- Do not use anything other than an authorized ceiling mount bracket.
- Be sure to use the provided accessory wire with an eye bolt as an extra safety measure to prevent the projector from falling down. (Install in a different location to the ceiling mount bracket)

Do not cover the air inlet port or the air outlet port.

Doing so will cause the projector to overheat, which can cause fire or damage to the projector.

- Do not place the projector in narrow, badly ventilated places such as closets or bookshelves.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air inlet port.

Do not place your hands or other objects close to the air outlet port.

Doing so will cause burns or damage your hands or other objects.

 Heated air comes out of the air outlet port. Do not place your hands or face, or objects which cannot withstand heat close to this port.

Do not look and place your skin into the lights emitted from the lens while the projector is being used. Doing so can cause burns or loss of sight.

- Strong light is emitted from the projector's lens. Do not look or place your hands directly into this light.
- Be especially careful not to let young children look into the lens. In addition, turn off the power and disconnect the power plug when you are away from the projector.

Do not insert any foreign objects into the projector.

Doing so will cause fire or electric shocks.

• Do not insert any metal objects or flammable objects into the projector or drop them onto the projector.

Never attempt to remodel or disassemble the projector.

High voltages can cause fire or electric shocks.

For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Do not project an image with the lens cover attached.

Doing so can cause fire.

Do not allow metal objects, flammable objects, or liquids to enter inside of the projector. Do not allow the projector to get wet.

Doing so may cause short circuits or overheating, and result in fire, electric shock, or malfunction of the projector.

- Do not place containers of liquid or metal objects near the projector.
- If liquid enters inside of the projector, consult your dealer.
- Particular attention must be paid to children.

Use the ceiling mount bracket specified by Panasonic.

Defects in the ceiling mount bracket will result in falling accidents.

• Attach the supplied safety cable to the ceiling mount bracket to prevent the projector from falling down.

Be sure to ask authorized personnel or your supplier when mounting the product to a ceiling.

This requires an optional ceiling mount bracket.

Model No.: ET-PKV100H (for high ceilings), ET-PKV100S (for low ceilings),

ET-PKL100B (Projector Mount Base).

WARNING:

ACCESSORIES

Do not use or handle the batteries improperly, and refer to the following.

Failure to observe this will cause burns, batteries to leak, overheat, explode or catch fire.

- Do not use unspecified batteries.
- Do not disassemble dry cell batteries.
- Do not heat the batteries or place them into water or fire.
- Do not allow the + and terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.
- Do not store batteries together with metallic objects.
- Store the batteries in a plastic bag and keep them away from metallic objects.
- Make sure the polarities (+ and -) are correct when inserting the batteries.
- Do not use a new battery together with an old battery or mix different types of batteries.
- Do not use batteries with the outer cover peeling away or removed.
- Remove the empty batteries from the remote control at once.
- Insulate the battery using tape or something similar before disposal.

Do not allow children to reach the batteries (AAA/R03 or AAA/LR03 type).

- The battery can cause personal injury if swallowed.
- If swallowed, seek medical advice immediately.

If the battery fluid leaks, do not touch it with bare hands, and take the following measures if necessary.

- Battery fluid on your skin or clothing could result in skin inflammation or injury. Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight.
 In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

Do not disassemble the lamp unit.

If the lamp breaks, it could cause injury.

Lamp replacement

The lamp has high internal pressure. If improperly handled, an explosion and severe injury or accidents will result

- The lamp can easily explode if struck against hard objects or dropped.
- Before replacing the lamp, be sure to disconnect the power plug from the wall outlet. Electric shocks or explosions can result if this is not done.
- When replacing the lamp, turn the power off and allow the lamp it to cool for at least 45 minutes before handling it otherwise it can cause burns.

Do not allow infants or pets to touch the remote control unit.

• Keep the remote control unit out of the reach of infants and pets after using it.

Do not use the supplied power cord with devices other than this projector.

• Using the supplied power cord with devices other than this projector may cause short circuits or overheating, and result in electric shock or fire.

Remove the depleted batteries from the remote control promptly.

• Leaving them in the unit may result in fluid leakage, overheating, or explosion of the batteries.

CAUTION:

■ POWER

When disconnecting the power cord, be sure to hold the power plug and power connector.

If the power cord itself is pulled, the lead will become damaged, and fire, short-circuits or serious electric shocks will result.

When not using the projector for an extended period of time, disconnect the power plug from the wall outlet and remove the batteries from the remote control.

Disconnect the power plug from the wall outlet before carrying out any cleaning and replacing the unit.

Electric shocks can result if this is not done.

Read this first!

CAUTION:

■ ON USE/INSTALLATION

Do not put your weight on this projector.

You could fall or the projector could break, and injury will result.

• Be especially careful not to let young children stand or sit on the projector.

Do not place the projector in extremely hot locations.

Doing so will cause the outer casing or internal components to deteriorate, or result in fire.

• Take particular care in locations exposed to direct sunlight or near stoves.

Always disconnect all cables before moving the projector.

Moving the projector with cables still attached can damage the cables, which will cause fire or electric shocks to occur.

ACCESSORIES

Do not use the old lamp unit.

If used it could cause lamp explosion.

If the lamp has broken, ventilate the room immediately. Do not touch or bring your face close to the broken pieces.

Failure to observe this will cause the user to absorb the gas which was released when the lamp broke and which contains nearly the same amount of mercury as fluorescent lamps, and the broken pieces will cause injury.

- If you believe that you have absorbed the gas or that the gas has got into your eyes or mouth, seek
 medical advice immediately.
- Ask your dealer about replacing the lamp unit and check the inside of the projector.



To remove the battery Remote Control Battery

1. Press the guide and lift the cover.



2. Remove the batteries.



Trademarks

 Company names or product names used in these operating instructions are the trademarks or registered trademarks of their respective holders.

Please note that the operating instructions do not include the ® and TM symbols.

Illustrations in these operating instructions

Note that illustrations of the projector and screens may differ from the ones you actually see.

Page references

In these instructions, references to pages are indicated as: (→ page 00).

Term

• In these instructions, the "Wireless remote control unit" accessory is referred to as the "Remote control".

Auto Setup Function

▶ This function enables [Input search], [Auto Keystone] correction and [Auto PC adjustment] by pressing the <AUTO SETUP> button.

Direct Power Off Function

▶ With the Direct Power Off function, you can disconnect the power cord from the wall outlet or turn off the breaker even during projection.

Useful Functions for Presentations

 The digital zoom function allows you to focus on the crucial information during a presentation.

Quick steps

For details, see the corresponding pages.

Set up your projector.
 (⇒ page 19)



Connect with other devices.
 (⇒page 22)



Connect the power cord.
 (⇒page 23)



4. Power on. (⇒page 25)



Select the input signal.
 (⇒page 28)



6. Adjust the image. (⇒page 28)

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Precautions for Use

Cautions when transporting

- When transporting the projector, hold it securely by its bottom and avoid excessive vibration and impacts.
 Doing so may damage the internal parts and result in malfunctions.
- Do not transport the projector with the adjustable foot extended. Doing so may damage the adjustable foot.

Cautions when installing

- Do not set up the projector outdoors.
- The projector is designed for indoor use only.
- Do not use under the following conditions.
- Places where vibration and impacts occur such as in a car or vehicle: Doing so may damage the internal parts and result in malfunctions.
- Near the exhaust of an air conditioner or near lights (studio lamps, etc.) where temperature changes greatly (Operating environment ⇒page 69): Doing so may shorten the life of the lamp or result in deformation of the outer case and malfunctions.
- Near high-voltage power lines or near motors: Doing so may interfere with the operation of the projector.
- Do not install the projector at elevations of 2700 m (8858 ft) or higher above sea level.

Failure to do so may shorten the life of the internal parts and result in malfunctions.

■ Do not use the projector installed vertically or tilted right or left (→ page 19).

Using the projector at a vertical angle that exceeds 30° may reduce product life or result in malfunction.

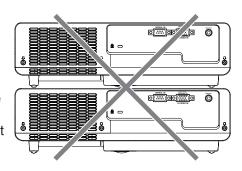
■ Be sure to ask a specialized technician when installing the product to a ceiling.

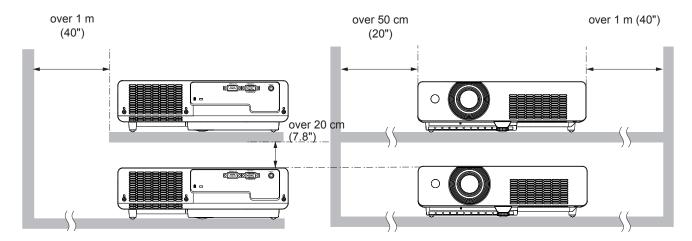
If the product is to be installed hanging from the ceiling, purchase an optional Ceiling Mount Attachment (Optional accessories → page 14).

Please call a specialized technician or contact an Authorized Service Center for installation.

Cautions when setting the projectors

- Do not stack the projectors.
- Do not block the ventilation ports (intake and exhaust) of the projector.
- Avoid heating and cooling air from the air conditioning system directly blow to the ventilation ports (intake and exhaust) of the projector.
- Make sure that there is no object under the projector to prevent from covering the bottom openings.





Do not place the projector in an enclosed space.
 If you need to place the projector in an enclosed space, additional air conditioning and ventilation system must be equipped. When ventilation is insufficient, remaining heat may trigger the protection circuit of the projector.

Security

■ Take safety measures against following incidents.

- Personal information being leaked via this product.
- Unauthorized operation of this product by a malicious third party.
- Interfering or stopping of this product by a malicious third party.

Security instruction (⇒page 50)

- Make your password as difficult to guess as possible.
- Change your password periodically.
- Panasonic or its affiliate company never inquires a password directly to a customer. Do not tell your password
 in case you receive such an inquiry.
- Set a password and restrict the users who can log in.

Disposal

When disposing of the product, ask your local authority or dealer about the correct methods of disposal. The lamp contains mercury. When disposing of the used lamp unit, ask your nearest local authorities or dealer about proper disposal of the unit.

Dispose of used batteries according to the instructions or your local disposal rule or guidelines.

Precautions for Use

Cautions on use

In order to get the picture quality

- Draw curtains or blinds over windows and turn off any lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.
- Depending on where the projector is used, heated air from an exhaust port or warm or cold air from an air conditioner can cause a shimmering effect on screen.
 - Avoid use in locations where exhaust or streams of air from projector, other devices and air conditioners flow between the projector and the screen.
- The lens of projector is affected by the heat from the luminous source. Because of this, the focusing stays unstable right after the power is turned on. Focusing is stabled after projecting image for 30 minutes and longer.

■ Do not touch the surface of the projector lens with your bare hand.

If the surface of the lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen.

LCD Panel

The display unit of this projector comprises three LCD panels. Although an LCD panel is a product of high-precision technology, some of the pixels on the projected image may be missing or constantly lit. Please note that this is not a malfunction.

Displaying a still image for a longer time may result in an after-image on the LCD panels. If this happens, display the all white screen in the test pattern for an hour or more.

Optical components

Operating the projector in an environment with high temperature or heavy exposure to dust or tobacco smoke will reduce the service life of the optical components, such as the LCD panel and polarizing plate, and may necessitate their replacement within less than one year of use. For details, consult your dealer.

Lamp

The luminous source of the projector is a mercury lamp with high internal pressure.

A high pressure mercury lamp has following characteristics.

- The brightness of the lamp will decrease by duration of usage.
- The lamp may burst with sound or shorten life by shock or chipping.
- The life of the lamp varies greatly depending on individual specificities and usage conditions. In particular, continuous use over 6 hours and frequent on/off switching of the power greatly deteriorate the lamp and affect the lamp life.
- In rare cases, the lamp burst shortly after the projection.
- The risk of bursting increases when the lamp is used beyond its replacement cycle. Make sure to replace the lamp unit consistently. ("When to replace the lamp unit" (→ page 57))
- If the lamp bursts, gas contained inside of the lamp is released in a form of smoke.
- It is recommended to store replacement lamps for contingency.
- It is recommended to have authorized engineer or your dealer replace the lamp unit.

Pursuant to at the directive 2004/108/EC, article 9(2)
Panasonic Testing Centre
Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH

Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, F.R. Germany

Accessories

Make sure the following accessories are provided with your projector. Numbers in the brackets () show the number of accessories.

Remote control unit (x1) (6451051684)	Power cord (x1) (6103580203)	CD-ROM (x1) (6103579764)	Batteries (AAA/R03 or AAA/LR03 type) (x2)
Panasonic PROJECTOR			(for remote control unit)
RGB signal cable (x1) (6103580425)	Filter cover (x1) (6103593265)	AC power cord holder (x1) (6451052124)	Lens cap (x1) (6103578101)
String (x1) (6103430249)	PIN Code Label (x1)		
	WARNING LIN CODE PROTECTED		

Attention

- After unpacking the projector, discard the power cord cap and packaging material properly.
- For lost accessories, consult your dealer.
- The part numbers of accessories and separately sold components are subject to change without notice.
- Store small parts in an appropriate manner, and keep them away from young children.

Precautions for Use

Contents of the supplied CD-ROM

The contents of the supplied CD-ROM are as follow.

[●: Instructions/List (PDF), ○: Software]

Operating Instructions – Projector Operations.

○Logo Transfer Software 2.0 (Windows)

- This software allows you to create original images, such as company logos to be displayed when projection starts, and transfer them to the projector.
- This projector can be used only with RS-232C control.
- Operation Manual Logo Transfer Software 2.0

●List of compatible projector models

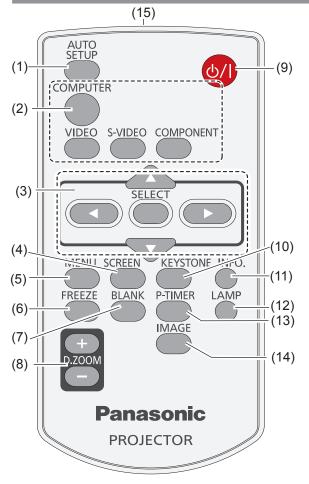
• This is a list of projectors that are compatible with the software marked with the "O" symbols above, and their restrictions.

Optional accessories

Options	Model No.
Ceiling Mount Bracket	ET-PKV100H (for high ceilings), ET-PKV100S (for low ceilings)
Projector Mount Base	ET-PKL100B
Replacement Lamp Unit	ET-LAL100
Replacement Filter Unit	ET-RFL100
S-Video-VGA Conversion Cable	ET-ADSV

About Your Projector

Remote control



(1) <AUTO SETUP> Button

Execute the setting of Auto setup in the setting. menu. (→page 46)

(2) Input Selection Buttons: <COMPUTER >, <VIDEO>, <S-VIDEO>, <COMPONENT>.

These buttons are used to select the input signal. (⇒page 29)

(3) ▲ ▼ ◀► Buttons, <SELECT> Button

Navigate the MENU display.(⇒page 32)

(4) <SCREEN> Button

Select a screen mode. (⇒page 44)

(5) <MENU> Button

Open or close the On-Screen Menu. (⇒page 32)

(6) <FREEZE> Button

Pause the projected image tentatively. (⇒page 30)

(7) <BLANK> Button

Temporarily turn off the image on the screen. (⇒page 30)

(8) <D.ZOOM +/- > Buttons

Zoom in and out the images.

(9) <७/|> Button

Turn the projector on or off. (⇒page 25)

(10) <KEYSTONE> Button

Correct keystone distortion. (⇒page 29)

(11) <INFO.> Button

Operate the information function. (⇒page 30)

(12) <LAMP> Button

Select a lamp mode. (⇒page 30)

(13) <P-TIMER> Button

Operate the [P-timer] function. (→page 30)

(14) <IMAGE> Button

Select the image mode. (⇒page 31)

(15) Remote control signal emitter

Attention

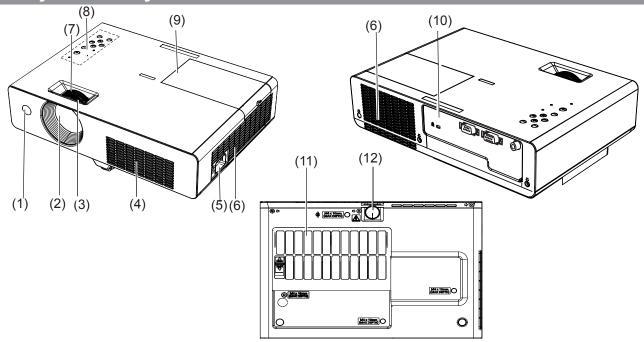
- Do not drop the remote control.
- Avoid contact with liquids.
- Do not attempt to modify or disassemble the remote control.

Note

- The remote control can be used within a distance of about 7 m (23.0 ft) if pointed directly at the remote control signal receiver. The remote control can control at angles of up to ± 30 ° vertically and ± 30 ° horizontally, but the effective control range may be reduced.
- If there are any obstacles between the remote control and the remote control signal receiver, the remote control may not operate correctly.
- You can operate the projector by reflecting the remote control signal on the screen. The operating range may differ due to the loss of light caused by the properties of the screen.
- When the remote control signal receiver is lit with a fluorescent light or other strong light source, the projector may become inoperative. Set the projector as far from the luminous source as possible.

About Your Projector

Projector body



- (1) Remote control signal receiver
- (2) Projection Lens
- (3) Focus Ring

Adjust the focus.

- (4) Air intake port
- (5) AC IN
- (6) Air outlet port
 - Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.
- (7) Zoom Ring

Adjust the zoom.

- (8) Control Panel and Indicators (⇒page 17)
- (9) Lamp cover (⇒page 58)

The lamp unit is located inside.

- **(10) Terminals** (**⇒**page 17)
- (11) Air filter (⇒page 56)
- (12) Adjustable foot

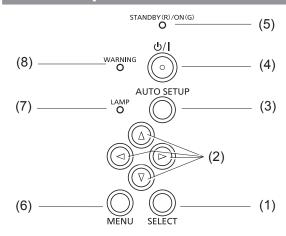
Adjust the projection angle.

WARNING:

- Keep your hands and other objects away from the air exhaust port.
- Keep your hand and face away.
- Do not insert your finger.
- Keep heat-sensitive articles away.

Heated air from the air exhaust port can cause burns or external damage.

Control panel



(1) <SELECT> Button

Execute the selected item.

(2) **▲** ▼ **◄** ▶ Buttons

Navigate the MENU screen.

(3) <AUTO SETUP> Button

Execute the setting of Auto setup in the [setting] menu.

(4) < ७/ | > Button

Turn the projector on/off.

(5) <STANDBY(R)/ON(G)> indicator

Indicate the power status.

(6) <MENU> Button

Display the MENU screen. (⇒page 32)

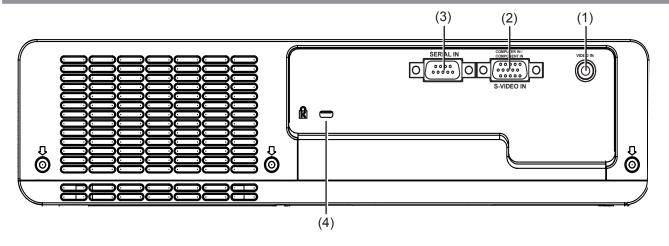
(7) <LAMP> indicator

Light yellow when the projection lamp reaches its end of life.

(8) <WARNING> indicator

Indicate the abnormal conditions of the projector.

Rear terminals



(1) VIDEO IN

Connect to VIDEO input signals.

(2) COMPUTER IN / COMPONENT IN / S-VIDEO IN

Connect to COMPUTER IN / COMPONENT IN / S-VIDEO input signals.

(3) SERIAL IN

Connect to a computer via an RS-232C cable.

(4) Security slot

Attach the commercial shackle lock, manufactured by Kensington, to protect your projector. Compatible with the Kensington MicroSaver Security System.

Using Remote control

Installing and Removing batteries

1) Open the cover



2) Install batteries and close the cover (Insert the – side first.)



 Remove the batteries in the reverse order of installation.

Setting Remote control ID numbers

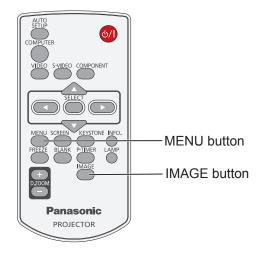
When you use the system with multiple projectors, you can operate all the projectors simultaneously or each projector individually using single remote control, if unique ID number is assigned to each projector. After setting the ID number of the projector, set the same ID number to the remote control. There are 7 different ID codes (ALL, Code 1~Code 6), the initial ID number is [ALL].

Setting the ID number

- 1) While holding down the <MENU> button, press the <IMAGE> button. The number of times you press the <IMAGE> button corresponds to the desired ID code number.
- 2) The number of times to press the <IMAGE> button is as follows: Code 1= Once, Code 2= Twice, Code 3= 3 times, Code 4= 4 times Code 5= 5 times, Code 6= 6 times
- 3) The ID code is changed when the <MENU> button is released.
- 4) The ID code is reset to [ALL] (default) by pressing the <MENU> button and <IMAGE> button at the same time for 5 seconds or more.

Attention

- If the <IMAGE> button is pressed 7 times or more, the ID code cannot be changed (the operation is invalid).
- The status of the ID code is not stored after replacing batteries.

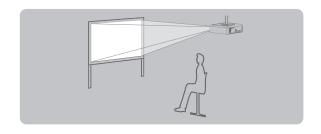


Setting up

Projection method

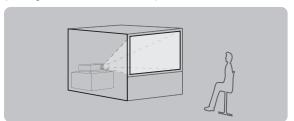
You can use the projector with any of the following 4 projection methods. To set the desired method in the projector.

Mounting on the ceiling and projecting forward



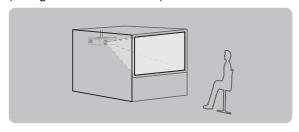
Setting on a desk/floor and projecting from rear

(Using translucent screen)

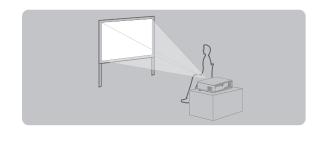


Mounting on the ceiling and projecting from rear

(Using translucent screen)

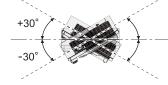


Setting on a desk/floor and projecting forward



Attention

- For optimum viewing quality, install the projector in a location where screen exposure to outside light, light from light fixtures or other light is at a minimum. Also draw the curtains, close blinds and turn off light fixtures.
- Do not use the projector installed vertically or tilted right or left. Use under such conditions could result in equipment damage.
- The projector must be installed so that its inclination to the horizontal plane is ±30° or less.
- Installing the projector at an inclination that exceeds 30° may reduce product life or result in malfunction.



Parts for ceiling mount (Optional)

You can install the projector on the ceiling by using the optional ceiling mount bracket (ET-PKV100H: for high ceiling, ET-PKV100S: for low ceiling), and the optional projector mount base ET-PKL100B.

- Use only the ceiling mount brackets specified for this projector.
- Refer to the installation manual for the ceiling mount bracket when you install the bracket and the projector.

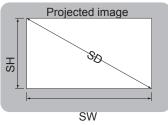
Attention

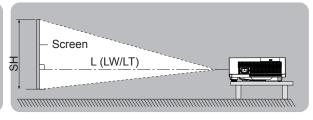
• To ensure projector performance and security, installation of the ceiling mount bracket must be carried by your dealer or a qualified technician.

Setting up

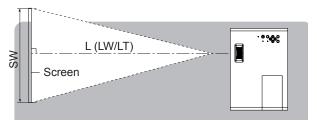
Screen size and throw distance

Place the projector referring to the diagram on the right and the figures of throwing distance. You can adjust the display size.





L (LW/LT) *1	Projection distance (m)
SH	Height of the projection area (m)
SW	Width of the projection area (m)
SD	Diagonal length of the projection area (m)



Attention

Before installing, please read "Precautions for Use" (→ pages 10 to 14).

Projection distance

(All measurements below are approximate and may differ slightly from the actual measurements.)

Projection size	For 4:3 aspect ratio		For 16:9 a	spect ratio
Screen diagonal (SD)	Minimum distance (LW)	Maximum distance (LT)	Minimum distance (LW)	Maximum distance (LT)
0.76 m(30")	1.0 m(3.32')	1.2 m(4.00')	1.1 m(3.62')	1.3 m(4.36')
1.02 m(40")	1.4 m(4.45')	1.6 m(5.35')	1.5 m(4.86')	1.8 m(5.84')
1.27 m(50")	1.7 m(5.58')	2.0m(6.71')	1.9 m(6.09')	2.2 m(7.32')
1.52 m(60")	2.0 m(6.71')	2.5 m(8.07')	2.2 m(7.32')	2.7 m(8.80')
1.78 m(70")	2.4 m(7.84')	2.9 m(9.43')	2.6 m(8.56)	3.1 m(10.28')
2.03 m(80")	2.7 m(8.98')	3.3 m(10.79')	3.0 m(9.79')	3.6 m(11.76')
2.29 m(90")	3.1 m(10.11')	3.7 m(12.14')	3.4 m(11.02')	4.0 m(13.24')
2.54 m(100")	3.4 m(11.24')	4.1 m(13.50')	3.7 m(12.26')	4.5 m(14.72')
3.05 m(120")	4.1 m(13.50')	4.9 m(16.22')	4.5 m(14.72')	5.4 m(17.67')
3.81 m(150")	5.2 m(16.90')	6.2 m(20.29')	5.6 m(18.42')	6.7 m(22.11')
5.08 m(200")	6.9m(22.56')	8.3 m(27.08')	7.5 m(24.59')	9.0m(29.51')
6.35 m(250")	8.6 m(28.21')	10.3 m(33.87')	9.4 m(30.76')	11.0 m(36.08')
7.62 m(300")	10.3 m(33.87')	11.0 m(36.08')	11.3 m(36.92')	11.0 m(36.08')

Any other projection distance can be obtained according to the screen dimensions (m) using the following calculations.

The distance is shown in units of meters. (The calculated distance may contain a certain error.)

If the screen dimensions are written as "SD",

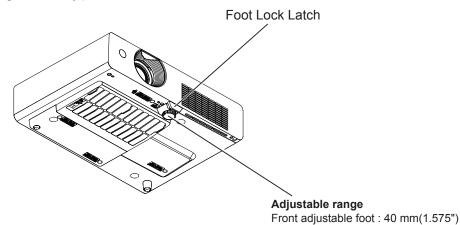
	For 4:3 aspect ratio	For 16:9 aspect ratio
Screen height (SH)	= SD(m) × 0.6	= SD(m) × 0.490
Screen width (SW)	= SD(m) × 0.8	= SD(m) × 0.872
Minimum distance (LW)	= 1.357 × SD(m) - 23.27	= 1.478 × SD(m) - 23.27
Maximum distance (LT)	= 1.629 × SD(m) - 23.67	= 1.775 × SD(m) - 23.67

^{*1:} LW: Minimum distance LT: Maximum distance

Adjusting front adjustable foot

Lift the front of the projector and press the foot lock latch on the projector.

Release the foot lock latch to lock the adjustable foot and rotate the adjustable foot to a proper height and tilt. You can turn the front adjustable foot to extend it. You can turn it in the opposite direction to contract it. (You can adjust the projection angle vertically.)



Attention

- Heated air comes out of the air exhaust port while the lamp is lit. Do not touch the air exhaust port directly when you adjust the front adjustable foot.
- If keystone distortion occurs on the projected image, perform "KEYSTONE" from the "Screen" menu. (♣ page 45)

Note

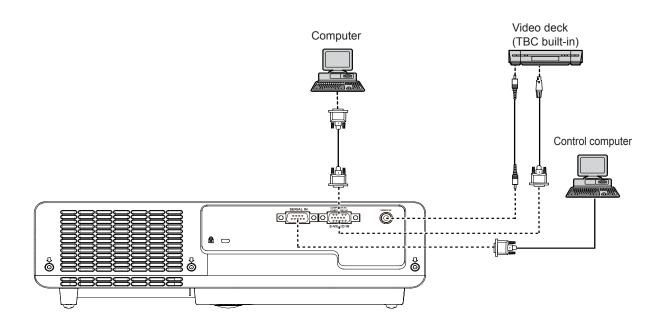
• Screw up the adjustable foot, and an audible click will be heard as the limit.

Connections

Before connecting to the projector

- Read carefully the instruction manual for the device to be connected.
- Turn off the power switch of the devices before connecting cables.
- If any connection cable is not supplied with the device, or if no optional cable is available for connection of the device, prepare a necessary system connection cable to suit the device.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or wafture. In this case, a time base corrector (TBC) must be connected.
- The projector accepts the following signals: VIDEO, S-VIDEO, analogue-RGB (with TTL sync. Level) .
- Some computer models are not compatible with the projector.
- When using long cables to connect with each of equipment to the projector, there is a possibility that the image will not be output correctly unless a compensator is used.
- For details on what video signals the projector supports, see "List of compatible signals". (⇒page 65)

Connecting example



Attention

- When connecting with a video deck, be sure to use the one with a built-in time base corrector (TBC) or use a TBC between the projector and the video deck.
- If nonstandard burst signals are connected, the image may be distorted. If this is the case, connect a TBC between the projector and the video deck.

Note

• For the specifications of the RGB signals that can be applied from the PC, refer to "List of compatible signals". (*page 65)

Clamp

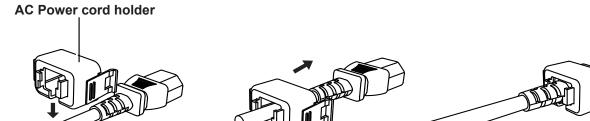
Powering ON/OFF

Connecting the power cord

Be sure to insert the attached power cord securely to its base to prevent it from coming off.

Power cord holder

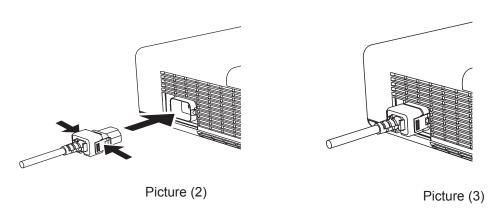
A power cord holder is designed to prevent the AC power cord from coming off the projector. Please insert the power cord into the power cord holder correctly as Picture (1) shown:



Picture (1)

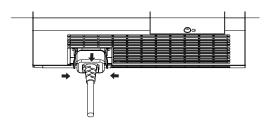
Attaching

Attach the AC power cord with the power cord clamps to the projector as follows: Press the clamps on its sides, and then insert the AC power cord with the power cord clamps securely to the projector as Picture (2) shown. It is correctly attached until you hear the "CLICK" sound. See Picture (3) for correct attachment.



Removal

Remove the AC power cord from the electrical outlet while pressing the clamps on its sides.

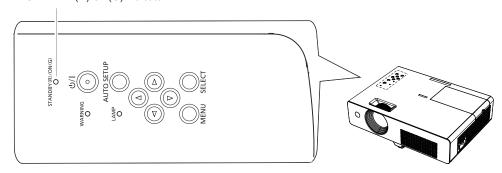


Powering ON/OFF

STANDBY(R)/ON(G) indicator

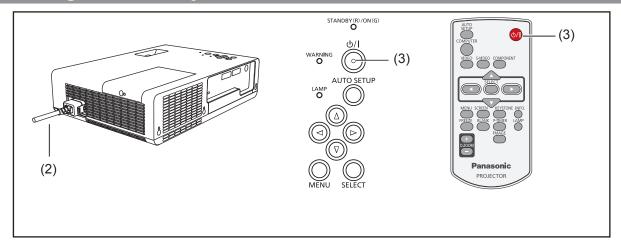
The $\langle STANDBY(R)/ON(G) \rangle$ indicator informs you the status of the power. Confirm the status of the $\langle STANDBY(R)/ON(G) \rangle$ indicator before operating the projector.

STANDBY(R)/ON(G) indicator



Indicator status		Status	
No illumination	n or flashing	The power cord is unplugged.	
1 :4		The power cord is plugged.	
	Lit	The projector is in stand-by mode, after the cooling is completed.	
RED		The projector cannot be turned on until the normal power-off processing for fan cooling is completing and the <standby(r) on(g)="">indicator stops blinking.</standby(r)>	
	Flashing	The temperature inside the projector is abnormally high. And the <warning> indicator also blinks in red.(➡page 54) The projector cannot be turned on until cooling is completing and the <standby(r) on(g)=""> indicator stops blinking.</standby(r)></warning>	
GREEN	Lit	Projecting.	
GREEN	Flashing	The projector is in the Power management mode.	

Turning On the Projector



- Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.
- 2) Connect the projector's AC power cord into an AC outlet. The <STANDBY(R)/ON(G)> indicator lights red. Open the lens cap.
- 3) Press the < U/I> button on the control panel or the remote control. The <STANDBY(R)/ON(G)> indicator lights green and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.
- 4) After the countdown, the input source that was selected the last time and the lamp power status icon appear on the screen.
- 5) If there is no signal input when start on the projector, or the current signal is missed while operating the projector, the Video/Computer selection window will be displayed on the screen, please move the pointer to input source desired by pressing the Press ▲ ▼ and press the <SELECT> button. And then follow the input signal guidance window to correct the signal and connection.

If the projector is locked with a PIN code, PIN code input dialog box will appear. Enter the PIN code as instructed on the next page.

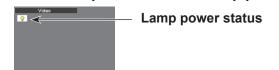
Note

- When the [Logo select] function is set to [Off], the logo will not be shown on the screen (→page 47).
- When [Countdown off] or [Off] is selected in the [Display] function, the preparation display will not be shown on the screen (*) page 47).
- When the [Input searc]h function is set to [On 2], the input signal will be searched automatically (⇒page 46).
- When the [Direct on] function is set to [On], the projector will be turned on automatically by connecting the AC power cord to an AC outlet.

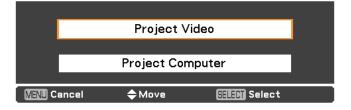


The preparation display will disappear after 30 seconds.

Selected Input Source and Lamp power



Video/Computer selection



Powering ON/OFF

Enter a PIN code

Press ▲ ▼ to enter a number. Press ▶ to fix the number and move the red frame pointer to the next box. The number changes to ★. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

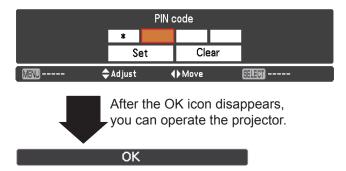
After entering the four-digit number, move the pointer to "Set". Press the <SELECT> button so that you can start to operate the projector.

If you entered an incorrect PIN code, PIN code and the number (****) will turn red for a moment. Enter the correct PIN code all over again.

Note

- If the PIN code number is not entered or wrong PIN code number is entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.
- The "1234" is set as the initial PIN code at the factory.

PIN Code Input Dialog Box

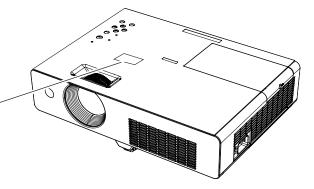


PIN code Protection

While the projector is locked with the PIN code.

Put the label below (supplied) on a prominent place of the projector's body while it is locked with a PIN code.





Turning Off the Projector

- 1) Press the <也/I> button on the control panel or the remote control, and **Power off?** appears on the screen.
- 2) Press the <७/|>
 which is button on the control panel or the remote control again to turn off the projector. The <STANDBY(R)/ON(G)> indicator starts to blink red, and the cooling fans keep running. At this time, you can unplug the AC power cord even if the fans are still running.
- When the projector has cooled down enough, the <STANDBY(R)/ON(G)> indicator stops blinking and you can turn on the projector.

Note

- Do not put the projector in a case before the projector is cooled enough.
- While the <STANDBY(R)/ON(G)> indicator is blinking, the lamp is being cooled down and the projector cannot be turned on. Wait until the <STANDBY(R)/ON(G)> indicator stops blinking to turn on the projector again.
- The projector can be turned on after the <STANDBY(R)/ON(G)> indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, compared with the time the AC power cord is immediately unplugged after the power-off.

Direct Power Off function

You can disconnect the power cord from the wall outlet or turn off the breaker even during projection without pressing $< \circlearrowleft / \mid >$ button.

Note

- When using the Direct power Off function, you can not restart the projector immediately after the power is disconnected. If the external power supply is suddenly cut off, the fans stop immediately. The lamp remains high temperature and needs to be cooled.
- When the lamp has been cooled by the direct power off function, it sometimes takes longer than usual for the lamp to light up again.

Power off?

Power off? disappears after 4 seconds.

Projecting

Check the connections of the peripheral devices and connection of the power cord (→page 23) and switch on the power (→page 25) to start the projector. Select the image and adjust the state of the image.

Selecting the image

Select an input signal.

The image selected with the <COMPUTER >, <VIDEO>, <S-VIDEO>, or <COMPONENT> button is projected (⇒page 29).

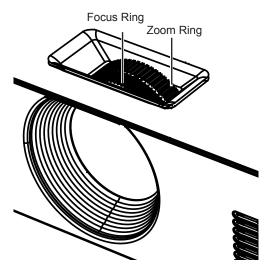
Attention

- Images may not be projected properly depending on the connected device and DVD, video tape, etc. to be played.
 Select a system format that is suitable for the input signal in [Component] or [RGB] in the [Input] menu (➡page 36).
- Check the aspect ratio of the screen and the image and select the optimum aspect ratio under the [Screen] menu (page 44).

How to adjust the state of the image

- 1) Adjust the projection angle.
 - For details, see "Adjusting front adjustable foot".
 (⇒page 21)
- 2) Adjust the zoom and the focus.

Turn [Zoom ring] and [Focus ring] to adjust the image.



Note

- It is recommended that the images are projected continuously for at least 30 minutes before the focus is adjusted.
- If you adjust the focus, you may need to adjust the size of the image by adjusting the zoom ring again.
- If keystone distortion occurs, see "KEYSTONE" (→page 45).

Basic operations by using the remote control



Using the AUTO SETUP function

This function allows you to automatically adjust Input search, Auto Keystone correction and Auto PC adjustment during signal input from a computer.



Button

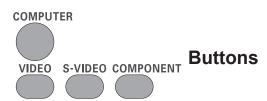
Press the <AUTO SETUP> button on the remote control.

Note

For details, see "Setting" of Main menu. (⇒page 46)

Switching the input signal

You can switch the input signals to project.



Press (<COMPUTER >,<VIDEO>, <S-VIDEO>, or <COMPONENT>) button on the remote control.

COMPUTER	Switches to Computer 1(RGB)/ Computer 1 (Scart) input.
VIDEO	Switches to Video input.

S-VIDEO	Switches to Computer 1(S-video) input.
COMPONENT	Switches to Computer 1 (Component) input.

Using the SCREEN button

This function allows you to select screen mode or change the screen size.

SCREEN

Button

Press the <SCREEN> button on the remote control.

Note

For details, see "Screen" of Main menu. (⇒page 44)

Using the KEYSTONE button

This function allows you to correct keystone distortion.

KEYSTONE



Button

If a projected picture still has keystone distortion after pressing the <AUTO SETUP> button, correct the image manually as follows:

Press the <KEYSTONE> button on the remote control. The Keystone dialog box appears. Press ▲ ▼ to correct keystone distortion. The keystone adjustment can be stored (➡page 45).

Operation	Screen image
Reduce the upper width with press	
Reduce the lower width with press	→ I I ←

Basic operations by using the remote control

Note

- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press the <KEYSTONE> button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled (*page 45).
- The adjustable range is limited depending on the input signal.

Using the INFO. button

This function allows you to display the [information] menu.



Button

Press <INFO.> button on the remote control.

Note

 For details, see "Input Source Information Display" in "Information" under Main menu (→page 53).

Using the FREEZE function

You can freeze the projected image temporarily, regardless of the playing condition of the connected device.



Button

Press the <FREEZE> button on the remote control to freeze the picture on the screen. To cancel the Freeze function, press the <FREEZE> button again or press any other button.

Fig.1 will appear on the screen while the Freeze function is working.

Fig.1



Using the BLANK function



Button

Press the <BLANK> button on the remote control to black out the image. To restore to normal, press the <BLANK> button again or press any button.

 When the Logo is not set, the screen changes each time, you press the <BLANK> button as follows.



 When the projected Logo (the logo can be set according to users' favorite) is transferred from computer to the projector by "Logo Transfer Software" on the supplied CD-ROM and is set as [User] in the Logo selection(⇒page 47), the screen changes each time you press the < BLANK> button as follows.



Using the P-TIMER button

Press the <P-TIMER> button on the remote control to operate the [Count up/Count down] function.



Button

Press <P-TIMER> button on the remote control.

Note

To stop the count time, press the <P-TIMER> button.
 To cancel the [P-timer] function, press and hold the
 <P-TIMER> button. (♣page 48)

Using the LAMP button

This function allows you to select the lamp mode for changing the brightness on the screen.



Button

Basic operations by using the remote control

Press <LAMP> button on the remote control.

Note

 For details, see "Lamp Power" of "Setting" under Main menu. (⇒page 50)

Using the D.ZOOM buttons

This function allows you to enter to the Digital zoom +/- mode.



Buttons

Press <D.ZOOM +/-> buttons on the remote control.

Note

For details, see "Screen" of Main menu. (⇒page 45)

Using the IMAGE button

This function allows you to select a desired image mode of the screen.





Button

Press <IMAGE> button on the remote control to select the desired image mode among [Dynamic], [Standard], [Real], [Cinema], [Blackboard (Green)], [Colorboard], [Image 1], [Image 2], [Image 3] and [Image 4].

Menu Navigation

Navigating through the menu

Operating procedure

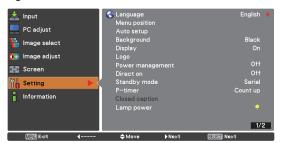
1) Press the <MENU> button.

The Main Menu screen appears.



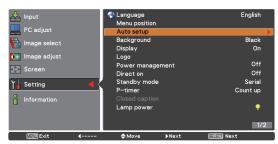
2) Press ▲ ▼ to select the Main Menu item.

Select the desired item from the 7 items: [Input], [PC adjust], [Image select], [Image adjust], [Screen], [Setting], [Information]. The selected item is highlighted with an orange cursor and the submenu of the selected item appears on the right.



3) Press ▶ or the <SELECT> button.

The submenu appears so that you can select the sub-menu item.



- Press ▲ ▼ to select the desired submenu item.
- 5) Press the<SELECT> button or press ► to enter the desired item.
- 6) Press ▲ ▼ ◀► to set or adjust the parameter values.
- Press ◀ to return the previous menu.
 Press the <MENU> button to exit the menu display.

Note

- Some items may not be adjusted or used for certain signal formats input to the projector. The MENU items that cannot be adjusted or used are shown in gray characters, and they cannot be selected.
- Some items can be adjusted even if signals are not input.
- See page 33 and 34 for details on the items of sub-menu.

Main menu

The main menu consists of the following 7 menu items.

When a main menu item is selected, the screen changes to a submenu selection screen.

<u></u>	Input
	PC adjust
	Image select
○ *	Image adjust
$\triangleleft \stackrel{\triangle}{\triangledown} \triangleright$	Screen
T.	Setting
	Information

Sub menu

The sub-menu screen of the selected main menu appears, and you can set and adjust the various items in the submenu.

■ Input [<u>♣</u>]

Sub-menu item	Factory default	Page
Computer 1	RGB	35
Video	-	35

PC adjust [💹]

Sub-menu item	Factory default	Page
AUTO PC adj.	-	37
Fine sync.	-	38
Total dots	-	38
Horizontal	-	38
Vertical	-	38
Current mode	-	39
Clamp	-	39
Display area H	-	39
Display area V	-	39
Reset	-	39
Mode free	-	39
Store	-	39

Note

• This function will be available when the input source come from computer.

■ Image select [🖷]

Sub-menu item	Factory default	Page
Dynamic	-	40
Standard	-	40
Real	-	40
Cinema	-	40
Blackboard(Green)	-	40
Colorboard	Red	40
Image 1-4	-	40

Menu Navigation

Image adjust [🌃]

Sub-menu item	Factory default	Page
Contrast	32	41
Brightness	32	41
Color	32	41
Tint	32	41
Color temp.	Mid	41
Red	32	42
Green	32	42
Blue	32	42
Sharpness	8	42
Gamma	8	42
Noise reduction*1	L1	42
Progressive	L1	43
Reset	-	43
Store		43

*1: When input video signal to the projector, these functions will be available.

Screen []

Sub-menu item	Factory default	Page
Normal	-	44
Full	-	44
Wide (16:9)	-	44
Zoom	-	44
True*1	-	44
Custom	-	44
Custom adj.	-	44
Digital zoom + *1	-	45
Digital zoom - *1	-	45
Keystone	Store	45
Ceiling	Off	45
Rear	Off	45
Reset	-	45

*1: When input computer signal to the projector, these functions will be available.

■ Setting [🕍]

Sub-menu item	Factory default	Page
Language	English	46
Menu position	Center	46
Auto setup	-	46
Background	Blue	47
Display	On	47
Logo	-	47
Power management	Shut down	48
Direct on	Off	48
Standby mode	Eco	48

Sub-menu item	Factory default	Page
P-timer	Count up	48
Closed caption	Off	49
Lamp power	Normal	50
Remote control	ALL	50
Security	-	50
Fan	L2	51
Fan control	Off	51
Video delay control	Off	51
Lamp runtime	-	51
Filter counter	-	52
Warning log	-	52
AMX D.D.	Off	52
Factory default	-	52

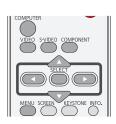
■ Information [🖁]

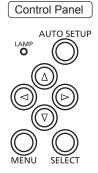
Sub-menu item	Factory default	Page
Input	-	53
System	-	53
H-sync freq.	-	53
V-sync freq.	-	53
Screen	-	53
Language	-	53
Lamp power	-	53
Lamp runtime	-	53
Power management	-	53
Key lock	-	53
PIN code lock	-	53
Remote control	-	53
Serial number	-	53

Input menu

Select [Input] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.

Remote Control





Computer 1: RGB/Component /RGB (Scart) /S-video

- 1) Press ▲ ▼ to select [Computer 1].
- 2) Press ▶ to access the submenu.
- 3) Press ▲ ▼ to select [RGB], [Component], [RGB(Scart)] or [S-video].
- 4) Press the <SELECT> button.
 - When Computer is selected, Component, [RGB(Scart)] or [S-video] can be available.

Computer System Selection

This projector automatically tunes to various types of computers with its Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional settings. (Signal formats provided in this projector are shown on pages 65-67.)

AUTO

When the projector can not recognize the connected signal conforming to the provided PC Systems, Auto is displayed on the System Menu box and the [Auto PC adjustment] function works to display proper images. If the image is not projected properly, a manual adjustment is required.

There is no signal input from the computer. Check the connection between your computer and the projector.

Mode 1

The preset system is manually adjusted in the PC adjust Menu. The adjusted data can be stored in Mode 1-10.

SVGA 1 PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

- * Mode 1 and SVGA 1 are examples.
- 1) Press ▲ ▼ to select [System].
- 2) Press ▶ or the <SELECT> button to access the submenu.
- 3) Press ▲ ▼ to select the desired system.

Video

Press ▲ ▼ to select [Video] and then press the <SELECT> button.

Video System Selection

Video or S-video

Auto

The projector automatically detects an incoming video system, and adjusts itself to optimize its performance. When [Video System] is [PAL-M] or [PAL-N], select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N

If the projector cannot reproduce proper video image, select a specific broadcast signal format from among [PAL], [SECAM], [NTSC], [NTSC 4.43], [PAL-M] and [PAL-N].

Component

Auto

The projector automatically detects an incoming video signal, and adjusts itself to optimize its performance.

COMPONENT VIDEO SIGNAL FORMAT

If the projector cannot reproduce proper video image, select a specific component video signal format among [480i], [576i], [480p], [576p], [720p], [1035i] and [1080i].

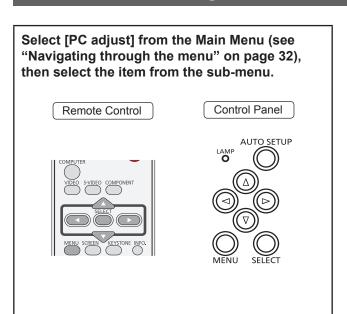
Input menu

- 1) Press ▲ ▼ to select [System].
- 2) Press ▶ or the <SELECT> button to access the submenu.
- 3) Press ▲ ▼ to select the desired system.

Attention

- When the Input Search function is set to [On1] or [On2] in the [Auto setup] function, the input signal will be searched automatically.
- The AV System Menu cannot be selected when selecting [RGB (Scart)].

AUTO PC adjust



AUTO PC adj.

[Auto PC adjustment] function is provided to automatically adjust [Fine sync], [Total dots], [Horizontal] and [Vertical] positions to conform to your computer.

Press ▲ ▼ to select [AUTO PC adj.] and then press the <SELECT> button.

• [Please wait...] appears while the Auto PC adjustment is in process.

To store adjustment parameters

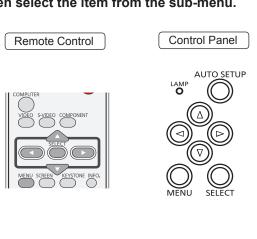
The adjusted parameters from the [Auto PC adjustment] can be stored in the projector. Once the parameters are stored, the setting can be done just by selecting a Mode (1–10) in the PC System Menu (see page 35). See also [Store] on page 39.

Attention

- [Fine sync], [Total dots], [Horizontal] and [Vertical] position of some computers cannot be fully adjusted with the [Auto PC adjustment] function. When the image is not provided properly with this operation, manual adjustments are required (➡pages 38-39).
- The Auto PC adjustment cannot be operated when [480i], [576i], [480p], [576p], [720p], [1035i] or [1080i] is selected in the PC System Menu (→page 35).

Manual PC adjust

Select [PC adjust] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.



Some computers employ special signal formats which may not be tuned by Multi-scan system of this projector. Manual PC adjustment enables you to precisely adjust several parameters to match those signal formats. The projector has 10 independent memory areas to store those parameters manually adjusted. It allows you to recall the setting for a specific computer.

Fine sync

- 1) Press ▲ ▼ to select [Fine sync].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the value.
 - The value can be adjusted from 0 to 31.

Total dots

- 1) Press ▲ ▼ to select [Total dots].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄►** to adjust the value.

Horizontal

- 1) Press ▲ ▼ to select [Horizontal].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the horizontal picture position.
- For horizontal (right and left) adjustment

Operation	Adj	ustment
Press ◀ .	The picture position moves to the right.	O
Press ►.	The picture position moves to the left.	-

Vertical

- 1) Press ▲ ▼ to select [Vertical].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** to adjust the vertical picture position.
- For vertical (up and down) adjustment

Operation	Adjus	stment
Press ▶.	The picture position moves up.	0
Press ◀.	The picture position moves down.	0 0

Current mode

- 1) Press ▲ ▼ to select [Current mode].
- 2) Press ➤ or the <SELECT> button to enter the next submenu to show H-sync freq. and V-sync freq. of the connected computer.

Clamp

- 1) Press ▲ ▼ to select [Clamp].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the clamp level.
 - When the image has dark bars, try this adjustment.

Display area H

- 1) Press ▲ ▼ to select [Display area H].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the horizontal area displayed by this projector.

Display area V

- 1) Press ▲ ▼ to select [Display area V].
- 2) Press the <SELECT> button to display the dialog box.
- Press ◀► to adjust the vertical area displayed by this projector.

Reset

To reset the adjusted data, all adjustments will return to their previous figures.

- 1) Press ▲ ▼ to select [Reset].
- 2) Press the <SELECT> button.
 - A confirmation box appears and then select [Yes].

Mode free

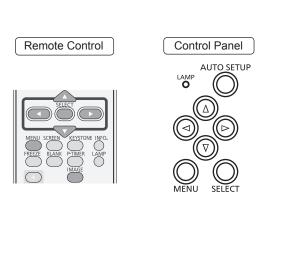
- 1) Press ▲ ▼ to select [Mode free].
- 2) Press ▶ or the <SELECT> button to enter the next submenu.
 - Move the highlight to the mode that you want to clear and then press the <SELECT> button.

Store

- 1) Press ▲ ▼ to select [Store].
- 2) Press ➤ or the <SELECT> button to enter the next submenu.
 - Move the highlight to one of the Modes 1 to 10 in which you want to store, and then press the <SELECT> button.

Image select

Select [Image select] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.



Dynamic

For viewing pictures in a bright room.

Press ▲ ▼ to select [Dynamic] and then press the <SELECT> button.

Standard

Normal picture mode preset on the projector.

Press ▲ ▼ to select [Standard] and then press the <SELECT> button.

Real

Picture mode with improved halftone for graphics.

Press ▲ ▼ to select [Real] and then press the <SELECT> button.

Cinema

Picture mode adjusted with fine tone.

Press ▲ ▼ to select [Cinema] and then press the <SELECT> button.

Blackboard(Green)

For the image projected on a blackboard.

Press ▲ ▼ to select [Blackboard(Green)] and then press the <SELECT> button.

 This mode helps enhance the image projected on a blackboard. This is mainly effective on a green colored board, not truly effective on a black colored board.

Colorboard

For the image projected on a colorboard.

- 1) Press ▲ ▼ to select [Colorboard].
- 2) Press ▶ or the <SELECT> button to display the submenu.
 - At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

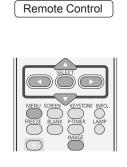
Image 1-4

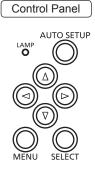
For viewing with the user preset image mode in the Image adjust Menu. This Image memory is provided in each computer, component and video input source.

Press ▲ ▼ to select [Image 1-4] and then press the <SELECT> button.

Image adjust

Select [Image adjust] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.





Contrast

- 1) Press ▲ ▼ to select [Contrast].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄►** to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	increase the contrast	Maximum value 63
Press ◀.	decrease the contrast	Minimum value 0

Brightness

- 1) Press ▲ ▼ to select [Brightness].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	increase the brightness	Maximum value 63
Press ◀.	decrease the brightness	Minimum value 0

Color

- 1) Press ▲ ▼ to select [Color].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	increase the intensity of the color	Maximum value 63
Press ◀.	decrease the intensity of the color	Minimum value 0

Note

 When input video signal to the projector, [Color] will be available.

Tint

- 1) Press ▲ ▼ to select [Tint].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the tint value to get a proper color balance.
 - Adjustments can be made between 0 and 63.

Note

 When you select [NTSC] or [NTSC4.43] in System menu under [Video input signal], [Tint] will be available.

Color temp

- 1) Press ▲ ▼ to select [Color temp.].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- Press ◀► to select the desired Color temp. level.
 - You can select the desired Color temp. from [XLow], [Low], [Mid] or [High].

Note

 [Color temp] level displays [Blackboard] or [Colorboard] when the [Blackboard (Green)] or [Colorboard] is selected in the [Image select] menu.

Image adjust

Red

- 1) Press ▲ ▼ to select [Red].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	deepen red tone	Maximum value 63
Press ◀.	lighten red tone	Minimum value 0

Green

- 1) Press ▲ ▼ to select [Green].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	deepen green tone	Maximum value 63
Press ◀.	lighten green tone	Minimum value 0

Blue

- 1) Press ▲ ▼ to select [Blue].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	deepen blue tone	Maximum value 63
Press ◀.	lighten blue tone	Minimum value 0

Sharpness

- Press ▲ ▼ to select [Sharpness].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to adjust the setting value.

Operation	Adjustment	Adjustment range
Press ▶.	increase the sharpness of the image	Maximum value 15
Press ◀.	decrease the sharpness of the image	Minimum value 0

Gamma

- 1) Press ▲ ▼ to select [Gamma].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- Press ◀► to adjust the gamma value to obtain a better balance of contrast.
 - Adjustments can be made between 0 and 15.

Noise reduction

- 1) Press ▲ ▼ to select [Noise reduction].
- 2) Press the <SELECT> button to display the adjustment dialog box.
- 3) Press **◄** ► to select the desired item

Off	Disabled
L1	Lower reduction
L2	Higher reduction

- Noise interference on the screen can be reduced. Select one of the above options to get smoother images.
- [Noise reduction] cannot be selected when [480p], [576p], [720p], [1035i] or [1080i] is selected.

Note

 When input video signal to the projector, [Noise reduction] will become available.

Progressive

- 1) Press ▲ ▼ to select [Progressive].
- 2) Press the <SELECT> button to display the dialog box.
- 3) Press **◄** ► to select the desired item.
 - An interlaced video signal can be displayed in progressive mode. Select one of the following options.
 - Progressive cannot be selected when [480p], [576p], [720p], [1035i] or [1080i] is selected.

Off	Disabled
L1	For an active picture
L2	For a still picture
Film	For watching a film

Note

 When input video signal to the projector, [Progressive] will become available.

Reset

To reset the adjusted data, all adjustments will return to their previous figures.

- 1) Press ▲ ▼ to select [Reset].
- 2) Press the <SELECT> button.
 - A confirmation box appears and then select [Yes].

Store

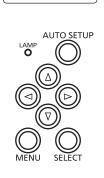
- 1) Press ▲ ▼ to select [Store].
- 2) Press ▶ or the <SELECT> button.
- 3) Press ▲ ▼ to select one from Image 1 to 4 and press the SELECT button.
 - A confirmation box appears and then select [Yes].

Screen

Select [Screen] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.

Remote Control Control Panel





Normal

Provide the image to fit the screen size while maintaining the aspect ratio of the input signal.

Press ▲ ▼ to select [Normal] and then press the <SELECT> button.

Full

Provide the full screen image.

Press ▲ ▼ to select [Full] and then press the <SELECT> button.

Wide(16:9)

Provide the image at the 16:9 wide screen ratio.

Press ▲ ▼ to select [Wide(16:9)] and then press the <SELECT> button.

Zoom

Scale the image proportionally to fit the entire screen. Either side of image may go over the screen.

Press ▲ ▼ to select [Zoom] and then press the <SELECT> button.

True

Provide the image in its original size. When the original image size is larger or smaller than the screen size (1024 x 768), the projector enters to the panning mode automatically.

- 1) Press ▲ ▼ to select [True] and then press the <SELECT> button.
- 2) Press ▲ ▼ ◀ ▶ to pan the image.
 - When adjusted, the arrows will turn red. When reached to the correction limits, the arrows will disappear.

Note

- When input computer signal to the projector, [True] will be available.
- True is disabled and cannot be displayed when [480i], [576i], [480p], [576p], [720p], [1035i] or [1080i] is selected in the PC System Menu.
- When [True] is selected in the [Screen] menu, [Digital zoom +/-] can not be selected.

Custom

Provide the last stored aspect screen image.

Press ▲ ▼ to select [Custom] and press the <SELECT> button.

Custom adj.

Adjust the screen scale and position manually with this function.

- 1) Press ▲ ▼ to select [Custom adj.].
- 2) Press ▶ or the <SELECT> button to enter the next submenu.
- 3) Press ▲ ▼ to choose the item you want to adjust.
 - You can choose one from the items as below:

Scale H/V	Adjust the [Horizontal/Vertical] screen scale.
H&V	When set to [On], the aspect ratio is fixed.
Position H/V	Adjust the [Horizontal/Vertical] screen position.
Common	Save the adjusted scale or position to all the inputs.
Reset	Reset the all adjusted values.

Digital zoom +

Zoom in the images.

- 1) Press ▲ ▼ to select [Digital zoom +] and then press the <SELECT> button.
 - The On-Screen Menu disappears and [D. zoom +] appears.
- 2) Press the <SELECT> button to zoom in the image size and press ▲ ▼ ◀►to move the image to the top/ bottom/ left/ right of the screen.
 - The Panning function can work only when the image is larger than the screen size. A projected image can be also zoomed in by pressing the <D.ZOOM +> or the <SELECT> button.

- 1) Press ▲ ▼ to select [Keystone].
- 2) Press ▶ or the <SELECT> button.
- 3) Press ▲ ▼ to choose the item you want to adjust.

Keystone	To correct keystone distortion
Store	To store or reset the keystone correction

The following items are the submenu of [Store].

Keep the keystone correction even when the AC power cord is unplugged.
Release the keystone correction when turn off the projector.

Digital zoom -

Zoom out the images.

- 1) Press ▲ ▼ to select [Digital zoom -] and then press the <SELECT> button.
 - The On-Screen Menu disappears and [D. zoom -]appears.
- 2) Press the <SELECT> button to zoom out the image size.
 - The projected image can be also zoomed out by pressing the <D.ZOOM -> or the <SELECT> button.

To exit the Digital zoom +/- mode, press any button except the <D.ZOOM +/->, <SELECT> and $\blacktriangle \lor \blacktriangleleft \blacktriangleright$ buttons.

To return to the previous screen size, select a screen size from the Screen Size Adjustment Menu or select an input source from the Input Source Selection Menu (₱page 35) again, or adjust the screen size with the <D.ZOOM +/→> buttons.

Note

- When input computer signal to the projector, this function will be available.
- [Digital zoom +/-] cannot be selected when [True] is selected in the [Screen] menu.
- [Digital zoom -] cannot be selected when [Custom] is selected in the [Screen] menu.
- [Digital zoom +/–] are disabled and cannot be displayed when [480i], [576i], [480p], [576p], [720p], [1035i] or [1080i] is selected in the PC System Menu (♣page 35).

Keystone

This function is used to adjust keystone distortion of the projected image.

Ceiling

This function is used to project the image from a ceiling-mounted projector.

- 1) Press ▲ ▼ to select [Ceiling] and then press the <SELECT> button.
- 2) Press ▲ ▼ to change the image.
 - When this function is set to [On], the picture will be top/bottom and left/right reversed.

Rear

This function is used to project the image from rear of the screen.

- 1) Press ▲ ▼ to select [Rear] and then press the <SELECT> button.
- 2) Press ▲ ▼ to change the image.
 - When this function is set to [On], the picture will be left/right reversed.

Reset

To reset the adjusted data, all adjustments will return to their previous figures.

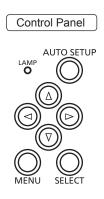
Press ▲ ▼ to select [Reset] and then press the <SELECT> button

 A confirmation box appears and then select [Yes].

Setting

Select [Setting] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.





Language

- 1) Press ▲ ▼ to select [Language].
- 2) Press ▶ or the <SELECT> button.
- 3) Press ▲ ▼ to select the desired language.





 The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Czech, Russian, Turkish, Arabic, Kazak, Vietnamese, Chinese, Korean, Japanese and Thai.

Menu position

This function is used to change the position of the On-Screen Menu.

- 1) Press ▲ ▼ to select [Menu position].
- 2) Press the <SELECT> button to change the position.
 - The Menu position changes each time you press <SELECT> button as follows:

the center \rightarrow the bottom left \rightarrow the bottom right \rightarrow the top left \rightarrow the top right \rightarrow the center.....

Auto setup

- 1) Press ▲ ▼ to select [Auto setup].
- 2) Press ▶ or the <SELECT> button.
- 3) Press ▲ ▼ to select these functions as follows:

Input search

This function detects the input signal automatically. When a signal is found, the search will stop.

Off	Input search will not work
On1	Input search works*1
On2	Input search works*2

- *1: •When pressing the <AUTO SETUP> button on the remote control or the control panel.
- *2: •When turning on the projector by pressing the <也/|> button on the remote control or the control panel
 - •When pressing the <AUTO SETUP> button on the remote control or control panel.
 - When the current input signal is cut off.*
 - * If the [Blank] or [Freeze] function is active, cancel it to activate the Input search. It is also unavailable when On-Screen menu is displayed.

Auto PC adj.

On	Enables Auto PC adjustment *1
Off	Disables Auto PC adjustment

*1: When pressing the <AUTO SETUP> button on the remote control or the control panel.

Auto keystone

Auto	Always works and corrects keystone distortion according to the projector's tilt.
Manual	Works only when pressing the <auto setup=""> button on the remote control or the control panel.</auto>
Off	Disables Auto Keystone.

Note

- [Input search], [Auto PC adj.] and [Auto Keystone] cannot be set [Off] at the same time.
- The [Auto Keystone] function cannot work when the [Ceiling feature] is set [On] in the [Screen] menu.

- *1: Use this function when you want to project images after the lamp becomes bright enough. The factory default setting is in this option.
- *2: Use this function when you want to project the image as early as possible even when the lamp is not bright enough.
- *3: Hide the On-Screen Displays except;
 - On-Screen Menu.
 - [Power off?]
 - [P-timer] display.
 - No signal for [Power management].
 - [Please wait ...]
 - Arrows for the [True] function in the [Screen] Menu.

Background

Select the background screen for when no input signal is detected.

- 1) Press ▲ ▼ to select [Background].
- 2) Press the <SELECT> button.
- 3) Press ▲ ▼ to switch between each option as below.

Blue	Blue colored background.
User	The logo transferred by "Logo Transfer Software *1" is projected.
Black	Black colored background.

*1: "Logo Transfer Software" is included on the supplied CD-ROM.

Display

This function decides whether to display On-Screen Displays.

- 1) Press ▲ ▼ to select [Display].
- 2) Press the <SELECT> button.
- 3) Press ▲ ▼ to switch between each option as below.

On	Show all the On-Screen displays *1
Countdown off	Show the input image instead of the countdown when turning on the projector *2
Off	Hide the On-Screen Displays *3

Logo

This function allows you to customize the screen logo with [Logo select], [Logo PIN code lock] and [Logo PIN code] change functions.

- 1) Press ▲ ▼ to select [Logo].
- 2) Press ▶ or the <SELECT> button.
- 3) Press ▲ ▼ to choose the desired item.

Logo select

This function decides on the starting-up display from among following options.

Off	Show the countdown display only.
Default	Show the factory-set logo.
User	The logo transferred by "Logo
	Transfer Software *1 " is projected.

*1: "Logo Transfer Software" is included on the supplied CD-ROM.

■ Logo PIN code lock

This function prevents an unauthorized person from changing the screen logo.

	The screen logo can be changed freely from the [Logo] Menu.
ON	The screen logo cannot be changed without a [Logo PIN code].

Note

 If you want to change the [Logo PIN code lock] setting, press the <SELECT> button and the [Logo PIN code] dialog box appears. Enter a [Logo PIN code] by following the steps below. The initial [Logo PIN code] is set to "4321" at the factory.

Setting

Logo PIN code change

Logo PIN code can be changed to your desired four-digit number.

- Press ▲ ▼ to select [Logo PIN code change].
- 2) Press the <SELECT> button.
 - Current logo PIN code dialog box appears.
- 3) Press ▲ ▼ to enter the current code.
 - The New Logo PIN code input dialog box appears. Set a new Logo PIN code, a confirmation box appears, choose [Yes] to set the new [Logo PIN code].

Attention

 Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

<u>Power management</u>

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not operated for a certain period.

- Press ▲ ▼ to select [Power management].
- 2) Press ▶ or the <SELECT> button to access the submenu.

Mode

 Press ▲ ▼ and then press the <SELECT> button to select one mode among the items as below.

Ready	When the lamp has been fully cooled down, the <standby(r) on(g)=""> indicator changes to green blinking. In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the control panel or remote control is pressed</standby(r)>
Shut down	When the lamp has been fully cooled down, the power will be turned off.
Off	[Power management] function is off.

Timer

- 1) Press ▲ ▼ to select [Timer] and then press the <SELECT> button.
- 2) Press ▲ ▼ to set the Timer(1~30min).

Direct on

- 1) Press ▲ ▼ to select [Direct on] and then press the <SELECT> button.
- Press ▲ ▼ to switch between [On] and [Off].
 - When this function is set to [On], the projector will be automatically turned on just by connecting the AC power cord to a wall outlet.
 - Be sure to turn off the projector properly. If the projector is turned off in the incorrect sequence, the [Direct On] function does not work properly.

Standby mode

This function can set the electric power when the projector is standing by.

- Press ▲ ▼ to select [Standby mode] and then press the <SELECT> button.
- Press ▲ ▼ to switch between the items as below.

Eco	Restricts some functions in standby mode to reduce power consumption.
	Does not restrict functionality even in standby mode.

Note

 When [Standby mode] is set to [Eco] and the projector is in standby mode, it is only possible to turn on the projector while using the RS-232C protocol command.

P-timer

This function allows you to change the setting of the [P-timer] and execute it.

- 1) Press ▲ ▼ to select [P-timer].
- 2) Press ► or <SELECT> button to access the submenu.

Mode

1) Press ▲ ▼ button to select one mode among the items as below.

Count up	The [P-timer] display 000:00 appears on the screen and the count up starts (000:00-180:00)
Count down	The time set in the [Time] setting appears on the screen and the countdown starts.

Timer

- 1) Press ▲ ▼ to select [Timer] and then press the <SELECT> button.
- 2) Press ▲ ▼ to set the [Timer](1-180 Min).
 - Timer is available in [Count down] only. Factory default value is 10 Min.

Execute

 Press ▲ ▼ to select one among the items as below and then press the <SELECT> button.

Start	It executes the [count up] or [count down] function.*1	
Reset	Reset the P-timer values.*2	
Exit	To exit the P-timer operation.	

- *1: Press the <SELECT> button at Start and the indication changes into [Stop]. To stop Count up or Count down, press the <SELECT> button at [Stop] on the [screen] menu, then the indication changes into [Restart]. Press the <SELECT> button at Restart to resume [Count up] or [Count down].
- *2: Press the <SELECT> button at [Reset] to return to the following value:

Count up	"000:00"
Count down	Timer that you set

Attention

- To stop the [P-timer] function, press the <P-TIMER> button.
- To cancel the [P-timer], press and hold the <P-TIMER> button for a few seconds.

Closed caption

[Only for NTSC, 480i input]

- 1) Press ▲ ▼ to select [Closed caption].
- 2) Press ▶ or the <SELECT> button to enter the submenu.

Closed caption

- Press ▲ ▼ to select [Closed caption] and then press the <SELECT> button.
- 2) Press ▲ ▼ to select [Off], [CC1], [CC2], [CC3] or [CC4].

■ Color

- 1) Press ▲ ▼ to select [Color] and then press the <SELECT> button.
- 2) Press ▲ ▼ to select color or white.

Attention

- The closed caption is mainly used in the north America.
 This function shows the text information contained in the image signal. Captions may not be displayed on some devices or software.
- You can select [Closed caption] when [NTSC] or [480i] signals are input.
- Part of characters may not displayed when high compensation valued are set in [Keystone].
- Closed captions are not displayed while the menu screen appears.

Setting

Lamp power

This function allows you to change brightness of the screen.

- 1) Press ▲ ▼ to select [Lamp power] and then press the <SELECT> button.
- 2) Press ▲ ▼ to select one among the modes as below.
 - You can also press the <LAMP> button to display [Lamp power].

🁸 High	Brighter than the Normal mode.	
	Normal brightness.	
P Eco	Lower brightness reduces the lamp power consumption and extends the lamp life.	

Remote control

This switching function prevents remote control interference when operating several projectors or video equipment at the same time.

- 1) Press ▲ ▼ to select [Remote control].
- 2) Press ▶ or the <SELECT> button.
- Press ▲ ▼ to select one among the seven codes.
 - This projector provides 7 different remote control codes: [ALL], [Code 1]~[Code 6].

Attention

- When operating the projector under [All] code, you can operate several projectors at the same time. If you want to operate the projector independently, you must switch to other code.
- When different codes are set on the projector and on the remote control, any operation cannot be made. In that case, switch the code on the remote control to fit the code on the projector.
- If the batteries are removed from the remote control for a long period of time, the remote control code will be reset.

Security

This function allows you to use the [Key lock] and [PIN code lock] function to set the security for the projector operation.

- 1) Press ▲ ▼ to select [Security].
- 2) Press ▶ or the <SELECT> button to access the submenu.

Key lock

This function locks the control panel and remote control buttons to prevent operation by unauthorized persons.

 Press ▲ ▼ to select the desired items as below.

60/	Unlocked.	
()	Lock the operation of the control panel. To unlock, use the remote control.	
	Lock the operation of the remote control. To unlock, use the control panel.	

■ PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

 Press ▲ ▼ to select the desired items as below.

Off	Unlocked.		
On1	Enter the PIN code every time turning on the projector.		
On2	Enter the [PIN code] to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.		

Attention

 Whenever you change the PIN code lock setting or the [PIN code] (the four-digit number), you are required to enter the [PIN code]. The "1234" is set as the initial PIN code at the factory.

■ PIN code change

The [PIN code] can be changed to your desired four-digit number.

- 1) Press ▲ ▼ to select [PIN code change] and then Press <SELECT> button.
 - [Current Pin code] dialog box appears.
- 2) Press ▲ ▼ to enter the current code. Press ► button to fix the number and move the red frame pointer to the next box.
 - The [New PIN code] input dialog box appears.

3) Repeat these steps to set a new [PIN code].

Fan

- 1) Press ▲ ▼ to select [Fan] and then Press <SELECT> button.
- 2) Press ▲ ▼ to select one option.
 - This function provides the following options in the cooling fans' operation when the projector is turned off.

L1	Normal operation		
L2	Slower and lower-sound than the normal operation (L1), but it takes more time to cool the projector down.		

Fan control

- 1) Press ▲ ▼ to select [Fan control] and then Press <SELECT> button.
- 2) Press ▲ ▼ to select one among options as below.
 - Choose the running speed of cooling fans from the following options according to the ground elevation under which you use the projector.

Off	Normal speed.*1	
On1	Faster than [Off] mode.*2	
On2	Faster than [On 1]mode.*3	

- *1 : Set this function to [Off] when using the projector in non-high altitude environment.
- *2: Select this mode when using the projector in high altitudes (about 1,200 meters or more above the sea level) where the fans have less cooling effect.
- *3: Select this mode when using the projector in higher altitudes (than above where the fans have lesser cooling effect).

Note

- Failure to set the running speed of cooling fans properly may affect the projector life.
- The fan noise becomes louder in [On 1] and [On 2].

Video delay control

This function allows you to make a digital processing of a projected image faster.

- Press ▲ ▼ to select [Video delay control] and then Press the <SELECT> button.
- 2) Press ▲ ▼ to select one item between [On]and [Off].

Note

 [Noise reduction] and [Progressive] cannot be selected when [Video delay control] function is set to [On].

Lamp runtime

This function is used to display the cumulative lamp operating time and reset the lamp runtime.

- 1) Press ▲ ▼ to select [Lamp runtime] and then press the <SELECT> button.
- 2) Press ▶or the <SELECT> button to access the submenu items.

Lamp runtime

Show the total accumulated lamp run time.

■ Lamp runtime reset

After replacing the lamp unit, be sure to reset the timer.

- Press ▲ ▼ to select [Lamp runtime reset].
- 2) Press the <SELECT> button.
 - [Lamp runtime Reset?] appears. Select [Yes] to continue. Another confirmation dialog box appears, select [Yes] to reset the Lamp runtime.

Attention

• When the lamp run time is elapsed the estimated duration, [Lamp runtime] will be displayed in red and the Lamp replacement icon (⇒page 57) will appear on the screen, indicating that the end of lamp life is reached. When replacing the lamp unit, reset the lamp runtime.

Setting

Filter counter

This function is used to set a frequency for the filter replacement.

- 1) Press ▲ ▼ to select [Filter counter].
- 2) Press ▶ or the <SELECT> button to access the submenu items.

Filter counter

Show the total accumulated time of the filter use timer setting.

■ Timer

To set a timer. When the projector reaches the selected time the filter warning icon appears on the screen.

- 1) Press ▲ ▼ to select [Timer] and then press the <SELECT> button.
- 2) Press ▲ ▼ to set the Timer.
 - Select from [Off/1000H/2000H/3000H/4000H] depending on the use environment.

Filter counter reset

After replacing the filter, be sure to reset the timer.

- Press ▲ ▼ to select [Filter counter reset].
- 2) Press the <SELECT> button.
 - [Filter counter Reset?] appears. Select Yes to continue. Another confirmation dialog box appears, select [Yes] to reset the [Filter counter].

Warning log

This function records anomalous operations while the projector is in operation and use it when diagnosing faults.

- 1) Press ▲ ▼ to select [Warning log].
- Press ➤ or the <SELECT> button to display the latest warning message.
 - Up to 10 warning logs are displayed with the latest warning message at the top of the list, followed by previous warning messages in chronological order.

Note

 When the [Factory default] function is executed, all the warning log records will be deleted.

AMX D.D.

This function allows the projector to be detected by AMX Device Discovery. For more details, visit http://www.amx.com/.

- 1) Press ▲ ▼ to select [AMX D.D.].
- Press <SELECT> button to select [On] or [Off] to allow the projector to be detected by AMX Device Discovery.

Factory default

This function returns all setting values except for the [User logo], [PIN code lock], [Logo PIN code lock], [Lamp runtime] and [Filter counter] to the factory default settings.

- Press ▲ ▼ to select [Factory default].
- 2) Press the <SELECT> button.
 - [Return to Factory default?] appears. Select [Yes] to continue. Another confirmation dialog box appears, select Yes to return to [Factory default].

Information

Select [Information] from the Main Menu (see "Navigating through the menu" on page 32), then select the item from the sub-menu.

Remote Control

Control Panel

AUTO SETUP

O

MENU SCREEN BLANK PUMBER LAMP

MENU SELECT

Input Source Information Display

The [Information] Menu is used for checking the status of the image signal being projected and the operation of the projector.

You can also Press the <INFO.> button on the remote control to display the [Information] menu.

Input

The selected input source is displayed.

System

The selected system is displayed.

H-sync freq.

The selected [H-sync freq.] is displayed. The horizontal frequency of the input signal is displayed in KHz, or - - - KHz when no signal.

■ V-sync freq.

The selected [V-sync freq.] is displayed. The vertical frequency of the input signal is displayed in Hz, or - - - Hz when no signal. Numbers of Hz doubles when during Interlace.

Screen

The selected Screen size is displayed.

Language

The selected language is displayed.

Lamp power

The selected lamp mode is displayed.

Lamp runtime

The cumulative lamp operating time is displayed.

■ Power management

[Off], [Ready] or [Shut down], and [Timer] are displayed.

Key lock

The selected Key lock icon is displayed.

PIN code lock

[Off], [On 1] or [On 2] is displayed.

Remote control

The selected remote control code is displayed.

Serial number

The serial number of the projector is displayed. The serial number is used to service the projector.

LAMP and WARNING Indicators

Managing the indicated problems

If a problem should occur inside the projector, the <STANDBY(R)/ON(G)>, <LAMP> and/or <WARNING> indicators will inform you. Manage the indicated problems as follow.

CAUTION

- Before you take a remedial measure, follow the procedure of switching the power off indicated in "Turning off the projector".
 (page 27)
- If multiple indicators light or blink, verify the status of the projector by looking at each indicator.

Note

• Confirm the status of the power indicated on the <STANDBY(R)/ON(G)> indicator. (▶page 24)

■ LAMP indicator

Indicator	Lights in yellow	
Status	The projection lamp reaches its end of life.	
Check	Is there a Lamp replacement icon appears on the screen?	
Remedy	Replace the lamp unit. (▶page 58)	

Note

• Contact your dealer for repair services when <LAMP> indicator persists to light after taking these measurements.

■ WARNING indicator

Indicator	Lights in red.	Blinks in red.	
Status	The projector detects an abnormal condition and cannot be turned on.	The temperature inside the projector is abnormally high. The projector cannot be turned on. And the <standby(r) on(g)=""> indicator also blinks in red.</standby(r)>	
Check	Unplug the AC power cord and plug it again to turn on the projector.	 Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked. Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent? Is the filter clean? 	
Remedy	If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup.	 Provide good installing condition to your projector. Move the installation of the projector away from the duct or vent. Replace filter. 	

Note

- If <WARNING> indicator persists to light or blink after taking these measurements, please contact your dealer for repair services. Do not leave the projector on. It may cause an electric shock or a fire hazard.
- The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn
 on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center
 for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

Replacement

Before replacing the unit

- When you perform maintenance or replacement of the parts, make sure to turn off the power and disconnect the power plug from the wall outlet. (→pages 23, 27)
- Be sure to observe the procedure "Turing off the projector" (→ page 27) when performing power supply operation.

Maintenance

Outer Case

Wipe off dirt and dust using a soft dry cloth.

- If the dirt is persistent, soak the cloth with water and wring it thoroughly before wiping. Dry off the projector with a dry cloth.
- Do not use benzene, thinner, or rubbing alcohol, other solvents, household cleaners, or chemical treated dusters. Using them may cause deterioration of the outer case.

Front glass surface of the lens

Wipe off the dirt and dust off the front surface of the lens with soft clean cloth.

- Do not use a cloth that has an abrasive surface or a cloth that is moist, oily, or covered with dust.
- Do not use excessive force when wiping the lens as it is fragile.

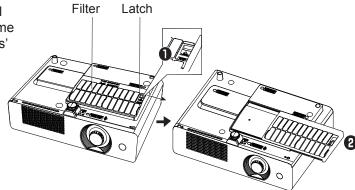
Attention

The lens is made of glass. Impacts or excessive force when wiping may scratch its surface.
 Please handle with care.

Replacing the unit

Air filter unit

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon appears on the screen, replace the filter immediately.



Replacement of the air filter unit

1) Remove the air filter unit.

 Turn over the projector. Place the latch in the OPEN position and pull out the filter(bottom) in the arrow direction.

2) Replace the air filter unit.

 Put new filter back into the position. Make sure that the filter is fully inserted to the projector, and place back the latch in the LOCK position.

Replacement

■ Resetting the Filter Counter

Be sure to reset the [Filter counter] after replacing the filter. (→page 52 " Filter counter reset")

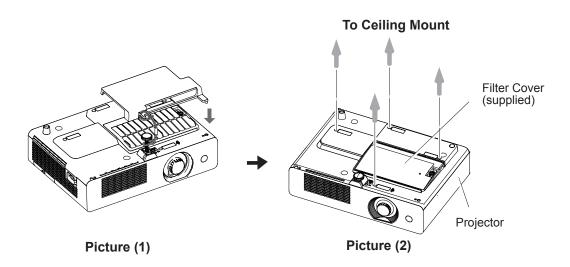
Attention

- Turn off the power before you replace the air filter unit.
- When attaching the air filter unit, make sure that the projector is stable, and work in an environment that is safe, even in the event of the air filter unit dropping.
- Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading
 picture quality.
- Do not put anything into the air vents. Doing so may result in malfunction of the projector.
- Do not wash the filter with water or any other liquid matter. Otherwise the filter may be damaged.

Attaching the Filter Cover to the Projector

The supplied filter cover is designed for preventing dust accumulation on the filter when mounting the projector on the ceiling.

- 1) Turn over the projector.
- 2) Press the adjustable foot lock latch and pull out the adjustable foot, and then attach the filter cover (supplied) to the projector (Push the cover in the arrow direction as the Picture (1) shown). And tie the string around the adjustable foot as Picture (1) shown.
- 3) Press the adjustable foot lock latch and pull in the adjustable foot.
- 4) Attach the projector to the ceiling mount in accordance with the instruction manuals which come with the ceiling mount as Picture (2) shown.



Attention

• If the Projector Mount Base ET-PKL100B is applied, the supplied filter cover is unnecessary.

Lamp unit

The lamp unit is a consumable component. You can check the total usage time using Lamp runtime in the [Information] menu on page 53.

It is recommended to ask an authorized engineer to replace the lamp unit. Contact your dealer. Consult your dealer to purchase a replacement lamp unit (ET-LAL100).

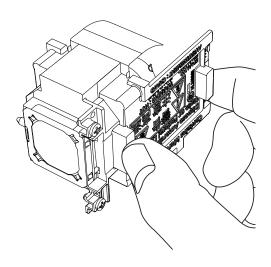
CAUTION:

■ Do not replace the lamp unit when it is hot. (Wait at least 45 minutes after use.)

The inside of the cover can become very hot, take care to avoid burn injuries.

Notes on the replacement of the lamp unit

- The luminous source of the lamp is made of glass and may burst if you hit it against a hard surface or drop it.
 Please handle with care.
- A Phillips screwdriver is required for replacement of the lamp unit
- When replacing the lamp unit, be sure to hold it by the handle.
- When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken.
- If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.
- The lamp contains mercury. Consult your local municipality or your dealer about correct disposal of used lamp units.



Attention

- Do not use other than designated lamp units.
- The part numbers of accessories and separately sold components are subject to change without notice.

■ When to replace the lamp unit

The lamp unit is a consumable component. Brightness decreases according to duration of usage, so periodical replacement of the lamp unit is necessary.

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and <LAMP> indicator lights yellow. Replace the lamp with a new one promptly.

Lamp runtime	On screen Lamp replacement icon	LAMP indicator	
Over 3000 hours*	The message is displayed for 10 seconds. If you press any button within the 10 seconds, the message disappears.	Lights in yellow (even in stand-by mode).	
Over 3200 hours*	If the power is turned on without replacing the lamp, the power automatically turns off after approximately ten minutes to prevent the malfunction of the projector.		

^{* 3200} hours of use is a rough guideline, but is not a guarantee. The lamp runtime differs depending on the setting of "Lamp power" menu.

Note

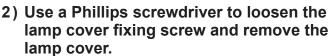
The Lamp replacement icon will not appear when the [Display] function is set to [Off] (⇒page 47), or during [Freeze] (⇒page 30), or [Blank] (⇒page 30).

Replacement

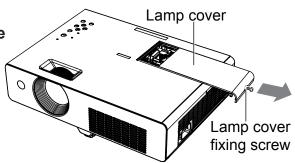
■ Replacing the Lamp unit

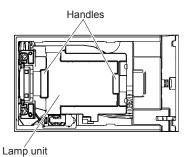
CAUTION:

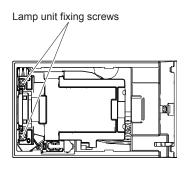
- When the projector is mounted on a ceiling, do not work with your face close to the projector.
- Attach the lamp unit and the lamp cover securely.
- When you experience difficulty in installing the lamp, remove it and try again. If you use force to install the lamp, the connector may be damaged.
- Turn off the Power by following the procedure in "Turning off the projector" (⇒page 27). Unplug the AC power cord. Wait at least 45 minutes and make sure the lamp unit and surroundings are cool.



- Remove the lamp cover by pulling it slowly toward the direction of the arrow.
- 3) Use a Phillips screwdriver to loosen the two lamp unit fixing screws until the screws turn freely. Hold the used lamp unit by its handles, and pull it gently from the projector.
- 4) Insert the new lamp unit in correct direction. Tighten the two lamp unit fixing screws securely with a Phillips screwdriver.
- 5) Attach the lamp cover, and tighten the lamp cover fixing screw securely with a Phillips screwdriver.
 - Attach the lamp cover by pushing it slowly opposite the direction of the arrow.







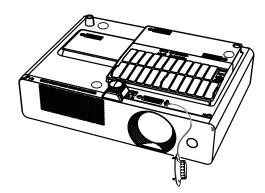
■ Resetting the Lamp Runtime

Be sure to reset the [Lamp runtime] after replacing the lamp. (⇒page 51 " Lamp runtime reset")

Attaching the Lens Cap

When moving this projector or while not using it over an extended period of time, attach the lens cap. Attach the lens cap according to the following procedures.

- 1) Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place.
- 2) To pass the other end of the string into the hole on the bottom of the projector and pull at it.



Troubleshooting

Please check following points. For details, see the corresponding pages.

Problem	Cause		
	The power cord may not be connected.		
	No electric supply is at the wall outlet.	_	
Power does not turn	The circuit breakers have tripped.	_	
on.	Is the <lamp> indicator, <standby(r) on(g)=""> indicator, or <warning> indicator lit or blinking?</warning></standby(r)></lamp>	24, 54	
	The lamp cover has not been securely installed.	_	
	 The video signal input source may not be connected to a terminal properly. 	22	
	The input selection setting may not be correct.	29	
No picture appears.	The [Brightness] adjustment setting may be at the minimum setting.	41	
	The input source which is connected to the projector may have a problem.	_	
	The [BLANK] function may be in use.	30	
	The lens focus may not have been set correctly.	28	
The picture is fuzzy.	The projector may not be at the correct distance from the screen.	20	
The picture is luzzy.	The lens may be dirty.		
	The projector may be tilted too much.		
	• [Color] or [Tint] adjustment may be incorrect.	41	
The color is pale or grayish.	 The input source which is connected to the projector may not be adjusted correctly. 	_	
	RGB cable is damaged.	_	
	The batteries may be weak.	_	
	The batteries may not have been inserted correctly.	18	
The remote control	The remote control signal receptor on the projector may be obstructed.	15	
does not operate.	The remote control unit may be out of the operation range.	15	
	Strong light such as fluorescent shine onto the signal receptor.	15	
	When different codes are set on the projector and on the remote control.	50	
The control buttons of the projector do not operate.	the projector do lock] under [Security] of [Setting] section.		
The picture does not display correctly.			
Picture from a	The cable may be longer than the optional cable.	_	
computer does not appear.	The external video output from a laptop computer may not be correct.		
The image is distorted or runs off. • Check [PC adj.] or [Screen] and adjust them.		38,44	

Note

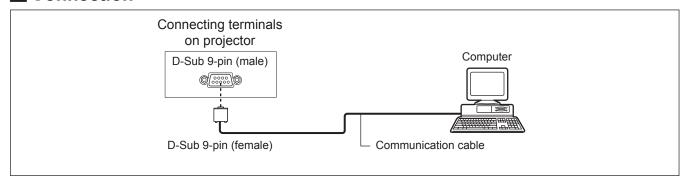
• If the problem persists, after confirming the contents of the table, please consult your dealer.

Technical Information

Serial terminal

The <SERIAL IN> terminal conforms to the RS-232C interface specification, so that the projector can be controlled by a personal computer which is connected to this connector.

Connection



■ Pin assignments and signal names

D-Sub 9-pin (male) Outside view	Pin No.	Signal name	Contents
	1	_	NC
(6) → (9)	2	RXD	Received data
	3	TXD	Transmitted data
	4	_	NC
	5	GND	Earth
	6	_	NC
	7	_	NC
$(1) \rightarrow (5)$	8	_	NC
	9	_	NC

■ Communication conditions

Signal level	RS-232C-compliant
Sync. method	Asynchronous
Baud rate	19200 bps
Parity	None

Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

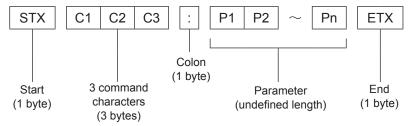
Note

• When [AMX D. D.] function is set to [On] under the [Setting] menu, the Baud rate will change to 9600 bps automatically.

Technical Information

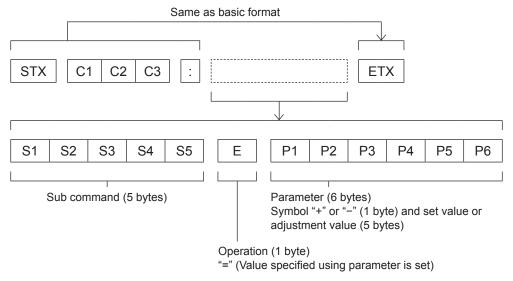
Basic format

Transmission from the computer begins with STX, then the command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



*: When sending commands without parameters, a colon (:) is not necessary.

Basic format (with sub command)

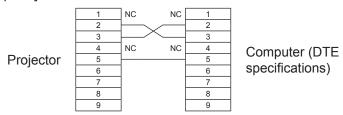


*: When transmitting a command which does not need a parameter, the operation (E) and parameter are not necessary.

Appendi

■ Cable specifications

[When connected to a computer]



■ Control commands

When controlling the projector from a computer, the following commands are available: [Projector control command]

Command	Control contents	Remarks
PON	Power [ON]	
POF	Power [OFF]	
IIS	INPUT selection	(Parameter) VID = Video SVD = Computer 1(S-video) RG1 = Computer 1(RGB) SCT = Computer 1(Scart)
OSH	Blank function	Turning off the projection temporarily. Sending the command switches [ON]/[OFF]. Do not switch [ON]/[OFF] in a short period of time.
OFZ	Freeze	Sending the commend switches [ON]/[OFF].
DZU	D.ZOOM up	
DZD	D.ZOOM down	
QPW	Power query	ooo = Standby oo1 = Power on
Q\$S	Lamp condition query	(Call back) 0 = Stand-by 1 = Lamp ON control active 2 = Lamp ON 3 = Lamp OFF control active

Technical Information

Other terminals

■ Pin assignments and signal names of <COMPUTER IN /COMPONENT IN / S-VIDEO> terminal

Outside view	Pin No.	Signal names
	1	R/PR/S-C
	2	G/G-SYNC/Y/S-Y
(1) → (15) (6) (0) (0) (10) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	3	B/P _B
	9	+5V
	12	DDC data
	13	HD/SYNC
(1) → (5)	14)	VD
	15)	DDC clock

4 : Not assigned

⑤ - 8, ⑩, ⑪ : GND terminals

List of compatible signals

The following table specifies the types of signals compatible with the projectors.

Format : V = VIDEO, S = S-VIDEO, C = COMPUTER, $Y = YP_BP_R$

Mode	Display resolution *1		Scanning frequency Dot clock frequency		Picture quality * ²		PnP	Format
Wode	(dots)	H (kHz)	V (Hz)	(MHz)	PT- LX22E	PT- LX26E	COMPUTER	Tormat
480p	640 x 480	31.47	59.88	25.2	Α	А		
480i	640 x 480i	15.734	60.00	12.2727				
576p	768 x 576	31.25	50.00	29.5	Α	Α		
576i	768 x 576i	15.625	50.00	14.75	Α	Α		
720p	1280 x 720	37.50	50.00	74.25				C/Y
720ρ	1280 X 720	45.00	60.00	74.25				
1035i	1920 x 1035i	33.75	60.00	74.25	Α	Α		
1080/50i	1920 x 1080i	28.125	50.00	74.25	Α	Α		
1080/60i	1920 x 1080i	33.75	60.00	74.25	Α	Α		
		31.47	59.88	25.149	Α	А	0	
		37.86	74.38	31.50	Α	Α	0	
	640 x 480	37.86	72.81	31.50	Α	Α	0	
VGA		37.50	75.00	31.50	Α	А	0]
		43.269	85.00	36.00	Α	А]
	640 x 400	31.47	70.09	25.175	А	А		
	720 x 400	31.47	70.09	28.322	Α	А		
	800 x 600	35.156	56.25	36.00	Α	А	0	
		37.88	60.32	40.00	Α	А	0	
		46.875	75.00	49.50	Α	А	0	
		53.674	85.06	56.25	Α	А	0	
		48.08	72.19	50.00	Α	А		
SVGA		37.90	61.03	40.02	Α	Α		
		34.50	55.38	36.432	Α	А		
		38.00	60.51	40.128	Α	А		C
		38.60	60.31	38.60	Α	А		
		32.70	51.09	32.70	Α	А		1
		38.00	60.51	40.128	Α	А		
MAC	1280 x 960	75.00	75.08	126.00	Α	Α	0	
MAC	1280 x 1024	80.00	75.08	135.20	Α	Α	0]
MAC 13	640 x 480	35.00	66.67	30.24	Α	А	0	
MAC LC13	640 x 480	34.97	66.60	31.33	Α	Α	0]
MAC 16	832 x 624	49.72	74.55	57.283	Α	Α	0	
MAC 19	1024 x 768	60.24	75.08	80.01	Α	А	0	
MAC 21	1152 x 870	68.68	75.06	100.00	Α	А	0	
SXGA+1	1400 x 1050	63.970	60.190	107.990				
SXGA+2	1400 x 1050	65.350	60.120	122.850				
SXGA+3	1400 x 1050	65.120	59.900	122.430				

^{*1: &}quot;i" added to the resolution value indicates an interlaced signal.

AA: Maximum picture quality can be obtained.

^{*2:} Picture quality is indicated by the following symbols.

A: Signals are converted by the image processing circuit.

Technical Information

Mode	Display resolution *1 (dots)		II EUUEIICV		Dot clock quali frequency		PnP	- Format
Mode		H (kHz)	V (Hz)	(MHz)	PT- LX22E	PT- LX26E	COMPUTER	Tomat
		48.36	60.00	65.00	AA	AA		
		68.677	84.977	94.504	AA	AA	0	
		60.023	75.03	78.75	AA	AA	0	
		56.476	70.07	75.00	AA	AA	0	
		60.31	74.92	79.252	AA	AA		
	4004 700	48.50	60.02	65.179	AA	AA		
	1024 x 768	44.00	54.58	59.129	AA	AA		
XGA		63.48	79.35	83.41	AA	AA		
		62.04	77.07	84.375	AA	AA		
		61.00	75.70	81.00	AA	AA		
		46.90	58.20	63.03	AA	AA		
		47.00	58.30	61.664	AA	AA		
		58.03	72.00	74.745	AA	AA		
	1001 700	36.00	87.17	47.30	AA	AA		
	1024 x 768i	35.522	86.96	44.90	AA	AA		1
	1152 x 864	64.20	70.40	94.560	Α	Α		
	1152 x 900	61.20	65.20	92.00	А	Α		-
		71.40	75.60	105.10	А	Α		С
		61.85	66.00	94.50	Α	Α		
	1280 x 960	60.00	60.00	108.00	А	Α	0	
		62.50	58.60	108.00	Α	Α		
		63.90	60.00	107.35	А	Α	0	
		63.34	59.98	108.18	А	Α		
		63.74	60.01	109.497	А	Α		
OVOA		71.69	67.19	117.004	А	Α		- - -
SXGA	4000 4004	81.13	76.107	135.008	Α	Α		
	1280 x 1024	63.98	60.02	108.00	Α	Α		
		79.976	75.025	135.00	А	А		
		63.37	60.01	111.520	Α	А		
		76.97	72.00	130.08	Α	Α		
		63.79	60.18	108.19	Α	Α		
		91.146	85.024	157.5	Α	Α		1
		50.00	86.00	80.00	Α	Α		
	1280 x 1024i	50.00	94.00	80.00	А	Α		
		46.43	86.70	78.745	А	А		

^{*1: &}quot;i" added to the resolution value indicates an interlaced signal.

^{*2:} Picture quality is indicated by the following symbols.

AA: Maximum picture quality can be obtained.

A: Signals are converted by the image processing circuit.

Note

- A signal with a different resolution will be projected after converting the resolution to match the projector display.
- When interlaced signals are connected, flicker may occur on the projected image.

^{*1: &}quot;i" added to the resolution value indicates an interlaced signal.

^{*2:} Picture quality is indicated by the following symbols.

AA: Maximum picture quality can be obtained.

A: Signals are converted by the image processing circuit.

Specifications

Model No.		PT-LX22E	PT-LX26E					
Power supp	ply	AC100 V - 240 V 50 Hz/60 Hz						
		100 V - 240 V 3.4 A-1.8 A 287 W 100 V - 240 V 3.5 A-2.0 A 297						
Power cons	sumption	When [Standby mode] of [Se	etting] is set to [ECO]: 0.47W					
1 Ower consumption		When [Standby mode] of [Setting] is set to [Serial]: 7.1W	When [Standby mode] of [Setting] is set to [Serial]: 8.6W					
	Panel size	1.4 cm(0.55") (aspect ratio 4 : 3)						
I CD namel	Display method	3 transparent LC	D panels (RGB)					
LCD panel	Drive method	Active mat	rix method					
	Pixels	786.432 (1 024 x 768) x 3 panels						
Lens		Manual zoom (1.2 F 2.10 to 2.25, f 19.						
Luminous I	amp	230 W U	HM lamp					
Light outpu	ıt *1	2200 lm (ANSI)	2600 lm (ANSI)					
	for RGB signal	Horizontal 15 kHz to 100 kHz, Vertical 50 Hz to 100 Hz						
	Tor Kob signal	Dot clock frequency: 140 MHz or less						
Applicable scanning frequency *2	for YP _B P _R signal	[525i(480i)] Horizontal 15.75 kHz, Vertical 60 Hz [525p(480p)] Horizontal 31.5 kHz, Vertical 60 Hz [750(720)/60p] Horizontal 45 kHz, Vertical 60 Hz [1125(1080)/60i] Horizontal 33.75 kHz, Vertical 60 Hz [625i(576i)] Horizontal 15.63 kHz, Vertical 50 Hz [625p(576p)] Horizontal 31.25 kHz, Vertical 50 Hz [750(720)/50p] Horizontal 37.5 kHz, Vertical 50 Hz [1125(1080)50i] Horizontal 28.13 kHz, Vertical 50 Hz • HD/SYNC and V terminals are not compliant with 3 value composite SYNC						
	for Video signal (including S-video)	Horizontal 15.75 kHz / 15.63 kHz, Vertical 50 Hz / 60 Hz						
Color system		7 (NTSC, NTSC4.43, PAL, PAL-N, PAL-M, SECAM, PAL60)						
Projection size		0.76 m-7.62 m(30"-300")						
Screen aspect ratio		4:3						
Projection	scheme	Front / Rear / Mount on Ceiling / Floor (Menu setting system)						
Contrast ra	tio *1	500 : 1 (all white / all black)						

^{*1:} Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.

^{*2 :} For details of video signals that can be projected using this projector, refer to "List of compatible signals". (⇒page 65)

Specifications

	Model No.	PT-LX22E	PT-LX26E			
Terminals	COMPUTER IN / COMPONENT IN S-VIDEO IN	VD TTL high impedance, au	e, automatic positive/negative polarity compatible tomatic positive/negative polarity compatible hronization signal, P_BP_R : 0.7 V [p-p] 75 Ω			
	VIDEO IN	1 (RCA pin jack	1.0 V [p-p] 75 Ω)			
	SERIAL IN	1 (D-sub 9 pin, RS-232C comp	oliant, for computer control use			
Power cabl	e length	2.0 m(78 3/4")				
Cabinet		Molded plastic				
Dimensions		Width: 349.0 mm (13.74") Height: 105.1 mm (4.14") (when front adjustable foot shortened) Depth: 247.0 mm (9.72") (excluding protractions)				
Weight		Approx.2.9 kg(6.39 lbs.) *3				
Operating environment		Operating environment temperature: 5 °C (41 °F) to 35 °C (95 °F) Operating environment humidity: 20 % to 80 % (no condensation)				
	Power supply	DC 3 V (battery (AAA/R03 or AAA/LR03) x 2)				
Remote	Operating range	Approx. 7 m (275.6") (when operated directly in front of receptor)				
control	Weight	67 g (2.36 ozs.) (ir	ncluding batteries)			
	Dimensions	Width : 52 mm (2.05"), Length : 110	mm (4.33"), Height : 18 mm (0.71")			

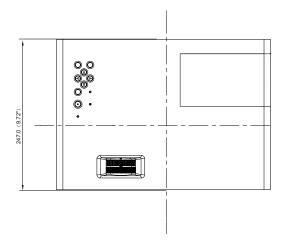
^{*3:} This is an average value. It may differ depending on individual product.

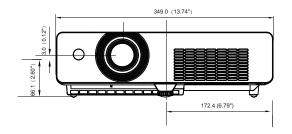
[•] The part numbers of accessories and separately sold components are subject to change without notice.

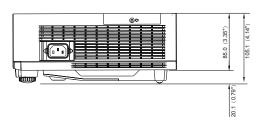
Specifications

Dimensions

<Unit: mm>





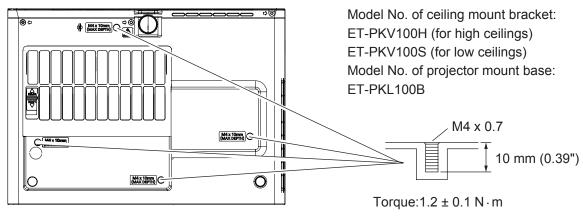


*: Actual dimension may differ by product.

Ceiling mount bracket safeguards

- Installation work of the ceiling mount bracket should only be carried by a qualified technician.
- Even if it is during guaranteed period, the manufacturer is not responsible for any hazard or damage caused by using a ceiling mount bracket which is not purchased from an authorized distributors, or environmental conditions.
- Remove an unused ceiling mount bracket promptly.
- Ensure to use a torque driver and do not use an electrical screwdriver or an impact screwdriver.
- For details, see the work instruction manual packed together with the ceiling mount bracket.
- The model Nos. of the accessories and the parts sold separately are subject to change without notice.
- Make sure the screws on the ceiling mount kit cannot touch the metal parts materials (metallic lath, wire or board) in the ceiling board. Otherwise it may result in fire hazard.

Bottom view



ppendix

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Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Panasonic Corporation

Web Site: http://panasonic.net/avc/projector/