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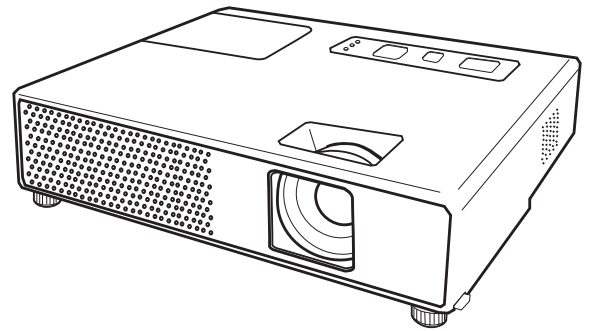


<http://www.myprojectorlamps.eu>

The following projector manual has not been modified or altered in any way.

Projector

CP-X254/CP-X264 User's Manual (detailed) Operating Guide



Thank you for purchasing this projector.

⚠ WARNING ▶ Before using this product, please read all manuals for this product. Be sure to read “Safety Guide” first. After reading them, store them in a safe place for future reference.

About this manual

Various symbols are used in this manual. The meanings of these symbols are described below.

⚠ WARNING This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

⚠ CAUTION This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

 Please refer to the pages written following this symbol.

NOTE • The information in this manual is subject to change without notice.

- The manufacturer assumes no responsibility for any errors that may appear in this manual.
- The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.

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Projector

User's Manual - Safety Guide

Thank you for purchasing this projector.



⚠ WARNING • Before using, read these user's manuals of this projector to ensure correct usage through understanding. After reading, store them in a safe place for future reference. Incorrect handling of this product could possibly result in personal injury or physical damage. The manufacturer assumes no responsibility for any damage caused by mishandling that is beyond normal usage defined in these manuals of this projector.

NOTE • The information in this manual is subject to change without notice.

- The manufacturer assumes no responsibility for any errors that may appear in this manual.
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About The Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

 WARNING	This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
 CAUTION	This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols



This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.



This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).



This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

Safety Precautions

WARNING

Never use the projector if a problem should occur.

Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock.

In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.

- The power outlet should be close to the projector and easily accessible.

Use special caution for children and pets.

Incorrect handling could result in fire, electrical shock, injury, burn or vision problem.

Use special caution in households where children and pets are present.

Do not insert liquids or foreign object.

Penetration of liquids or foreign objects could result in fire or electrical shock.

Use special caution in households where children are present.

If liquids or foreign object should enter the projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

- Do not place the projector near water (ex. a bathroom, a beach, etc.).
- Do not expose the projector to rain or moisture. Do not place the projector outdoors.
- Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc on or around the projector.
- Do not place metals, combustibles, etc on or around the projector.
- To avoid penetration of foreign objects, do not put the projector into a case or bag together with any thing except the accessories of the projector, signal cables and connectors.

Never disassemble and modify.

The projector contains high voltage components. Modification and/or disassembly of the projector or accessories could result in fire or electrical shock.

- Never open the cabinet.
- Ask your dealer to repair and clean insider.

Do not give the projector any shock or impact.

If the projector should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

If the projector is shocked, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Do not place the projector on an unstable surface.

If the projector should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

- Do not place the projector on an unstable, slant or vibrant surface such as a wobbly or inclined stand.
- Use the caster brakes placing the projector on a stand with casters.
- Do not place the projector in the side up position, the lens up position or the lens down position.
- In the case of a ceiling installation or the like, contact your dealer before installation.



Disconnect the plug from the power outlet.



Do not disassemble.



Safety Precautions (continued)

WARNING

Be cautious of High temperatures of the projector.

High temperatures are generated when the lamp is lit. It could result in fire or burn. Use special caution in households where children are present.

Do not touch about the lens, air fans and ventilation openings during use or immediately after use, to prevent a burn. Take care of ventilation.

- Keep a space of 30 cm or more between the sides and other objects such as walls.
- Do not place the projector on a metallic table or anything weak in heat.
- Do not place anything about the lens, air fans and ventilation openings of the projector.
- Never block the air fan and ventilation openings.
- Do not cover the projector with a tablecloth, etc.
- Do not place the projector on a carpet or bedding.



Never look through the lens or openings when the lamp is on.

The powerful light could adversely affect vision.

Use special caution in households where children are present.



Use only the correct power cord and the correct power outlet.

Incorrect power supply could result in fire or electrical shock.

• Use only the correct power outlet depending on the indication on the projector and the safety standard.

• The enclosed power cord must be used depending on the power outlet to be used.



Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

- Do not touch the power cord with a wet hand.
- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.



Be sure to connect with ground wire.

Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using the correct power cord; otherwise, fire or electric shock can result.

- Don't take the core of power cord away.



Surely connect the ground wire.

Safety Precautions (continued)

WARNING

Be careful in handling the light source lamp.

The projector uses a high-pressure mercury glass lamp made of glass. The lamp can break with a loud bang, or burn out. When the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

Please carefully read the section "Lamp".

Be careful in handling the power cord and external connection cables.

If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

If the power cord or cables is damaged (exposed or broken core wires, etc.), contact your dealer.

- Do not place the projector or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.

- Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.

- Do not place the cord near the heater.

- Avoid bending the power cord sharply.

- Do not attempt to work on the power cord.

Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

- Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.

- Do not allow the battery in a fire or water.

- Avoid fire or high-temperature environment.

- Do not hold the battery with the metallic tweezers.

- Keep the battery in a dark, cool and dry play.

- Do not short circuit the battery.

- Do not recharge, disassemble or solder the battery.

- Do not give the battery a physical impact.

- Use only the battery specified in the other manual of this projector.

- Make sure the plus and minus terminals are correctly aligned when loading the battery.

- If you observe a leakage of the battery, wipe out the flower and then replace the battery. If the flower adheres your body or clothes, rinse well with water.

- Obey the local laws on disposing the battery.



Safety Precautions (continued)

CAUTION

Be careful in moving the projector.

Neglect could result in an injury or damage.

- Do not move the projector during use. Before moving, disconnect the power cord and all external connections, and close the slide lens door or attach the lens cap.
- Avoid any impact or shock to the projector.
- Do not drag the projector.
- For moving the projector, use the enclosed case or bag if provided.



Do not put anything on top of the projector.

Placing anything on the projector could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.



Do not attach anything other than specified things to the projector.

Neglect could result in an injury or damage.

- Some projector has a screw thread in a lens part. Do not attach anything other than specified options (such as conversion lens) to the screw thread.



Avoid a smoky, humid or dusty place.

Placing the projector in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.

- Do not place the projector near a smoky, humid or dusty place (ex. a smoking space, a kitchen, a beach, etc.). Do not place the projector outdoors.
- Do not use a humidifier near the projector.



Take care of the air filter to normal ventilate.

The air filter should be cleaned periodically. If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

- When the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible.
- If the soiling will not come off the air filter, or it becomes damaged, replace the air filter.
- Use the air filter of the specified type only. Please order the air filter specified in the other manual of this projector to your dealer.
- When you replace the lamp, replace also the air filter. The air filter may be attached when you buy a replacement lamp for this projector.
- Do not turn on the projector without air filter.



Avoid a high temperature environment.

The heat could have adverse influence on the cabinet of the projector and other parts. Do not place the projector, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.



Avoid Magnetism.

Manufacture strongly recommends to avoid any magnetic contact that is not shielded or protected on or near the projector itself. (ie., Magnetic Security Devices, or other projector accessory that contains magnetic material that has not been provided by the manufacture etc.) Magnetic objects may cause interruption of the projector's internal mechanical performance which may interfere with cooling fans speed or stopping, and may cause the projector to completely shut down.



Safety Precautions (continued)

CAUTION

Remove the power cord for complete separation.

- For safety purposes, disconnect the power cord if the projector is not to be used for prolonged periods of time.
- Before cleaning, turn off and unplug the projector. Neglect could result in fire or electrical shock.



Disconnect the plug from the power outlet.

Ask your dealer to cleaning inside of the projector about every year.

Accumulations of dust inside the projector cause result in fire or malfunction. Cleaning inside is more effective if performed before every humid periods such as rainy season.



- Do not clean inside yourself because it is dangerous.

NOTE

Do not give the remote control any physical impact.

A physical impact could cause damage or malfunction of the remote control.

- Take care not to drop the remote control.
- Do not place the projector or heavy objects on the remote control.

Take care of the lens.

- Close the slide lens door or attach the lens cap to prevent the lens surface being scratched when the projector is not used.
- Do not touch the lens to prevent fog or dirt of the lens that cause deterioration of display quality.
- Use commercially available lens tissue to clean the lens (used to clean cameras, eyeglasses, etc.). Be careful not to scratch the lens with hard objects.

Take care of the cabinet and the remote control.

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

- Use a soft cloth to clean the cabinet and control panel of the projector and the remote control. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth. Do not use undiluted detergent directly.
- Do not use an aerosol sprays, solvents, volatile substances or abrasive cleaner.
- Before using chemical wipes, be sure to read and observe the instructions.
- Do not allow long-term close contact with rubber or vinyl.

About bright spots or dark spots.

Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

Be careful of printing of the LCD panel.

If the projector continues projecting a still image, inactive images or 16:9 aspect images in case of 4:3 panel, etc., for long time, the LCD panel might possibly be printed.

Safety Precautions (continued)

NOTE

About consumables.

Lamp, LCD panels, polarizers and other optical components, and air filter and cooling fans have a different lifetime in each. These parts may need to be replaced after a long usage time.

- This product isn't designed for continuous use of long time. In the case of continuous use for 6 hours or more, or use for 6 hours or more every day (even if it isn't continuous), or repetitious use, the lifetime may be shortened, and these parts may need to be replaced even if one year has not passed since the beginning of using.
- Any inclining use beyond the adjustment range explained in these user's manuals may shorten the lifetimes of the consumables.

Before turning on the power, make the projector cool down adequately.

After turning the projector off, pushing the restart switch or interrupting of the power supply, make the projector cool down adequately. Operation in a high temperature state of the projector causes a damage of the electrode and un-lighting of the lamp.

Avoid strong rays.

Any strong ray (such as direct rays of the sun or room lighting) onto the remote control sensors could invalidate the remote control.

Avoid radio interference.

Any interfering radiation could cause disordered image or noises.

- Avoid radio generator such as a mobile telephone, transceiver, etc. around the projector.

About displaying characteristic.

The display condition of the projector (such as color, contrast, etc.) depends on characteristic of the screen, because the projector uses a liquid crystal display panel. The display condition can differ from the display of CRT.

- Do not use a polarized screen. It can cause red image.

Turn the power on/off in right order.

To prevent any trouble, turn on/off the projector in right order mentioned below unless specifying.

- Power on the projector before the computer or video tape recorder.
- Power off the projector after the computer or video tape recorder.

Take care not to fatigue your eyes.

Rest the eyes periodically.

Set the sound volume at a suitable level to avoid bothering other people.

- It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

Connecting with notebook computer

When connecting with notebook computer, set to valid the RGB external image output (setting CRT display or simultaneous display of LCD and CRT).

Please read instruction manual of the notebook for more information.

Lamp

WARNING



HIGH VOLTAGE



HIGH TEMPERATURE



HIGH PRESSURE

The projector uses a high-pressure mercury glass lamp. The lamp can **break with a loud bang, or burn out**, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for **shards of glass** to fly into the lamp housing, and for **gas containing mercury** to escape from the projector's vent holes.

About disposal of a lamp • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws.

For lamp recycling, go to www.lamprecycle.org. (in USA)

For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.



Disconnect
the plug from
the power
outlet

- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use the lamp of the specified type only.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Regulatory Notices

FCC Statement Warning

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met. Some cables have to be used with the core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the Customers in CANADA

NOTICE: This Class B digital apparatus complies with Canadian ICES-003.

Warranty And After-Service

Unless seen any abnormal operations (mentioned with the first paragraph of WARNING in this manual), when a problem occurs with the equipment, first refer to the "Troubleshooting" section of the "Operating Guide", and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

Content

About this manual	1		EASY MENU	21	
Content	2		ASPECT, AUTO KEYSTONE  EXECUTE,		
Projector features	3		KEYSTONE  , PICTURE MODE, BRIGHTNESS,		
Preparations	3		CONTRAST, COLOR, TINT, SHARPNESS,		
Contents of package	3		WHISPER, MIRROR, RESET, FILTER TIME,		
Fastening the lens cover	3		LANGUAGE, Go to Advanced Menu...		
Replacing the filter cover for bottom-up use	3		PICTURE menu	23	
Part names	4		BRIGHTNESS, CONTRAST, GAMMA, COLOR TEMP,		
Projector	4		COLOR, TINT, SHARPNESS, MY MEMORY		
Control panel	5		IMAGE menu	26	
Remote control	5		ASPECT, OVER SCAN, V POSITION, H POSITION,		
Setting up	6		H PHASE, H SIZE, AUTO ADJUST EXECUTE		
Arrangement	6		INPUT menu	28	
Connecting your devices	8		PROGRESSIVE, VIDEO NR, COLOR SPACE,		
Connecting power supply	10		VIDEO FORMAT, FRAME LOCK, COMPUTER IN,		
Using the security slot	10		RESOLUTION		
Remote control	11		SETUP menu	31	
Putting batteries	11		AUTO KEYSTONE  EXECUTE, KEYSTONE  ,		
About the remote control signal	11		WHISPER, MIRROR, VOLUME, AUDIO		
Changing the frequency of remote control signal	12		SCREEN menu	33	
Using as a simple PC mouse & keyboard	12		LANGUAGE, MENU POSITION, BLANK,		
Power on/off	13		START UP, MyScreen, MyScreen Lock,		
Turning on the power	13		MESSAGE, SOURCE NAME		
Turning off the power	13		OPTION menu	37	
Operating	14		AUTO SEARCH, AUTO KEYSTONE  ,		
Adjusting the volume	14		AUTO ON, AUTO OFF, LAMP TIME,		
Temporarily muting the sound	14		FILTER TIME, MY BUTTON, SERVICE,		
Selecting an input signal	14		SECURITY		
Searching an input signal	15		Maintenance	48	
Selecting an aspect ratio	15		Lamp	48	
Adjusting the projector's elevator	16		Air filter	50	
Adjusting the zoom and focus	16		Other care	51	
Using the automatic adjustment feature	17		Troubleshooting	52	
Adjusting the position	17		Related messages	52	
Correcting the keystone distortions	18		Regarding the indicator lamps	53	
Using the magnify feature	18		Shutting the projector down	54	
Freezing the screen	19		Resetting all settings	54	
Temporarily blanking the screen	19		Phenomena that may be easy to be mistaken for machine defects	55	
Using the menu function	20		Specifications	57	

Projector features

This projector has a capability to project various picture signals onto a screen. This projector requires only a minimal amount of space for installation and can produce a large projected image from even a short distance.

This projector has very compact and stylish design. Also in such compact body, high power optical engine is mounted, which can make high bright image on screen.

Preparations

Contents of package

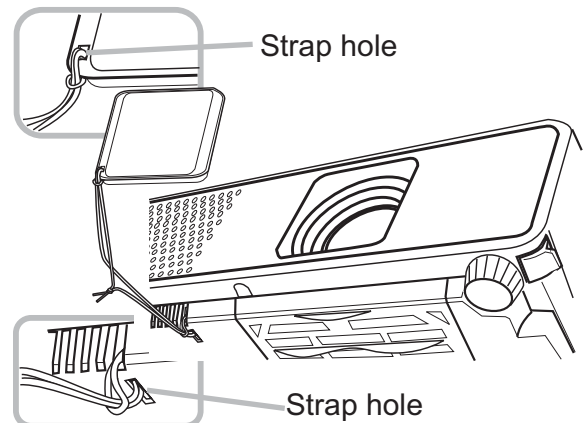
Please see the “Contents of package” in the “User’s Manual (concise)” which is a book. Your projector should come with the items shown there. Contact immediately your dealer if anything is missing.

NOTE • Keep the original packing materials, for future reshipment. Be sure to use the original packing materials when moving the projector. Use special caution for the lens.

Fastening the lens cover

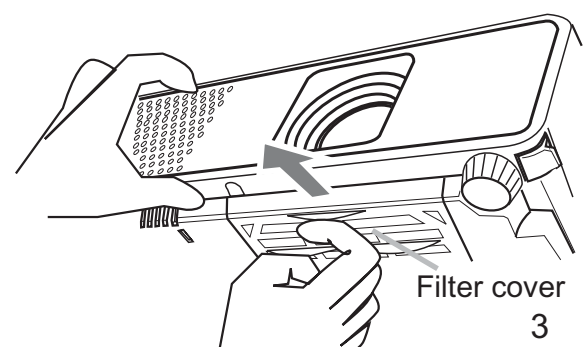
To avoid losing the lens cover, please fasten the lens cover to the projector using the enclosed strap.

1. Fix the strap to the strap hole of the lens cover.
 - Thread one end of the strap through the strap hole of the lens cover and make the loop at the end, and let the other end of the strap through the loop. Not have a knot in the strap at either end.
2. Fix the strap to the strap hole of the projector.
 - Thread the other end of the strap through the strap hole of the projector and make the loop there. Let the lens cover with the one end of strap though the loop.



Replacing the filter cover for bottom-up use

For the projector installed bottom-up, please replace the filter cover with the enclosed filter cover for bottom-up use, to keep necessary ventilation space. Please refer to the “Air filter” (📖 50) for how to detach and attach a filter cover.

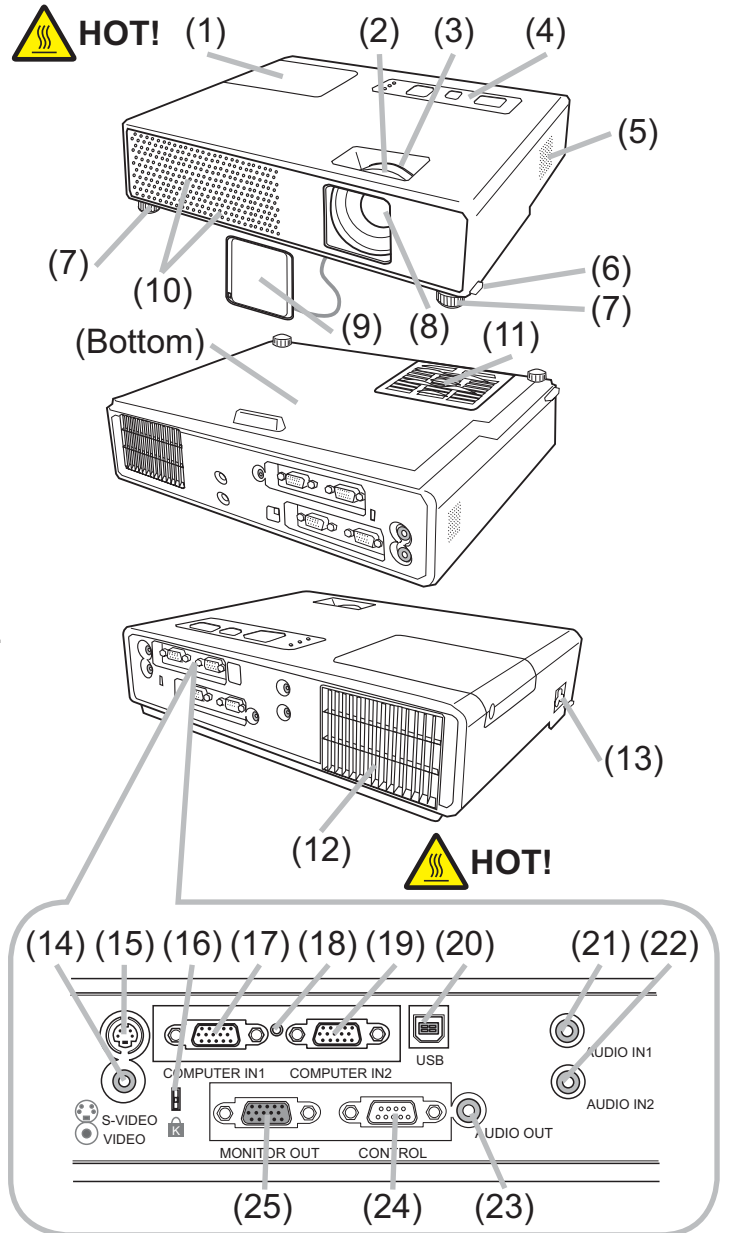


⚠ WARNING ▶ Consult with your dealer before a special installation such as suspending from a ceiling.

Part names

Projector

- (1) Lamp cover (📖48)
The lamp unit is inside.
- (2) Focus ring (📖16)
- (3) Zoom ring (📖16)
- (4) Control panel (📖5)
- (5) Speaker (📖32)
- (6) Elevator knobs (x 2) (📖16)
- (7) Elevator feet (x 2) (📖16)
- (8) Lens (📖13, 51)
- (9) Lens cover (📖3)
- (10) Intake vents
- (11) Filter cover (📖50)
The air filter and intake vent are inside.
- (12) Exhaust vents
- (13) AC inlet (📖10)
- (14) VIDEO port (📖8)
- (15) S-VIDEO port (📖8)
- (16) Security slot (📖10)
- (17) COMPUTER IN1 port (📖8)
- (18) Shutdown switch (📖54)
- (19) COMPUTER IN2 port (📖8)
- (20) USB port (📖8)
- (21) AUDIO IN1 port (📖8)
- (22) AUDIO IN2 port (📖8)
- (23) AUDIO OUT port (📖8)
- (24) CONTROL port (📖8)
- (25) MONITOR OUT port (📖8)



⚠️ WARNING ► HOT! : Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.

► Do not look into the lens or vents while the lamp is on, since the strong light is not good for your eyes.

► Do not handle the elevator knobs without holding the projector, since the projector may drop down.

⚠️ CAUTION ► Maintain normal ventilation to prevent the projector from heating up. Do not cover, block or plug up the vents. Do not place anything that can stick or be sucked to the vents, around the intake vents. Clean the air filter periodically.

► Do not use the security slot to prevent the projector from falling down, since it is not designed for it.

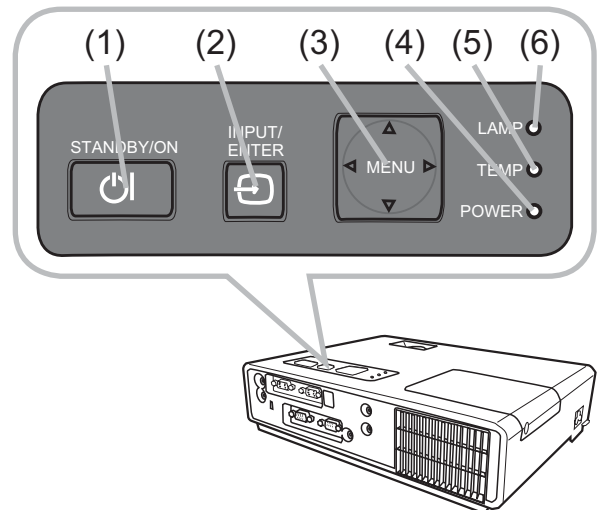
► Use the shutdown switch only when the projector is not turned off by normal procedure, since pushing this switch stops operation of the projector without cooling it down.

Control panel

- (1) STANDBY/ON button (📖13)
- (2) INPUT/ENTER button (📖14, 20)
- (3) MENU button (📖20)

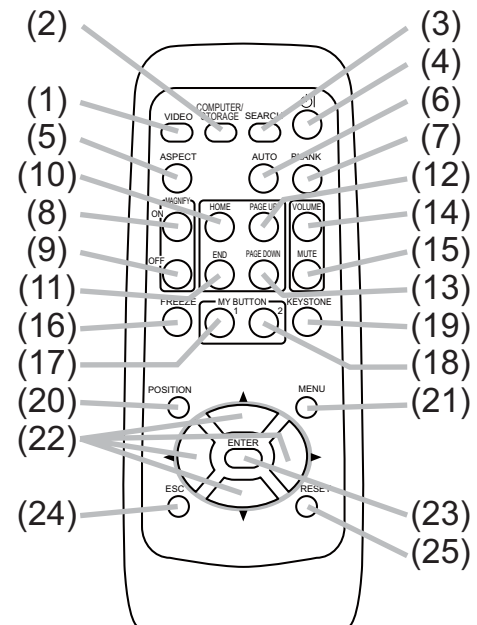
It consists of four cursor buttons.

- (4) POWER indicator (📖13, 53)
- (5) TEMP indicator (📖53)
- (6) LAMP indicator (📖53)

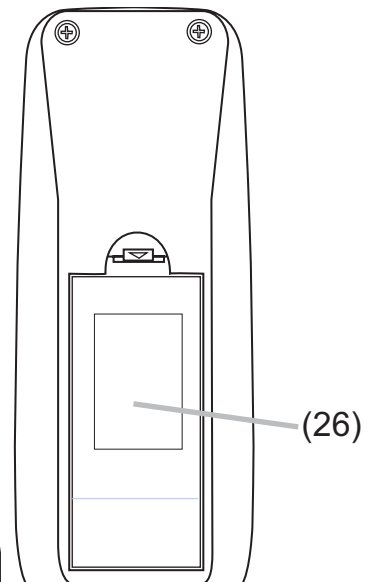


Remote control

- (1) VIDEO button (📖15)
- (2) COMPUTER/STORAGE button (📖14)
- (3) SEARCH button (📖15)
- (4) STANDBY/ON button (📖13)
- (5) ASPECT button (📖15)
- (6) AUTO button (📖17)
- (7) BLANK button (📖19)
- (8) MAGNIFY - ON button (📖18)
- (9) MAGNIFY - OFF button (📖12, 18)
- (10) HOME button (📖12)
- (11) END button (📖12)
- (12) PAGE UP button (📖12)
- (13) PAGE DOWN button (📖12)
- (14) VOLUME button (📖14)
- (15) MUTE button (📖12, 14)
- (16) FREEZE button (📖19)
- (17) MY BUTTON - 1 button (📖39)
- (18) MY BUTTON - 2 button (📖39)
- (19) KEYSTONE button (📖18)
- (20) POSITION button (📖17)
- (21) MENU button (📖20)
- (22) ▲/▼/◀/▶ cursor buttons (📖12, 20)
- (23) ENTER button (📖12, 20)
- (24) ESC button (📖12, 20)
- (25) RESET button (📖12, 20)
- (26) Battery cover (📖11)



Back of
the remote control



NOTE • The COMPUTER/STORAGE button on the remote control is button for selecting only a PC input. This model does not have any function about STORAGE device.

Setting up

Install the projector according to the environment and manner the projector will be used in.

Arrangement

Refer to the illustrations and tables below to determine screen size and projection distance.

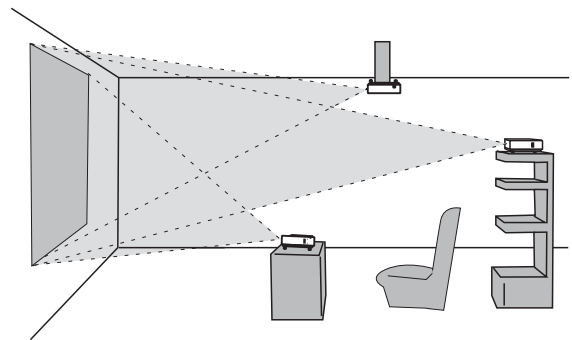
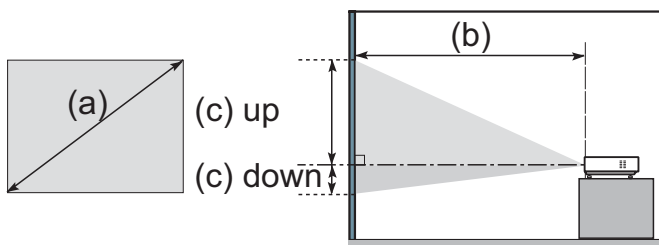
The values shown in the table are calculated for a full size screen: 1024×768.

(a) Screen size (diagonal)

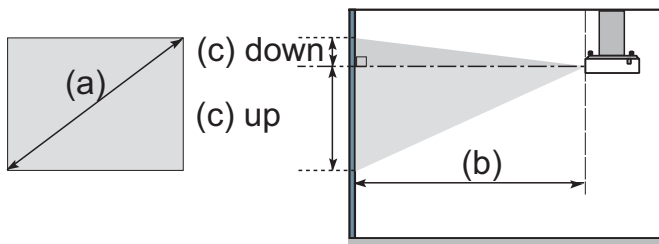
(b) Projection distance ($\pm 10\%$)

(c) Screen height ($\pm 10\%$)

On a horizontal surface



Suspended from the ceiling



- Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.
- Consult with your dealer before a special installation such as suspending from a ceiling.

(a) Screen size (diagonal)		4 : 3 screen								16 : 9 screen							
		(b) Projection distance				(c) Screen height				(b) Projection distance				(c) Screen height			
		min.		max.		down		up		min.		max.		down		up	
inch	m	m	inch	m	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch
30	0.8	0.9	35	1.1	42	7	3	39	15	1.0	38	1.2	46	1	0	36	14
40	1.0	1.2	47	1.4	57	9	3	52	21	1.3	51	1.6	62	1	0	49	19
50	1.3	1.5	59	1.8	71	11	4	65	26	1.6	64	2.0	77	1	1	61	24
60	1.5	1.8	71	2.2	85	13	5	78	31	2.0	77	2.4	93	2	1	73	29
70	1.8	2.1	83	2.5	100	15	6	91	36	2.3	90	2.8	109	2	1	85	34
80	2.0	2.4	95	2.9	114	17	7	105	41	2.6	103	3.2	124	2	1	97	38
90	2.3	2.7	107	3.3	128	20	8	118	46	3.0	116	3.6	140	3	1	109	43
100	2.5	3.0	119	3.6	143	22	9	131	51	3.3	129	4.0	156	3	1	122	48
120	3.0	3.6	143	4.4	171	26	10	157	62	4.0	156	4.7	187	4	1	146	57
150	3.8	4.5	179	5.4	215	33	13	196	77	4.9	195	5.9	234	4	2	182	72
200	5.1	6.1	238	7.3	286	44	17	261	103	6.6	260	7.9	321	6	2	243	96
250	6.4	7.6	298	9.1	358	54	21	327	129	8.3	325	9.9	390	7	3	304	120
300	7.6	9.1	358	10.9	430	65	26	392	154	9.9	390	11.9	469	9	4	365	144

⚠ WARNING ► Place the projector in a stable horizontal position. If the projector falls or is knocked over it could cause injury and/or damage to the projector. Using a damaged projector could then result in fire and/or electric shock.

- Do not place the projector on an unstable, slanted or vibrational surface such as a wobbly or inclined stand.
- Do not place the projector on its side, front or rear position.
- Consult with your dealer before a special installation such as suspending from a ceiling.

► Place the projector in a cool place, and ensure that there is sufficient ventilation. The high temperature of the projector could cause fire, burns and/or malfunction of the projector.

- Do not stop-up, block or otherwise cover the projector's vents.
- Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.
- Do not place the projector on metallic thing or anything weak in heat.
- Do not place the projector on carpet, cushions or bedding.
- Do not place the projector in direct sunlight or near hot objects such as heaters.
- Do not anything near the projector lens or vents, or on top of the projector.
- Do not place anything that may be sucked into or stick to the vents on the bottom of the projector. This projector has some intake vents also on the bottom.

► Do not place the projector anyplace where it may get wet. Getting the projector wet or inserting liquid into the projector could cause fire, electric shock and/or malfunction of the projector.

- Do not place the projector in a bathroom or the outdoors.
- Do not place anything containing liquid near the projector.

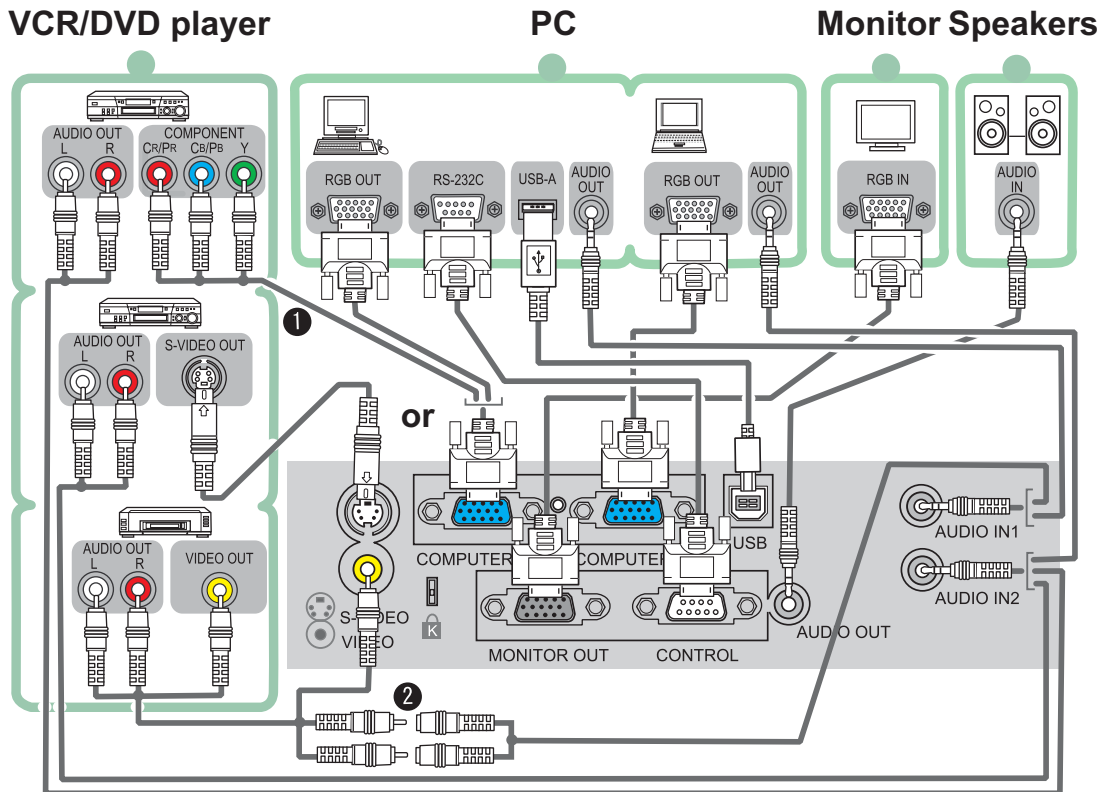
⚠ CAUTION ► Avoid placing the projector in smoky, humid or dusty place. Placing the projector in such places could cause fire, electric shock and/or malfunction of the projector.

- Do not place the projector near humidifiers, smoking spaces or a kitchen.
- Position the projector to prevent light from directly hitting the projector's remote sensor.

Connecting your devices

Be sure to read the manuals for devices before connecting them to the projector. Make sure that all the devices are suitable to be connected with this product, and prepare the cables required to connect.

Please refer to the following illustrations to connect them.



NOTE ① The COMPUTER IN1 port can support a component signal also. For more information, please see the description of the COMPUTER IN item of the INPUT menu (📖 29).

② Please use the enclosed Video/Audio cable and Audio adapter.

⚠ WARNING ▶ Do not disassemble or modify the projector and accessories.

▶ Be careful not to damage the cables, and do not use damaged cables.

⚠ CAUTION ▶ Turn off all devices and unplug their power cords prior to connecting them to projector. Connecting a live device to the projector may generate extremely loud noises or other abnormalities that may result in malfunction or damage to the device and the projector.

▶ Use appropriate accessory or otherwise designed cables. Ask your dealer about non-accessory cables which may have to be of a specific length or equipped with a core. For cables with a core only at one end, connect the end with the core to the projector.

▶ Make sure that devices are connected to the correct ports. An incorrect connection may result in malfunction or damage to the device and the projector.

Connecting your devices (continued)

NOTE • Be sure to read the manuals for devices before connecting them to the projector, and make sure that all the devices are suitable to be connected with this product. Before connecting to a PC, check the signal level, the signal timing, and the resolution.

- Some signal may need an adapter to input this projector.
- Some PCs have multiple screen display modes that may include some signals which are not supported by this projector.
- Although the projector can display signals with resolution up to UXGA (1600X1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and the projector panel are identical.
- While connecting, make sure that the shape of the cable's connector fits the port to connect with. And be sure to tighten the screws on connectors with screws.
- When connecting a laptop PC to the projector, be sure to activate the PC's external RGB output. (Set the laptop PC to CRT display or to simultaneous LCD and CRT display.) For details on how this is done, please refer to the instruction manual of the corresponding laptop PC.
- When the picture resolution is changed on a pc depending on an input, automatic adjustment function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or LCD monitors to change the resolution.
- In some cases, this projector may not display a proper picture or display any picture on screen. For example, automatic adjustment may not function correctly with some input signals. An input signal of composite sync or sync on G may confuse this projector, so the projector may not display a proper picture.

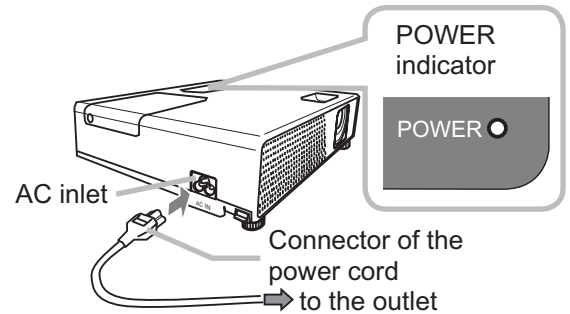
About Plug-and-Play capability

Plug-and-Play is a system composed of a PC, its operating system and peripheral equipment (i.e. display devices). This projector is VESA DDC 2B compatible. Plug-and-Play can be used by connecting this projector to a pc that is VESA DDC (display data channel) compatible.

- Take advantage of this feature by connecting an RGB cable to the COMPUTER IN1 port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
- Please use the standard drivers in your pc as this projector is a Plug-and-Play monitor.

Connecting power supply

1. Put the connector of the power cord into the AC inlet of the projector.
2. Firmly plug the power cord's plug into the outlet. In a couple of seconds after the power supply connection, the POWER indicator will light up in steady orange.



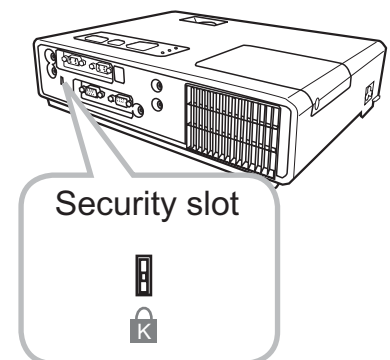
Please remember that when the AUTO ON function (📖 37) activated, the connection of the power supply make the projector turn on.

- ⚠ WARNING** ▶ Please use extra caution when connecting the power cord, as incorrect or faulty connections may result in fire and/or electrical shock.
- Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
 - Only plug the power cord into an outlet rated for use with the power cord's specified voltage range. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.
 - Never modify the power cord.

Using the security slot

This product has the security slot for the Kensington lock. For details, see the manual of the security tool.

- ⚠ WARNING** ▶ Do not use the security slot to prevent the projector from falling down, since it is not designed for it.



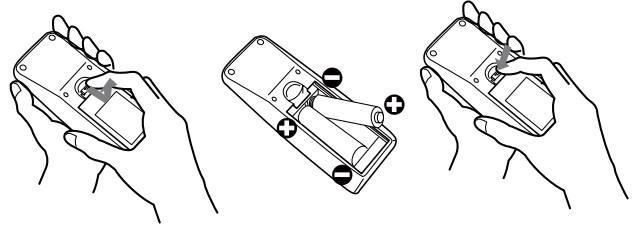
NOTE • The security slot is not comprehensive theft prevention measures. It is intended to be used as supplemental theft prevention measure.

Remote control

Putting batteries

Please set the batteries to the remote control before using it. If the remote control starts to malfunction, try to replace the batteries. If you will not use the remote control for long period, remove the batteries from the remote control and store them in a safe place.

1. Holding the hook part of the battery cover, remove it.
2. Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control.
3. Replace the battery cover in the direction of the arrow and snap it back into place.



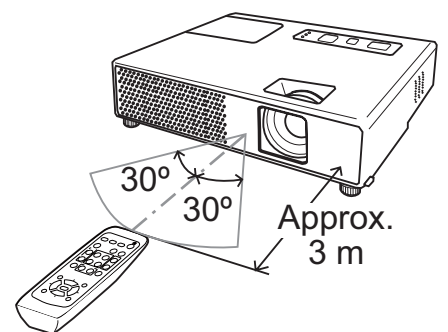
⚠ WARNING ▶ Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

- Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
- Make sure the plus and minus terminals are correctly aligned when loading a battery.
- Keep a battery away from children and pets.
- Do not recharge, short circuit, solder or disassemble a battery.
- Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
- If you observe a leakage of a battery, wipe out the flower and then replace a battery. If the flower adheres your body or clothes, rinse well with water immediately.
- Obey the local laws on disposing the battery.

About the remote control signal

The remote control works with the projector's remote sensor. This projector has a remote sensor on the front.

The sensor senses the signal within the following range when the sensor is active:
60 degrees (30 degrees to the left and right of the sensor) within 3 meters about.




NOTE • The remote control signal reflected in the screen or the like may be available. If it is difficult to send the signal to the sensor directly, attempt to make the signal reflect.

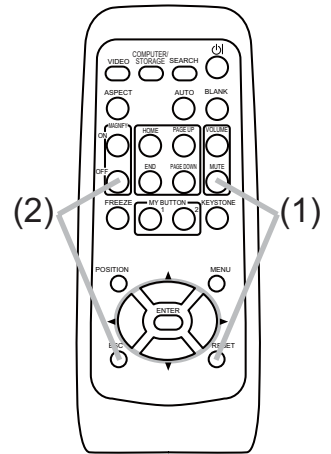
- The remote control uses infrared light to send signals to the projector (Class 1 LED), so be sure to use the remote control in an area free from obstacles that could block the remote control's signal to the projector.
- The remote control may not work correctly if strong light (such as direct sun light) or light from an extremely close range (such as from an inverter fluorescent lamp) shines on the remote sensor of the projector. Adjust the position of projector avoiding those lights.

Changing the frequency of remote control signal

The accessory remote control has the two choices on signal frequency Mode 1:NORMAL and Mode 2:HIGH. If the remote control does not function properly, attempt to change the signal frequency.

In order to set the Mode, please keep pressing the combination of two buttons listed below simultaneously for about 3 seconds.

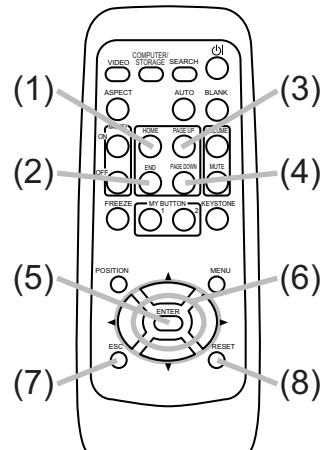
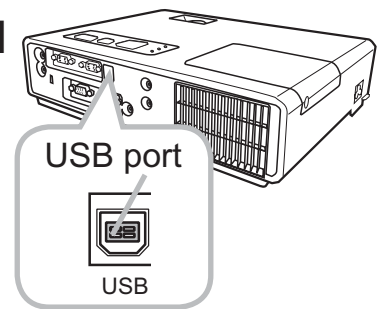
- (1) Set to Mode 1:NORMAL... MUTE and RESET buttons
 - (2) Set to Mode 2:HIGH... MAGNIFY OFF and ESC buttons
- Please remember that the REMOTE FREQ. in the SERVICE item of the OPTION menu ( 41) of the projector to be controlled should be set to the same mode as the remote control.



Using as a simple PC mouse & keyboard

The enclosed remote control works as a simple mouse and keyboard of the PC, when the projector's USB port (B type) connects with the PC's mouse port via a mouse cable.

- (1) **HOME key:** Press the HOME button.
- (2) **END key:** Press the END button.
- (3) **PAGE UP key:** Press the PAGE UP button.
- (4) **PAGE DOWN key:** Press the PAGE DOWN button.
- (5) **Mouse left button:** Press the ENTER button.
- (6) **Move pointer:** Use the cursor buttons ▲, ▼, ◀ and ▶.
- (7) **ESC key:** Press the ESC button.
- (8) **Mouse right button:** Press the RESET button.



⚠ CAUTION ▶ Improper use of the simple mouse & keyboard function could damage your equipment. While using this function, please connect this product only to a PC. Be sure to check your PC's manuals before connecting this product to the PC.

NOTE • When the simple mouse & keyboard function of this product does not work correctly, please check the following.

- When the mouse cable connects this projector with a PC having a built-in pointing device (e.g. track ball) like a notebook PC, open BIOS setup menu, then select the external mouse and disable the built-in pointing device, because the built-in pointing device may have priority to this function.
- Windows 95 OSR 2.1 or higher is required for this function. And also this function may not work depending on the PC's configurations and mouse drivers.
- You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).
- This function is activated only when the projector is working properly. This function is not available while the lamp is warming up (the POWER indicator flashes green), and while adjusting the volume and display, correcting for keystone, zooming in on the screen, using the BLANK function, or displaying the menu screen.

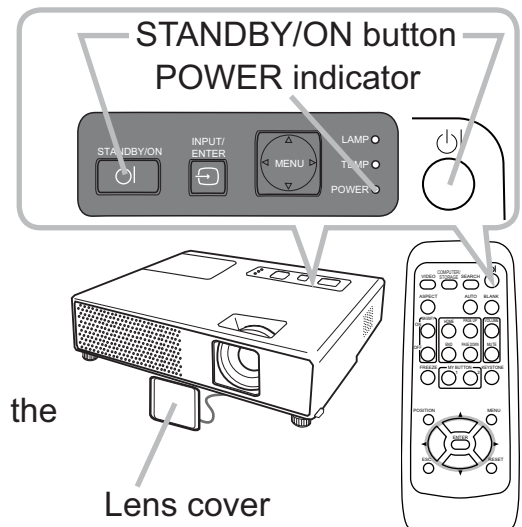
Power on/off

Turning on the power

1. Make sure that the POWER indicator turns in steady orange and the lens cover is removed.
2. Press the STANDBY/ON button on the projector or the remote control.

The projection lamp will light up and the POWER indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green.

To display the picture, select an input signal according to the section “Selecting an input signal” (📖15).

**Turning off the power**

1. Press the STANDBY/ON button on the projector or the remote control. The message “Power off?” will appear on the screen for about 5 seconds.
2. Press the STANDBY/ON button again while the message appears. The projector lamp will go off, and the POWER indicator will begin blinking in orange. Then the POWER indicator will stop blinking and light in steady orange when the lamp cooling is complete.
3. Attach the lens cover, after the POWER indicator turns in steady orange. Do not turn the projector on for about 10 minutes after turning it off. Turning the projector on again too soon could shorten the lifetime of some consumable parts of the projector.

⚠️ WARNING ▶ A strong light is emitted when the projector’s power is on. Do not look into the lens of the projector or look inside of the projector through any of the projector’s openings.

▶ Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.

▶ Remove the power cord for complete separation.

NOTE • Please power on the projector prior to the connected devices. Power off the projector, after all of connected devices are powered off.

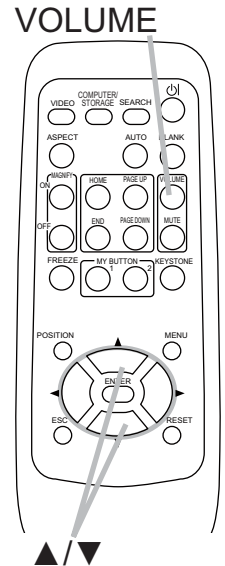
• This projector has the function that can make the projector automatically turn on/off. Please refer to the AUTO ON (📖37) and AUTO OFF (📖38) items of the OPTION menu.

• Use the shutdown switch (📖54) only when the projector is not turned off by normal procedure.

Operating

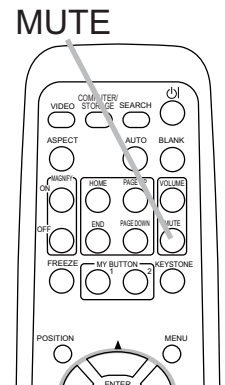
Adjusting the volume

1. Press the VOLUME button on the remote control.
 - A dialog will appear on the screen to aid you in adjusting the volume.
 2. Use the ▲/▼ cursor buttons to adjust the volume.
 - To close the dialog and complete the operation, press the VOLUME button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.
- When \times is selected for the AUDIO item of the SETUP menu (📖32), the volume adjustment is disable.



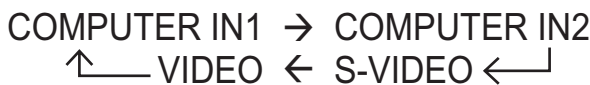
Temporarily muting the sound

1. Press the MUTE button on the remote control.
 - A dialog will appear on the screen indicating that you have muted the sound.
- To restore the sound, press the MUTE or VOLUME button. Even if you do not do anything, the dialog will automatically disappear after a few seconds.
- When \times is selected for the AUDIO item of the SETUP menu (📖32), the volume adjustment is disable.



Selecting an input signal

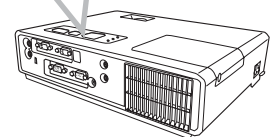
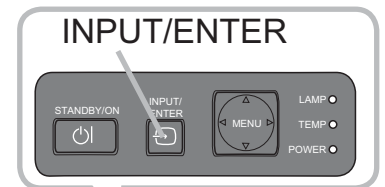
1. Press the INPUT/ENTER button on the projector.
 - Each time you press the button, the projector switches its input port as below.



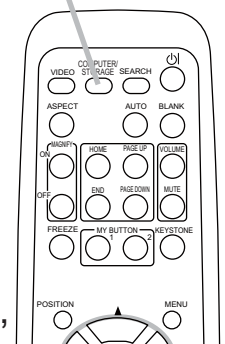
1. Press the COMPUTER/STORAGE button on the remote control.
 - Each time you press the button, the projector switches its input port as below.



- If the COMPUTER/STORAGE button is pushed to switch from a signal from the VIDEO or S-VIDEO port, when TURN ON is selected for the AUTO SEARCH item in the OPTION menu (📖37), the projector will check the COMPUTER IN1 port first. If no input is detected at the port, the projector will check other port in above order.



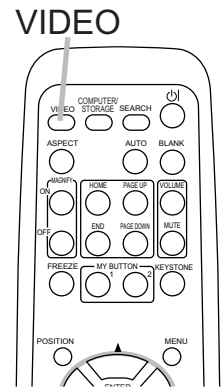
COMPUTER/STORAGE



(continued on next page)

Selecting an input signal (continued)

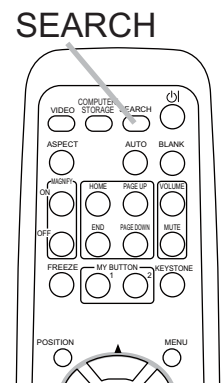
1. Press the VIDEO button on the remote control.
 - Each time you press the button, the projector switches its input port as below.
 - S-VIDEO ↔ VIDEO
 - If the VIDEO button is pushed to switch from a signal from the COMPUTER IN1 or COMPUTER IN2 port, when TURN ON is selected for the AUTO SEARCH item in the OPTION menu (37), the projector will check the S-VIDEO port first. If no input is detected at the port, the projector will check the VIDEO port.



Searching an input signal

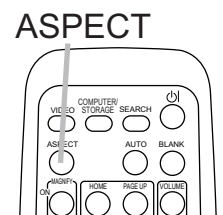
1. Press the SEARCH button on the remote control.
 - The projector will start to check its input ports in order to find any input signals. When an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected before the operation.

COMPUTER IN1 → COMPUTER IN2
 ↑ VIDEO ← S-VIDEO ←



Selecting an aspect ratio

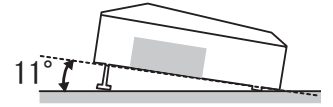
1. Press the ASPECT button on the remote control.
 - Each time you press the button, the projector switches the mode for aspect ratio in turn.
 - For a PC signal
 - NORMAL → 4:3 → 16:9 → SMALL
 - ↑
 - For a video signal, s-video signal or component video signal
 - 4:3 → 16:9 → 14:9 → SMALL
 - ↑
 - For no signal
 - 4:3 (fixed)
 - The ASPECT button does not work when no proper signal is inputted.
 - The NORMAL mode keeps the original aspect ratio setting.
 - Performing the automatic adjustment initializes the aspect ratio setting.



Adjusting the projector's elevator

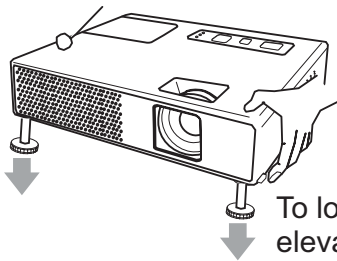
When the place to put the projector is slightly uneven to the left or right, use the elevator feet to place the projector horizontally.

Using the feet can also tilt the projector in order to project at a suitable angle to the screen, elevating the front side of the projector within 11 degrees.

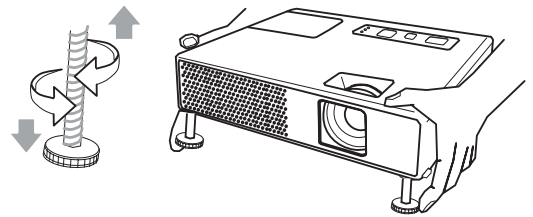


This projector has 2 elevator feet and 2 elevator knobs. An elevator foot is adjustable while pulling up the elevator knob on the same side as it.

1. Holding the projector, pull the elevator knobs up to loose the elevator feet.
2. Position the front side of the projector to the desired height.
3. Release the elevator knobs in order to lock the elevator feet.
4. After making sure that the elevator feet are locked, put the projector gently.
5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.



To loose an elevator foot, pull up the elevator knob on the same side as it.



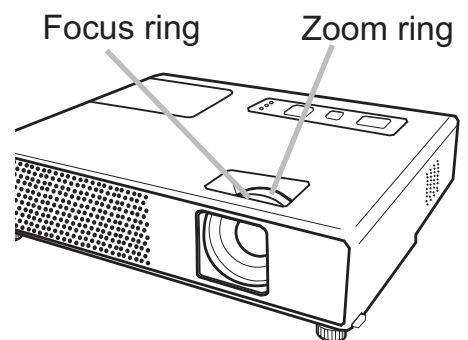
To finely adjust, twist the foot.

⚠ CAUTION ▶ Do not handle the elevator knobs without holding the projector, since the projector may drop down.

▶ Do not tilt the projector other than it elevating its front within 11 degrees using the adjuster feet. A tilt of the projector exceeding the restriction could cause malfunction or shortening the lifetime of consumables, or the projector itself.

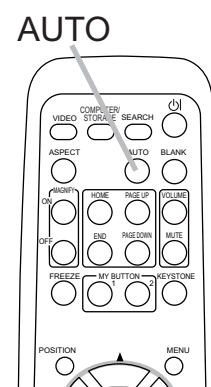
Adjusting the zoom and focus

1. Use the zoom ring to adjust the screen size.
2. Use the focus ring to focus the picture.



Using the automatic adjustment feature

1. Press the AUTO button on the remote control.



○ For a PC signal

The vertical position, the horizontal position, the horizontal phase and the horizontal size will be automatically adjusted. And the aspect ratio will be automatically set to default. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.

○ For a video signal, s-video signal or component video signal

The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📖29).

The vertical position, horizontal position and aspect ratio will be automatically set to the default. For a component video signal, also the horizontal phase will be automatically set to the default.

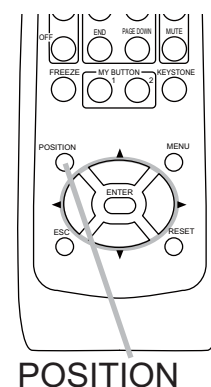
- The automatic adjustment operation requires about 10 seconds. Also please note that it may not function correctly with some input. When this function is performed for a video signal, a certain extra such as a line may appear outside a picture.

Adjusting the position

1. Press the POSITION button on the remote control.
2. Use the ▲/▼/◀/▶ cursor buttons to adjust the picture position.

When you want to reset the operation, press the RESET button on the remote control during the operation.

To complete this operation, press the POSITION button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.



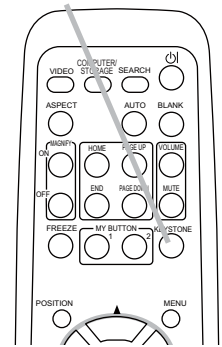
- When this function is performed on a video signal, s-video signal or component video signal, some image such as an extra-line may appear at outside of the picture.
- When this function is performed on a video signal, s-video signal, or component video signal, the range of this adjustment depends on the OVER SCAN in the IMAGE menu (📖26) setting. It is not possible to adjust when the OVER SCAN is set to 10.

Correcting the keystone distortions

1. Press the KEYSTONE button on the remote control. A dialog will appear on the screen to aid you in correcting the distortion.
2. Use the ▲/▼ cursor buttons to select the AUTO or MANUAL operation, and press the ► button to perform the following.
 - (1) The AUTO executes automatic vertical keystone correction.
 - (2) The MANUAL displays a dialog for keystone correction. Use the ▲/▼ buttons for adjustment.

To close the dialog and complete this operation, press the KEYSTONE button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.

KEYSTONE

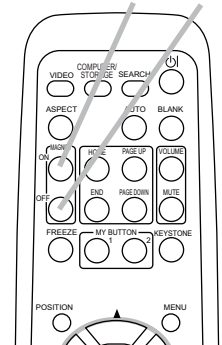


- The adjustable range of this correction will vary among inputs. For some input, this function may not work well.
- When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly.
- When the zoom adjustment is set to the TELE (telephoto focus), the automatic keystone distortion correction may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible.
- When the projector is placed on the level (about $\pm 0^\circ$), the automatic keystone distortion correction may not work.
- When the projector is inclined to near ± 30 degree or over, this function may not work well.
- This function will be unavailable when Transition Detector is on (📖46).

Using the magnify feature

1. Press the ON button of MAGNIFY on the remote control.
 - The “MAGNIFY” indication will appear on the screen (although the indication will disappear in several seconds with no operation), and the projector will go into the MAGNIFY mode.

MAGNIFY ON/OFF



2. Use the ▲/▼ cursor buttons to adjust the zoom level.
 - To move the zoom area, press the POSITION button in the MAGNIFY mode, then use the ▲/▼/◀/▶ cursor buttons to move the area. And to finalize the zoom area, press the POSITION button again.
 - To exit from the MAGNIFY mode and restore the screen to normal, press the OFF button of MAGNIFY on the remote control.

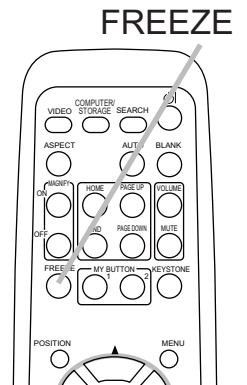
- The projector automatically exits from the MAGNIFY mode when the input signal is changed, or when the display condition is changed.
- Although in the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exits from the MAGNIFY mode.

NOTE • The zoom level can be finely adjusted. Closely watch the screen to find the level you want.

Freezing the screen

- 1 Press the FREEZE button on the remote control.
 - The “FREEZE” indication will appear on the screen (although the indication will not appear when the TURN OFF is selected to the MESSAGE item of the SCREEN menu (📖36)), and the projector will go into the FREEZE mode.

To exit the FREEZE mode and restore the screen to normal, press the FREEZE button again.



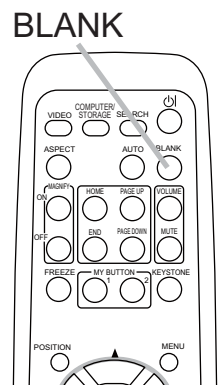
- The projector automatically exits from the FREEZE mode when one of the projector’s buttons or remote control buttons of STANDBY/ON, SEARCH, COMPUTER/STORAGE, VIDEO, BLANK, AUTO, VOLUME, MUTE, KEYSTONE, MENU, MAGNIFY and MY BUTTON1/2(except MyMemory or PICTURE MODE is assigned to) (📖39) is pressed.
- If the projector continues projecting a still image for a long time, the LCD panel might possibly be burned in. Do not leave the projector in the FREEZE mode for too long.

Temporarily blanking the screen

- 1 Press the BLANK button on the remote control.
 - The blank screen will be displayed instead of the screen of input signal. Please refer to the BLANK item in the SCREEN menu (📖33).

To exit from the blank screen and return to the input signal screen, press the BLANK button again.

- The projector automatically returns to the input signal screen when one of the projector’s buttons or the remote control buttons (except ASPECT, POSITION or FREEZE button, also except MY BUTTON1/2 if AUTO KEYSTONE or MyMemory or PICTURE MODE is assigned on these buttons (📖39)) is pressed.

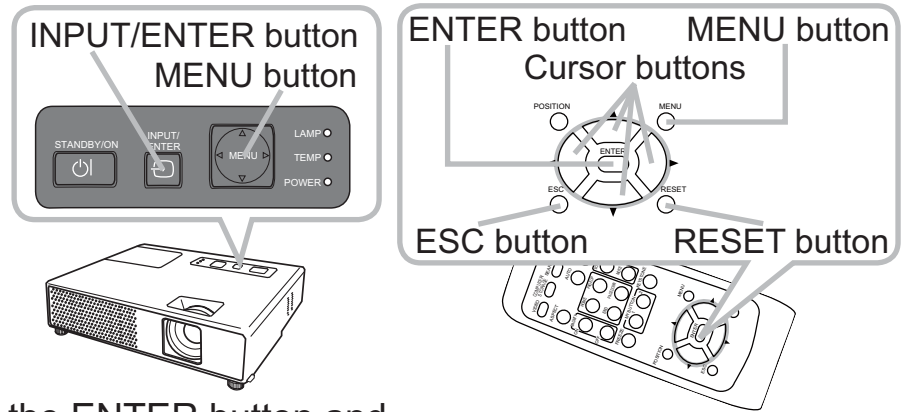


NOTE • The sound is not connected with the blank screen function. If necessary, set the volume or mute first.

Using the menu function

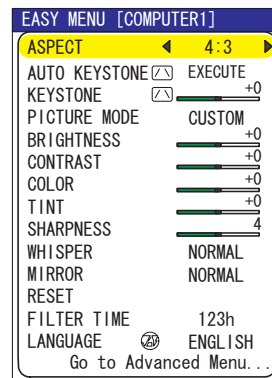
This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION and EASY MENU. EASY MENU consists of functions often used, and the other menus are classified into each purpose. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

1. Press the MENU button on the remote control or the projector. The Advanced MENU, or EASY MENU that has priority just after powered on, will appear. While the projector is displaying any menu, the INPUT/ENTER button on the projector works as the ENTER button and the MENU button on the projector works as the cursor buttons.

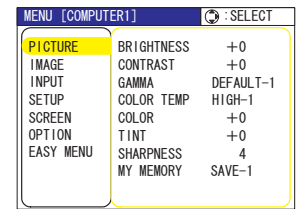


In the EASY MENU

2. If you want to change it to the Advanced Menu, select the "Go to Advanced Menu..."
3. Use the ▲/▼ cursor buttons to select an item to operate.
4. Use the ◀/▶ cursor buttons to operate the item.



EASY MENU



Advanced MENU

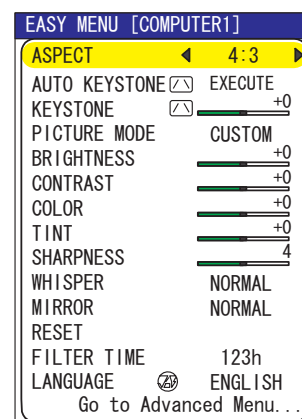
In the Advanced MENU





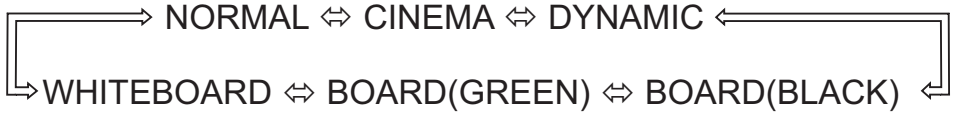
2. Use the ▲/▼ cursor buttons to select a menu. If you want to change it to the EASY MENU, select the EASY MENU. Then press the ▶ cursor button, or the ENTER button to select an item. The lower layer menu of the selected item will appear.
3. Use the ▲/▼ cursor buttons to select an item to operate. Then press the ▶ cursor button, or the ENTER button to progress. The operation menu of the selected item will appear.
4. Use the ▲/▼ cursor buttons to operate the item. Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed. When you want to reset the operation, press the RESET button on the remote control during the operation. Note that some items (ex. LANGUAGE, H PHASE, VOLUME) cannot be reset. In the Advanced Menu, when you want to return to the previous display, press the ◀ cursor button, or the ESC button on the remote control.
5. Press the MENU button on the remote control again to close the menu and complete this operation. Even if you do not do anything, the dialog will automatically disappear after about 10 seconds.

EASY MENU

From the EASY MENU, items shown in the table below can be performed.

Select an item using the ▲/▼ cursor buttons. Then perform it according to the following table.



Item	Description																					
ASPECT	Using the ◀/▶ buttons switches the mode for aspect ratio. See the ASPECT item in IMAGE menu (📖26).																					
AUTO KEYSTONE EXECUTE 	Using the ▶ button executes the auto keystone function. See the AUTO KEYSTONE  EXECUTE item in SETUP menu (📖31).																					
KEYSTONE 	Using the ◀/▶ buttons corrects the vertical keystone distortion. See the KEYSTONE  item in SETUP menu (📖31).																					
PICTURE MODE	<p>Using the ◀/▶ buttons switches the picture mode. The picture modes are combinations of GAMMA and COLOR TEMP settings. Choose a suitable mode according to the projected source.</p> <p>  </p> <table border="1"> <thead> <tr> <th></th> <th>COLOR TEMP</th> <th>GAMMA</th> </tr> </thead> <tbody> <tr> <td>NORMAL</td> <td>MID DEFAULT</td> <td>#1 DEFAULT</td> </tr> <tr> <td>CINEMA</td> <td>LOW DEFAULT</td> <td>#2 DEFAULT</td> </tr> <tr> <td>DYNAMIC</td> <td>HIGH DEFAULT</td> <td>#3 DEFAULT</td> </tr> <tr> <td>BOARD(BLACK)</td> <td>Hi-BRIGHT-1 DEFAULT</td> <td>#4 DEFAULT</td> </tr> <tr> <td>BOARD(GREEN)</td> <td>Hi-BRIGHT-2 DEFAULT</td> <td>#4 DEFAULT</td> </tr> <tr> <td>WHITEBOARD</td> <td>MID DEFAULT</td> <td>#5 DEFAULT</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • When the combination of GAMMA and COLOR TEMP differs from pre-assigned modes above, the display on the menu for the PICTURE MODE is “CUSTOM”. Please refer to the GAMMA (📖23) and COLOR TEMP (📖24) items in PICTURE menu. • When this function is performed, a certain extra such as a line may appear. 		COLOR TEMP	GAMMA	NORMAL	MID DEFAULT	#1 DEFAULT	CINEMA	LOW DEFAULT	#2 DEFAULT	DYNAMIC	HIGH DEFAULT	#3 DEFAULT	BOARD(BLACK)	Hi-BRIGHT-1 DEFAULT	#4 DEFAULT	BOARD(GREEN)	Hi-BRIGHT-2 DEFAULT	#4 DEFAULT	WHITEBOARD	MID DEFAULT	#5 DEFAULT
	COLOR TEMP	GAMMA																				
NORMAL	MID DEFAULT	#1 DEFAULT																				
CINEMA	LOW DEFAULT	#2 DEFAULT																				
DYNAMIC	HIGH DEFAULT	#3 DEFAULT																				
BOARD(BLACK)	Hi-BRIGHT-1 DEFAULT	#4 DEFAULT																				
BOARD(GREEN)	Hi-BRIGHT-2 DEFAULT	#4 DEFAULT																				
WHITEBOARD	MID DEFAULT	#5 DEFAULT																				

(continued on next page)

EASY MENU (continued)

Item	Description
BRIGHTNESS	Using the ◀/▶ buttons adjusts the brightness. See the BRIGHTNESS item in PICTURE menu (📖23).
CONTRAST	Using the ◀/▶ buttons adjusts the contrast. See the CONTRAST item in PICTURE menu (📖23).
COLOR	Using the ◀/▶ buttons adjusts the strength of whole color. See the COLOR item in PICTURE menu (📖24).
TINT	Using the ◀/▶ buttons adjusts the tint. See the TINT item in PICTURE menu (📖24).
SHARPNESS	Using the ◀/▶ buttons adjusts the sharpness. See the SHARPNESS item in PICTURE menu (📖24).
WHISPER	Using the ◀/▶ buttons turns off/on the whisper mode. See the WHISPER item in SETUP menu (📖32).
MIRROR	Using the ◀/▶ buttons switches the mode for mirror status. See the MIRROR item in SETUP menu (📖32).
RESET	Performing this item resets all of the EASY MENU items except the FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting the RESET using the ▲ button performs resetting.
FILTER TIME	Performing this item resets the filter time which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting the RESET using the ▲ button performs resetting. See the FILTER TIME item in OPTION menu (📖38).
LANGUAGE	Using the ◀/▶ buttons changes the display language. See the LANGUAGE item in SCREEN menu (📖33).
Go to Advanced Menu...	Select “Go to Advanced Menu...” on the menu, and press the ▶ or ENTER button to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN or OPTION.

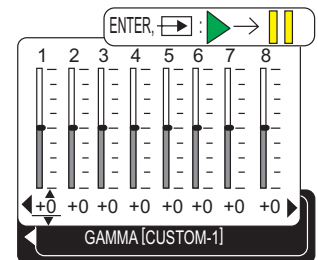
PICTURE Menu

From the PICTURE menu, items shown in the table below can be performed.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or ENTER button to execute the item. Then perform it according to the following table.

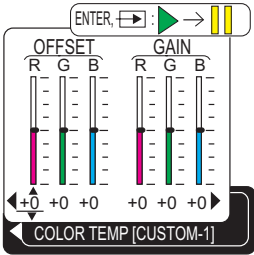
MENU [COMPUTER1]		⊙:SELECT
PICTURE	BRIGHTNESS	+0
IMAGE	CONTRAST	+0
INPUT	GAMMA	DEFAULT-1
SETUP	COLOR TEMP	HIGH-1
SCREEN	COLOR	+0
OPTION	TINT	+0
EASY MENU	SHARPNESS	4
	MY MEMORY	SAVE-1

Item	Description
BRIGHTNESS	Using the ▲/▼ buttons adjusts the brightness. Light ⇔ Dark
CONTRAST	Using the ▲/▼ buttons adjusts the contrast. Strong ⇔ Weak
GAMMA	<p>Using the ▲/▼ buttons switches the gamma mode.</p> <p>#1 DEFAULT ⇔ #1 CUSTOM ⇔ #2 DEFAULT ⇔ #2 CUSTOM ⇔ #3 DEFAULT ⇕ #5 CUSTOM ⇔ #5 DEFAULT ⇔ #4 CUSTOM ⇔ #4 DEFAULT ⇔ #3 CUSTOM</p> <p>To adjust CUSTOM</p> <p>Selecting a mode whose name includes CUSTOM and then pressing the ► button or the ENTER button displays a dialog to aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones.</p> <p>Choose an item using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons.</p> <p>You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below.</p> <p>No pattern ⇔ Gray scale of 9 steps ⇐ ⇑ ⇐ Ramp ⇔ Gray scale of 15 steps</p> <p>The eight equalizing bars correspond to eight tone levels of the test pattern except the darkest in the left end. If you want to adjust the 2nd tone from left end on the test pattern (Gray scale of 9 steps), use the equalizing adjustment bar "1". The darkest tone at the left end of the test pattern cannot be controlled with any of equalizing adjustment bar.</p> <ul style="list-style-type: none"> When this function is performed, lines or other distortion may appear.



(continued on next page)

PICTURE Menu (continued)

Item	Description
<p>COLOR TEMP</p>	<p>Using the ▲/▼ buttons switches the color temperature mode.</p> <p>→ HIGH DEFAULT ⇔ HIGH CUSTOM ⇔ MID DEFAULT ⇔ MID CUSTOM ← ↳ LOW DEFAULT ⇔ LOW CUSTOM ⇔ Hi-BRIGHT-1 DEFAULT ⇔ Hi-BRIGHT-1 CUSTOM ← ↳ Hi-BRIGHT-2 DEFAULT ⇔ Hi-BRIGHT-2 CUSTOM ←</p> <p>To adjust CUSTOM</p> <p>Selecting a mode whose name includes CUSTOM and then pressing the ► button or the ENTER button displays a dialog to aid you in adjusting the OFFSET and GAIN of the selected mode.</p> <p>OFFSET adjustments change the color intensity on the whole tones of the test pattern.</p> <p>GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern.</p> <p>Choose an item using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons.</p> <p>You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below.</p> <p>No pattern ⇔ Gray scale of 9 steps ⇨ ⇩ Ramp ⇔ Gray scale of 15 steps</p> <ul style="list-style-type: none"> • When this function is performed, lines or other distortion may appear. 
<p>COLOR</p>	<p>Using the ▲/▼ buttons adjusts the strength of whole color.</p> <p>Strong ⇔ Weak</p> <ul style="list-style-type: none"> • This item can be selected only for a video signal, s-video or component video signal.
<p>TINT</p>	<p>Using the ▲/▼ buttons adjusts the tint.</p> <p>Greenish ⇔ Reddish</p> <ul style="list-style-type: none"> • This item can be selected only for a video signal, s-video or component video signal.
<p>SHARPNESS</p>	<p>Using the ▲/▼ buttons adjusts the sharpness.</p> <p>Strong ⇔ Weak</p> <ul style="list-style-type: none"> • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.

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PICTURE Menu (continued)






Item	Description
<p>MY MEMORY</p>	<p>This projector has 4 memories for adjustment data (for all the items of the PICTURE menu). Selecting a function using the ▲/▼ buttons and pressing the ► or ENTER button performs each function.</p> <div style="text-align: center;">  </div> <p><u>LOAD1, LOAD2, LOAD3, LOAD4</u></p> <p>Performing a LOAD function loads the data from the memory linked in the number included in the function's name, and adjusts the picture automatically depending on the data.</p> <ul style="list-style-type: none"> • The LOAD functions whose linked memory has no data are skipped. • Remember that the current adjusted condition will be lost by loading data. If you want to keep the current adjustment, please save it before performing a LOAD function. • There may be some noise and the screen may flicker for a moment when loading data. This is not malfunction. • The LOAD functions can be also performed by the MY MEMORY button which can be set by the MY BUTTON item in OPTION menu (📖 29). <p><u>SAVE1, SAVE2, SAVE3, SAVE4</u></p> <p>Performing a SAVE function saves the current adjustment data into the memory linked in the number included in the function's name.</p> <ul style="list-style-type: none"> • Remember that the current data being stored of a memory will be lost by saving a new data into the memory.

IMAGE Menu

From the IMAGE menu, items shown in the table below can be performed.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPUTER1]		◁:SELECT
PICTURE	ASPECT	4:3
IMAGE	OVER SCAN	5
INPUT	V POSITION	25
SETUP	H POSITION	142
SCREEN	H PHASE	16
OPTION	H SIZE	1344
EASY MENU	AUTO ADJUST EXECUTE	

Item	Description
ASPECT	<p>Using the ▲/▼ buttons switches the mode for aspect ratio.</p> <p>For a PC signal NORMAL ⇔ 4:3 ⇔ 16:9 ⇔ SMALL </p> <p>For a Video signal, s-video signal or component video signal 4:3 ⇔ 16:9 ⇔ 14:9 ⇔ SMALL </p> <p>For no signal 4:3 (fixed)</p> <ul style="list-style-type: none"> • This item can be selected only for a proper signal. • The NORMAL mode keeps the original aspect ratio setting. • Performing the automatic adjustment initializes the aspect ratio setting.
OVER SCAN	<p>Using the ▲/▼ buttons adjusts the over-scan ratio. Large (It reduces picture) ⇔ Small (It magnifies picture)</p> <ul style="list-style-type: none"> • This item can be selected only for a video, s-video and component video signal. • When this adjustment is too large, certain degradation may appear at the frame area of the picture. In such a case, please adjust small.
V POSITION	<p>Using the ▲/▼ buttons adjusts the vertical position. Up ⇔ Down</p> <ul style="list-style-type: none"> • Over-adjusting the vertical position may cause noise to appear on the screen. If this occurs please reset the vertical position to the default setting. Pressing the RESET button when the V POSITION is selected will reset the V POSITION to the default setting. • When this function is performed on a video signal, s-video signal, or component video signal, the range of this adjustment depends on the OVER SCAN (above) setting. It is not possible to adjust when the OVER SCAN is set to 10.
H POSITION	<p>Using the ▲/▼ buttons adjusts the horizontal position. Left ⇔ Right</p> <ul style="list-style-type: none"> • Over-adjusting the horizontal position may cause noise to appear on the screen. If this occurs please reset the horizontal position to the default setting. Pressing the RESET button when the H POSITION is selected will reset the H POSITION to the default setting. • When this function is performed on a video signal, s-video signal, or component video signal, the range of this adjustment depends on the OVER SCAN (above) setting. It is not possible to adjust when the OVER SCAN is set to 10.

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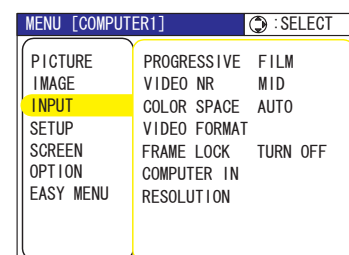
IMAGE Menu (continued)

Item	Description
H PHASE	Using the ▲/▼ buttons adjusts the horizontal phase to eliminate flicker. Right ⇔ Left • This item can be selected only for a computer signal or component video signal.
H SIZE	Using the ▲/▼ buttons adjusts the horizontal size. Large ⇔ Small • This item can be selected only for a computer signal. • When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment by pressing the RESET button during this operation.
AUTO ADJUST EXECUTE	Selecting this item performs the automatic adjustment feature. For a PC signal The vertical position, the horizontal position, the horizontal phase and the horizontal size (📖40) will be automatically adjusted. And the aspect ratio will be automatically set to the default. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting. For a video signal, s-video signal or component video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO mode is selected to the VIDEO FORMAT item in INPUT menu (📖29). The vertical position, horizontal position and aspect ratio will be automatically set to the default. For a component video signal, also the horizontal phase will be automatically set to the default. • The automatic adjustment operation requires about 10 seconds. Also please note that it may not function correctly with some input.

INPUT Menu

From the INPUT menu, items shown in the table below can be performed.

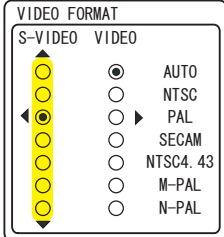
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or ENTER button to execute the item. Then perform it according to the following table.



Item	Description
PROGRESSIVE	<p>Using the ▲/▼ buttons switches the progress mode. TV ⇔ FILM ⇔ TURN OFF</p> <ul style="list-style-type: none"> This function is performed only for an interlaced signal of a video, s-video or component video of 525i (480i) or 625i (576i) signal. When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select TURN OFF, even though the screen image may lose the sharpness.
VIDEO NR	<p>Using the ▲/▼ buttons switches the noise reduction mode. HIGH ⇔ MID ⇔ LOW</p> <ul style="list-style-type: none"> This function performs only for a video, s-video or component video of 525i(480i) or 625i(576i) signal. When this function is excessive, it may cause a certain degradation of the picture.
COLOR SPACE	<p>Using the ▲/▼ buttons switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601</p> <p style="text-align: center;">↑—————↑</p> <ul style="list-style-type: none"> This item can be selected only for a computer signal or component video signal. The AUTO mode automatically selects the optimum mode. The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO.

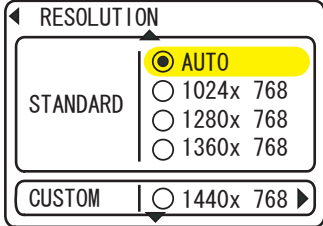

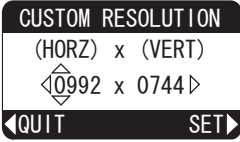

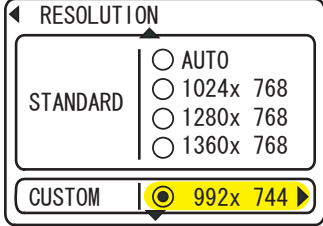
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INPUT Menu (continued)

Item	Description
<p>VIDEO FORMAT</p>	<p>Set the video format for the s-video port and video port. (1) Use the ◀/▶ buttons to select the input port. (2) Using the ▲/▼ buttons switches the mode for video format.</p> <p>AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ↗ N-PAL ⇔ M-PAL ⇔ NTSC4.43 ↖</p> <ul style="list-style-type: none"> • This item is performed only for a video signal from the VIDEO port or the S-VIDEO port. • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well for some signals. If the picture becomes unstable (e.g. an irregular picture, lack of color), please select the mode according to the input signal. 
<p>FRAME LOCK</p>	<p>Using the ▲/▼ buttons turns the frame lock function on/off. TURN ON ⇔ TURN OFF</p> <ul style="list-style-type: none"> • This item can be performed only on a computer signal with a vertical frequency of 50 to 60 Hz. • When the TURN ON is selected, a moving pictures are displayed more smoothly. • This function may cause a certain degradation of the picture. In such a case, please select the TURN OFF.
<p>COMPUTER IN</p>	<p>Set the computer input signal type for the ports of COMPUTER. (1) Use the ◀/▶ buttons to select a COMPUTER port to be set. COMPUTER IN1 ⇔ COMPUTER IN2 (2) Use the ▲/▼ buttons to select the computer input signal type. AUTO ⇔ SYNC ON G OFF</p> <p>Sync on Green signal can be supported, if AUTO is selected.</p> <ul style="list-style-type: none"> • When the AUTO is selected, the picture may be distorted with certain input signals. In such a case, remove the signal connector first and select SYNC ON G OFF on the menu, and then reconnect the signal. • Component signal can be supported through COMPUTER IN1 port, if AUTO is selected for the COMPUTER IN1 port.

(continued on next page)

INPUT Menu (continued)



Item	Description
<p>RESOLUTION</p>	<p>The resolution for the COMPUTER IN1 and COMPUTER IN2 input signals can be set on this projector.</p> <p>(1) In the INPUT menu select the RESOLUTION using the ▲/▼ buttons and press the ► button. The RESOLUTION menu will be displayed.</p>  <p>(2) In the RESOLUTION menu, select the resolution you wish to display using the ▲/▼ buttons. Selecting AUTO will set a resolution appropriate to the input signal.</p> <p>(3) Pressing the ► or ENTER button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size and automatically select an aspect ratio. The INFORMATION dialog (41) will be displayed.</p>  <p>(4) To set a custom resolution use the ▲/▼ buttons to select the CUSTOM and the CUSTOM RESOLUTION box will be displayed. Set the horizontal (HORZ) and vertical (VERT) resolutions using the ▲/▼/◀/▶ buttons. Although not all resolutions are guaranteed.</p>  <p>(5) To save the setting place the cursor on the right-most digit and press the ► button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted and an aspect ratio will be automatically selected. After the INFORMATION (41) dialog has displayed for about 10 seconds the screen will return to the RESOLUTION menu displaying the changed resolution.</p>  <p>(6) To revert back to the previous resolution without saving changes place the cursor on the left-most digit and press the ◀ button. The screen will then return to the RESOLUTION menu displaying the previous resolution.</p>  <p>• For some pictures, this function may not work well.</p>

SETUP Menu

From the SETUP menu, items shown in the table below can be performed.


Select an item using the ▲/▼ cursor buttons, and press the ► cursor button on the ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPUTER1]		:SELECT
PICTURE	AUTO KEYSTONE	EXECUTE
IMAGE	KEYSTONE	+0
INPUT	WHISPER	NORMAL
SETUP	MIRROR	NORMAL
SCREEN	VOLUME	16
OPTION	AUDIO	
EASY MENU		

Item	Description
AUTO KEYSTONE EXECUTE 	<p>Selecting this item performs the automatic keystone distortion correction. Projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle by itself.</p> <p>This function will be executed only once when selected in the menu. When the slant of the projector is changed, execute this function again.</p> <ul style="list-style-type: none"> • The adjustable range for correction will vary among inputs. For some input, this function may not work well. • When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly. • When the zoom adjustment is set to the TELE (telephoto focus), this function may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible. • When the projector is placed on the level (about $\pm 0^\circ$), this function may not work. • When the projector is inclined to near ± 30 degree or over, this function may not work well. • This function will be unavailable when the Transition Detector is on (46).
KEYSTONE 	<p>Using the ▲/▼ buttons corrects the vertical keystone distortion.</p> <p>Shrink the top of the image ⇔ Shrink the bottom of the image</p> <ul style="list-style-type: none"> • The adjustable range of this function will vary with the type of input signal. For some input, this function may not work well. • This function will be unavailable when the Transition Detector is on (46).

(continued on next page)

SETUP Menu (continued)

Item	Description																				
<p>WHISPER</p>	<p>Using the ▲/▼ buttons turns off/on the whisper mode. NORMAL ⇔ WHISPER</p> <ul style="list-style-type: none"> • When the WHISPER is selected, acoustic noise and screen brightness are reduced. 																				
<p>MIRROR</p>	<p>Using the ▲/▼ buttons switches the mode for mirror status.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p>NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&V:INVERT</p> <p style="text-align: center;">↑—————↑</p> <p>If the Transition Detector is TURN ON and MIRROR status is changed, Transition Detector Alarm (📖46) will be displayed when projector is restarted after the power switch is turned off.</p>																				
<p>VOLUME</p>	<p>Using the ▲/▼ buttons adjusts the volume. High ⇔ Low</p>																				
<p>AUDIO</p>	<p>Allocates the audio ports.</p> <p>(1) Choose a picture input port using the ▲/▼ buttons.</p> <p>(2) Select the audio port to be interlocked with the input port using the ◀/▶ buttons.</p> <p>1 ⇔ 2 ⇔ ✕</p> <ul style="list-style-type: none"> • When ✕ is selected to an input port, any audio ports do not work interlocking with the input port, and any items in AUDIO menu are invalid. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>AUDIO</p> <p>◀ QUIT</p> <p style="text-align: center;">AUDIO IN</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">2</td> <td style="width: 10%; text-align: center;">✕</td> </tr> <tr> <td>COMPUTER1</td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>COMPUTER2</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>S-VIDEO</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>VIDEO</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </table> </div>		1	2	✕	COMPUTER1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	COMPUTER2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	S-VIDEO	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	VIDEO	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	1	2	✕																		
COMPUTER1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>																		
COMPUTER2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																		
S-VIDEO	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																		
VIDEO	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>																		

SCREEN Menu

From the SCREEN menu, items shown in the table below can be performed.

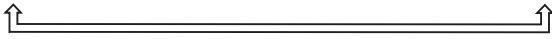
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPUTER1]		SELECT
PICTURE	LANGUAGE	ENGLISH
IMAGE	MENU POSITION	
INPUT	BLANK	BLACK
SETUP	START UP	ORIGINAL
SCREEN	MyScreen	
OPTION	MyScreen Lock	TURN OFF
EASY MENU	MESSAGE	TURN ON
	SOURCE NAME	

Item	Description								
LANGUAGE	<p>Using the ▲/▼ buttons switches the OSD (On Screen Display) language.</p> <p>ENGLISH ⇄ FRANÇAIS ⇄ DEUTSCH ⇄ ESPAÑOL ⇄ ITALIANO</p> <p>NORSK ⇄ NEDERLANDS ⇄ PORTUGUÊS ⇄ 日本語</p> <p>简体中文 ⇄ 繁體中文 ⇄ 한글 ⇄ SVENSKA ⇄ РУССКИЙ</p> <p>SUOMI ⇄ POLSKI ⇄ TÜRKÇE</p>								
MENU POSITION	<p>Using the ▲/▼/◀/▶ buttons adjusts the menu position.</p> <p>To quit the operation, press the MENU button on the remote control or keep no operation for about 10 seconds.</p>								
BLANK	<p>Using the ▲/▼ buttons switches the mode for the blank screen. The blank screen is a screen for the temporarily blanking feature (📖19). It is displayed by pressing the BLANK button.</p> <p>MyScreen ⇄ ORIGINAL ⇄ BLUE ⇄ WHITE ⇄ BLACK</p> <table border="1"> <thead> <tr> <th></th> <th>Feature</th> </tr> </thead> <tbody> <tr> <td>MyScreen</td> <td>Screen can be registered by the MyScreen item (📖35).</td> </tr> <tr> <td>ORIGINAL</td> <td>Screen preset as the standard screen.</td> </tr> <tr> <td>BLUE, WHITE, BLACK</td> <td>Plain screens in each color.</td> </tr> </tbody> </table> <p>• To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the plain black screen after several minutes.</p>		Feature	MyScreen	Screen can be registered by the MyScreen item (📖35).	ORIGINAL	Screen preset as the standard screen.	BLUE, WHITE, BLACK	Plain screens in each color.
	Feature								
MyScreen	Screen can be registered by the MyScreen item (📖35).								
ORIGINAL	Screen preset as the standard screen.								
BLUE, WHITE, BLACK	Plain screens in each color.								


(continued on next page)

SCREEN Menu (continued)

Item	Description								
<p>START UP</p>	<p>Using the ▲/▼ buttons switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected.</p>								
	<p>MyScreen ⇔ ORIGINAL ⇔ TURN OFF</p> 								
	<table border="1"> <thead> <tr> <th></th> <th>Feature</th> </tr> </thead> <tbody> <tr> <td>MyScreen</td> <td>Screen can be registered by the MyScreen item (📖35).</td> </tr> <tr> <td>ORIGINAL</td> <td>Screen preset as the standard screen.</td> </tr> <tr> <td>TURN OFF</td> <td>Plain black screen.</td> </tr> </tbody> </table>		Feature	MyScreen	Screen can be registered by the MyScreen item (📖35).	ORIGINAL	Screen preset as the standard screen.	TURN OFF	Plain black screen.
		Feature							
	MyScreen	Screen can be registered by the MyScreen item (📖35).							
ORIGINAL	Screen preset as the standard screen.								
TURN OFF	Plain black screen.								
<p>• To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the BLANK screen (📖33) after several minutes. If also the BLANK screen is the MyScreen or ORIGINAL, the plain black screen is instead used.</p>									
<p>• When the TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (📖43), the START UP is fixed to MyScreen.</p>									

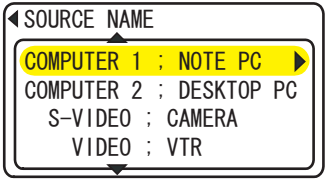
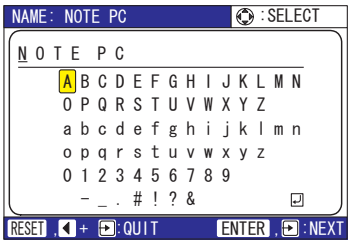
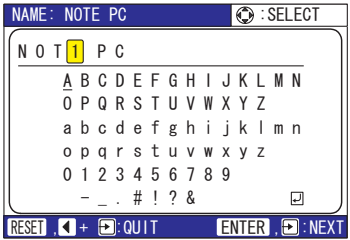
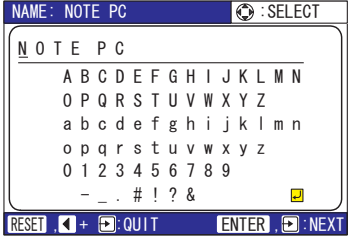

(continued on next page)

SCREEN Menu (continued)

Item	Description
<p>MyScreen</p>	<p>This item allows you to capture an image for use as a MyScreen image which can be used as the BLANK screen and START UP screen. Display the image you want to capture before executing the following procedure.</p> <ol style="list-style-type: none"> <p>Selecting this item displays a dialog titled “MyScreen”. It will ask you if you start capturing an image from the current screen.</p>  <p>Please wait for the target image to be displayed, and press the ENTER button when the image is displayed. The image will freeze and the frame for capturing will appear. To stop performing, press the RESET or ESC button.</p> <p>Using the ▲/▼/◀/▶ buttons adjusts the frame position.</p> <p>Please move the frame to the position of the image which you want to use. The frame may not be able to be moved for some input signals. To start registration, press the ENTER button. To restore the screen and return to the previous dialog, press the RESET or ESC button. Registration takes several minutes.</p> <p>When the registration is completed, the registered screen and the following message is displayed for several seconds: “MyScreen registration is finished.”</p> <p>If the registration failed, the following message is displayed: “A capturing error has occurred. Please try again.”</p> <ul style="list-style-type: none"> • This function cannot be selected when the TURN ON is selected to the MyScreen Lock item (below). • This function cannot be selected when the TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (43).
<p>MyScreen Lock</p>	<p>Using the ▲/▼ buttons turns on/off the MyScreen lock function. TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, the MyScreen item is locked. Use this function for protecting the current MyScreen.</p> <ul style="list-style-type: none"> • This function cannot be selected when the TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (43).

(continued on next page)


SCREEN Menu (continued)



Item	Description
<p>MESSAGE</p>	<p>Using the ▲/▼ buttons turns on/off the message function. TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, the following message function works. “AUTO IN PROGRESS” while automatically adjusting “NO INPUT IS DETECTED” “SYNC IS OUT OF RANGE” “Searching...” while searching for the input “Detecting...” while an input signal is detected</p> <p>The indication of the input signal displayed by changing The indication of the aspect ratio displayed by changing The indication of the PICTURE MODE displayed by changing The indication of the MY MEMORY displayed by changing The indication of “FREEZE” and “II” while freezing the screen by pressing the FREEZE button.</p> <ul style="list-style-type: none"> • When the TURN OFF is selected, please remember if the picture is freezing. Do not mistake freezing for a malfunction (📖 19).
<p>SOURCE NAME</p>	<p>Each input port for this projector can have a name applied to it.</p> <p>(1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ► button. The SOURCE NAME menu will be displayed.</p>  <p>(2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ► button. Right side of the menu is blank until a name is specified. The SOURCE NAME dialog will be displayed.</p>  <p>(3) The current name will be displayed on the first line. Use the ▲/▼/◀/▶ buttons and the ENTER or INPUT button to select and enter characters. The RESET button can be used to erase 1 character at a time. The name can be a maximum of 16 characters.</p>  <p>(4) To change an already inserted character, press the ▲ button while the cursor is on the [A-N] row to move the cursor to the name displayed on the first line and use the ◀/▶ buttons to select character to be changed. Once a character in the name is selected use the ▼ button to move the cursor back down to the character entry area to select and enter characters as described above.</p>  <p>(5) Select  and press the ENTER or INPUT buttons when finished entering text. To revert to the previous name without saving changes press the ESC or ◀ button and the INPUT button simultaneously.</p>

OPTION Menu

From the OPTION menu, items shown in the table below can be performed.

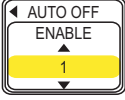
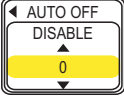
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or ENTER button to execute the item, except for the items LAMP TIME and FILTER TIME. Then perform it according to the following table.

MENU [COMPUTER1]		⊙:SELECT
PICTURE	AUTO SEARCH	TURN ON
IMAGE	AUTO KEYSTONE 	TURN ON
INPUT	AUTO ON	TURN ON
SETUP	AUTO OFF	0 min
SCREEN	LAMP TIME	1234 h
OPTION	FILTER TIME	123 h
EASY MENU	MY BUTTON	
	SERVICE	
	SECURITY	

Item	Description
AUTO SEARCH	<p>Using the ▲/▼ buttons turns on/off the automatic signal search function.</p> <p>TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, detecting no signal automatically cycles through input ports in the following order. The search is started from the current port. Then when an input is found, the projector will stop searching and display the image.</p> <pre style="text-align: center;"> COMPUTER IN1 → COMPUTER IN2 ↑ ↓ └── VIDEO ⇔ S-VIDEO ──┘ </pre>
AUTO KEYSTONE 	<p>Using the ▲/▼ buttons turns on/off the automatic keystone function.</p> <p>TURN ON ⇔ TURN OFF</p> <p>TURN ON : Automatic keystone distortion correction will be executed whenever changing the slant of the projector.</p> <p>TURN OFF : This function is disabled. Please execute the AUTO KEYSTONE  EXECUTE in the SETUP Menu for automatic keystone distortion correction.</p> <ul style="list-style-type: none"> • When the projector is suspended from the ceiling this feature will not function properly so select the TURN OFF. • This function will be unavailable when the Transition Detector is on (📖46).
AUTO ON	<p>Using the ▲/▼ buttons turns on/off the AUTO ON function.</p> <p>TURN ON ⇔ TURN OFF</p> <p>When set to the TURN ON, the lamp in projector will be automatically turned on without the usual procedure (📖13), only when the projector is supplied with the power after the power was cut while the lamp was on.</p> <ul style="list-style-type: none"> • This function does not work as long as the power has been supplied to the projector while the lamp is off. • After turning the lamp on by the AUTO ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO OFF function (📖38) is disabled.


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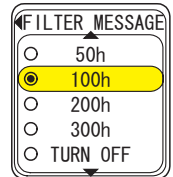
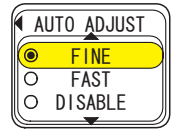
OPTION Menu (continued)

Item	Description
<p>AUTO OFF</p>	<p>Using the ▲/▼ buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE)</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with no-signal or an unsuitable signal reaches at the set time, the projector lamp will be turned off. If one of the projector's buttons or the remote control buttons is pressed or one of the commands (except get commands) is transmitted to the control port during the corresponding time, projector will not be turned off. Please refer to the section "Turning off the power" (📖13).</p>
<p>LAMP TIME</p>	<p>The lamp time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the lamp. Pressing the RESET button or the ► button displays a dialog. To reset the lamp time, select the RESET using the ▲ button. RESET ⇔ CANCEL</p> <ul style="list-style-type: none"> • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp. • For the lamp replacement, see the section "Lamp" (📖48).
<p>FILTER TIME</p>	<p>The filter time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the air filter. Pressing the RESET button or the ► button displays a dialog. To reset the filter time, select the RESET using the ▲ button. RESET ⇔ CANCEL</p> <ul style="list-style-type: none"> • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter. • For the air filter cleaning, see the section "Air filter" (📖50).

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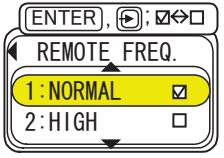
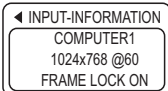
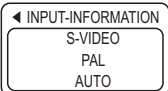

OPTION Menu (continued)

Item	Description
<p>SERVICE (continued)</p>	<p>AUTO ADJUST Using the ▲/▼ buttons enables/disables the automatic adjustment. When DISABLE is selected, the automatic adjustment feature is disabled, although rough adjustment is automatically performed depending on the basic setting.</p> <div style="text-align: center;"> <p>FINE ⇔ FAST ⇔ DISABLE</p>  </div> <p>FINE: Finer tuning including H.SIZE adjustment. FAST: Faster tuning, setting H.SIZE to prearranged data for the input signal</p> <ul style="list-style-type: none"> Depending on conditions, such as input image, signal cable to the projector, environment around the projector, etc., the automatic adjustment may not work correctly. In such a case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually. <p>GHOST</p> <ol style="list-style-type: none"> Select a color element of ghost using the ◀/▶ buttons. Adjust the selected element using the ▲/▼ buttons to disappear ghost. <p>FILTER MESSAGE Use the ▲/▼ button to set the timer for the interval to show the message for cleaning up the air filter.</p> <p>50h ⇔ 100h ⇔ 200h ⇔ 300h ⇔ TURN OFF</p> <p>After selecting “50h”, “100h”, “200h”, or “300h”, the message “REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK” will appear after the timer reaches the interval time set by the menu (📖 52). When the “TURN OFF” is chosen, the air filter cleaning message will not appear.</p> <ul style="list-style-type: none"> Please check and clean the air filter periodically, even if there is no message. If the air filter becomes to be blocked by dust or others, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector. It is recommended to choose “100h” in general. Please be careful with the operating environment of the projector and the condition of the air filter, especially when the “200h”, “300h” or “TURN OFF” is chosen.




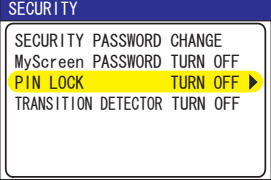



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OPTION Menu (continued)

Item	Description
<p>SERVICE (continued)</p>	<p>KEY LOCK Using the ▲/▼ buttons turns on/off the key lock feature. When TURN ON is selected, the buttons on the projector except the STANDBY/ON button are locked. TURN ON ⇔ TURN OFF</p> <ul style="list-style-type: none"> • Please use to avoid a mischief and touching accidentally. This function does not have any effect on the remote control. <p>REMOTE FREQ. Use the ▲/▼ button to change the Projector's remote sensor setting. 1:NORMAL ⇔ 2:HIGH</p> <p>Items with a checkmark are on. The factory default setting is for both 1:NORMAL and 2: HIGH to be on. If the remote control does not function correctly set this to either only 1 or only 2 (12). Neither can be turned off at the same time.</p>  <p>INFORMATION Selecting this item displays a dialog titled "INPUT INFORMATION". It shows the information about the current input.</p> <div style="display: flex; justify-content: space-around;">    </div> <ul style="list-style-type: none"> • The "FRAME LOCK" message on the dialog means the frame lock function is working. • This item can't be selected for no signal and sync out. <p>FACTORY RESET Selecting RESET using the button ▲ performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME, LANGUAGE and SECURITY are not reset. RESET ⇔ CANCEL</p>

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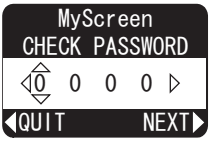
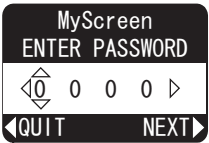
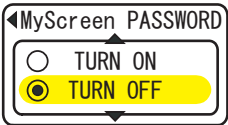
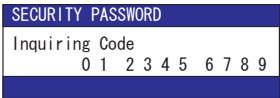
OPTION Menu (continued)

Item	Description
<p>SECURITY</p>	<p>This projector is equipped with security functions. User registration is required before using the security functions. Please contact your local dealer.</p> <p>1. Using Security Features</p> <p>1.1 Inputting the PASSWORD</p> <p>1.1-1 Use the ▲/▼ buttons on the OPTION menu to select SECURITY and press the ► button. The ENTER PASSWORD box will be displayed.</p>  <p>The factory default PASSWORD is 2805. This PASSWORD can be changed (1.2 Changing the PASSWORD).</p> <ul style="list-style-type: none"> It is strongly recommended the factory default PASSWORD to be changed as soon as possible. <p>1.1-2 Use the ▲/▼/◀/▶ buttons to enter the registered PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX and press the ► button to display the SECURITY menu.</p> <p>If an incorrect PASSWORD is input the ENTER PASSWORD BOX will be displayed again. If incorrect PASSWORD is input 3 times the projector will turn off. Afterwards the projector will turn off every time an incorrect PASSWORD is input.</p>  <p>1.2 Changing the PASSWORD</p> <p>1.2-1 Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD BOX.</p>  <p>1.2-2 Use the ▲/▼/◀/▶ buttons to enter the new PASSWORD.</p> <p>1.2-3 Move the cursor to the right side of the ENTER NEW PASSWORD BOX and press the ► button to display the NEW PASSWORD AGAIN BOX, enter the same PASSWORD again.</p>  <p>1.2-4 Move the cursor to the right side of the NEW PASSWORD AGAIN BOX and press the ► button and the NOTE NEW PASSWORD BOX will be displayed for about 20 seconds, please make note of the PASSWORD during this time.</p> <p>Pressing the ENTER button will close the NOTE NEW PASSWORD BOX.</p> <ul style="list-style-type: none"> Please do not forget your PASSWORD. 

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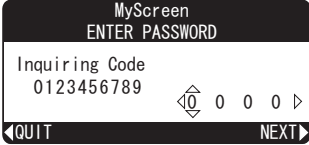
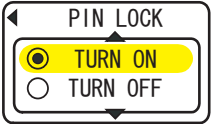
OPTION Menu (continued)

Item	Description
<p>SECURITY (continued)</p>	<p>1.3 If you have forgotten your PASSWORD</p> <p>1.3-1 Follow the procedure in 1.1-1 to display the ENTER PASSWORD BOX.</p> <p>1.3-2 While the ENTER PASSWORD BOX is displayed, press and hold the RESET button for about 3 seconds or press and hold the INPUT and ► buttons on the projector for about 3 seconds</p> <p>The 10 digit Inquiring Code will be displayed.</p> <ul style="list-style-type: none"> • If there is no key input for about 55 seconds while the Inquiring Code is displayed the menu will close. <p>If necessary repeat the process from 1.3-1.</p> <p>1.3-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.</p>
	<p>2. Using the MyScreen PASSWORD Function</p> <p>The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten.</p>
	<p>2.1 Turning on the MyScreen PASSWORD Function</p> <p>2.1-1 Use the ▲/▼ buttons on the SECURITY menu to select MyScreen PASSWORD and press the ► button to display the MyScreen PASSWORD on/off menu.</p> <p>2.2 Setting the PASSWORD</p> <p>2.2-1 Display the MyScreen on/off menu using the procedure in 2.1-1.</p> <p>2.2-2 Use the ▲/▼ buttons on the MyScreen PASSWORD on/off menu to select TURN ON. The ENTER PASSWORD BOX (small) will be displayed.</p> <p>2.2-3 Use the ▲/▼/◀/▶ buttons to enter the PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX (small) and press the ► button to display the CHECK PASSWORD BOX, enter the same PASSWORD again.</p>



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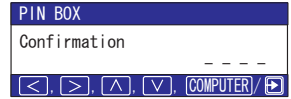
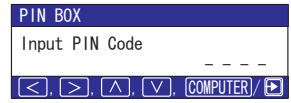
OPTION Menu (continued)

Item	Description
<p>SECURITY (continued)</p>	<p>2.2-4 Move the cursor to the right side of the CHECK PASSWORD BOX and press the ► button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time.</p>  <p>Pressing the ENTER button will return to MyScreen PASS WORD on/off menu.</p> <p>When a PASSWORD is set for MyScreen:</p> <ul style="list-style-type: none"> • The MyScreen registration function (and menu) will be unavailable. • The MyScreen Lock function (and menu) will be unavailable. • The START UP setting will be locked on MyScreen (and the menu will be unavailable). <p>Turning the MyScreen PASSWORD off will allow normal operation of both functions.</p> <ul style="list-style-type: none"> • Please do not forget your MyScreen PASSWORD. <p>2.3 Turning the PASSWORD off</p> <p>2.3-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu.</p> <p>2.3-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). Enter the registered PASSWORD and the screen will return to the MyScreen on/off menu.</p> <p>If an incorrect PASSWORD is input the menu will close. If necessary repeat the process from 2.3-1.</p>
	<p>2.4 If you have forgotten your PASSWORD</p> <p>2.4-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu.</p> <p>2.4-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). The 10 digit Inquiring Code will be displayed inside the BOX.</p>  <p>2.4-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.</p> <p>3. Using the PIN LOCK Function</p> <p>PIN LOCK is a function which prevents the projector from being used unless a registered Code is input.</p> <p>3.1 Registering the PIN Code</p> <p>3.1-1 Use the ▲/▼ buttons on the SECURITY menu to select PIN LOCK and press the ► button or the ENTER button to display the PIN LOCK on/off menu.</p> 

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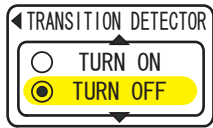
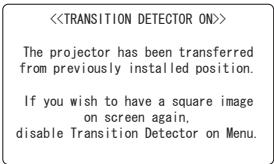

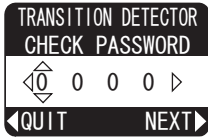
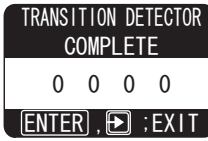
OPTION Menu (continued)

Item	Description
<p>SECURITY (continued)</p>	<p>3.1-2 Use the ▲/▼ buttons on the PIN LOCK on/off menu to select TURN ON and the PIN BOX will be displayed.</p> <p>3.1-3 Input a 4 part PIN Code using the ▲, ▼, ◀, ▶, COMPUTER/STORAGE and INPUT buttons.</p> <p>A CONFIRMATION BOX will appear. Reenter the same PIN Code. This will complete the PIN Code registration.</p> <ul style="list-style-type: none"> • If there is no key input for about 55 seconds while the PIN BOX or the CONFIRMATION BOX are displayed the menu will close. If necessary repeat the process from 3.1-1. <p>Afterwards, anytime the projector is restarted after the power switch is turned off the PIN BOX will be displayed. Enter the registered PIN Code. The projector can be used after entering the registered PIN Code. If an incorrect PIN Code is input the PIN BOX will be displayed again. If an incorrect PIN Code is input 3 times the projector will turn off. Afterwards the projector will turn off every time an incorrect PIN Code is input. The projector will also turn off if there is no key input for about 5 minutes while the PIN BOX is displayed.</p> <p>This function will activate only when the projector is started after the power switch was turned off.</p> <ul style="list-style-type: none"> • Please do not forget your PIN Code. <p>3.2 Turning Off the PIN LOCK Function</p> <p>3.2-1 Follow the procedure in 3.1-1 to display the PIN LOCK on/off menu. Use the ▲/▼ buttons to select TURN OFF and the PIN BOX will be displayed.</p> <p>Enter the registered PIN Code to turn the PIN LOCK function off. If an incorrect PASSWORD is entered the menu will close.</p> <p>3.3 If you have forgotten your PIN Code</p> <p>3.3-1 While the PIN BOX is displayed, press and hold the RESET button for three seconds or press and hold the INPUT and ▶ buttons for three seconds. The 10 digit Inquiring Code will be displayed.</p> <ul style="list-style-type: none"> • If there is no key input for about 5 minutes while the Inquiring Code is displayed the projector will turn off. <p>3.3-2 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.</p>



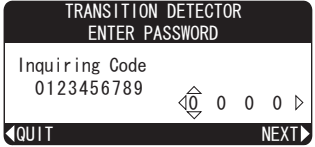
(continued on next page)

OPTION Menu (continued)

Item	Description
<p>SECURITY (continued)</p>	<p>4. Using the Transition Detector Function</p> <p>While the Transition Detector function is ON, when power switch is started to supply to the projector, it might react as below.</p> <ul style="list-style-type: none"> • Transition Detector alarm shown below might appear on screen, if the projector has been moved or re-installed. • Transition Detector alarm might appear on screen, if the MIRROR setting has been changed. • Keystone adjustment feature has been prohibited as long as the Transition Detector function is ON. <p>4.1 Turning On the Transition Detector Function</p> <p>4.1-1 Use the ▲/▼ buttons on the SECURITY menu to select Transition Detector and press the ► or the ENTER button to display the Transition Detector on/off menu.</p>  <p>Select TURN ON and the current angle and mirror setting will be recorded.</p> <ul style="list-style-type: none"> • This feature may not function properly if the projector is not in a stable position when TURN ON is selected. <p>4.1-2 If this function is set to TURN ON when the vertical angle of the projector or mirror setting at which the projector is turned on is different than the previously recorded the Transition Detector Alarm will be displayed and the projector will not display the input signal.</p>  <p>Set the Transition Detector off in the SECURITY menu to display the input signal. If the Transition Detector ALARM is displayed for about 5 minutes the lamp will turn off. This function will activate only when the projector is started after the power switch was turned off.</p> <p>4.2 Setting the Transition Detector PASSWORD</p> <p>4.2-1 Use the ▲/▼ buttons on the SECURITY menu to select Transition Detector and press the ► or the ENTER button to display the Transition Detector on/off menu.</p> <p>4.2-2 Use the ▲/▼ buttons on the Transition Detector on/off menu to select TURN ON. The ENTER PASSWORD BOX (small) will be displayed.</p>  <p>4.2-3 Use the ▲/▼/◀/▶ buttons to enter a PASSWORD. Move the cursor to the right side of the ENTER PASSWORD BOX (small) and press the ► button to display the CHECK PASSWORD BOX, enter the same PASSWORD again.</p>  <p>4.2-4 Move the cursor to the right side of the CHECK PASSWORD BOX and press the ► button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time.</p>  <p>Pressing the ENTER button will return to the Transition Detector on/off menu.</p> <ul style="list-style-type: none"> • Please do not forget your Transition Detector PASSWORD.

(continued on next page)

OPTION Menu (continued)

Item	Description
<p>SECURITY (continued)</p>	<p>4.3 Setting the Transition Detector off</p> <p>4.3-1 Follow the procedure in 4.1-1 to display the Transition Detector on/off menu.</p> <p>4.3-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). Enter the registered PASSWORD and the screen will return to the Transition Detector on/off menu. If an incorrect PASSWORD is input the menu will close. If necessary repeat the process from 4.3-1.</p> <p>4.4 If you have forgotten your PASSWORD</p> <p>4.4-1 Follow the procedure in 4.1-1 to display the Transition Detector on/off menu.</p> <p>4.4-2 Select TURN OFF to display the ENTER PASSWORD BOX (large). The 10 digit Inquiring Code will be displayed inside the BOX.</p> <p>4.4-3 Contact your dealer with the 10 digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.</p>
	

Maintenance

Lamp

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them.

Preparation of a new lamp and early replacement are recommended. To prepare a new lamp, contact your dealer and tell the lamp type number.

Type number : <CP-X254> DT00781, <CP-X264> DT00821

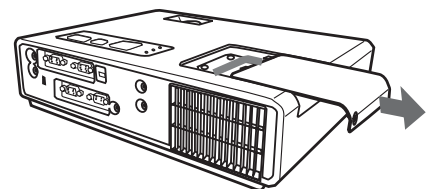
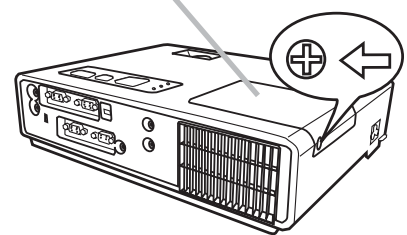
Replacing the lamp

1. Turn the projector off, and unplug the power cord.
 - Allow the projector to cool for at least 45 minutes.
2. Prepare a new lamp.
 - If the projector is mounted on a ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

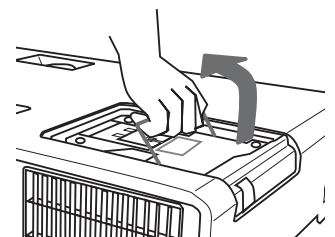
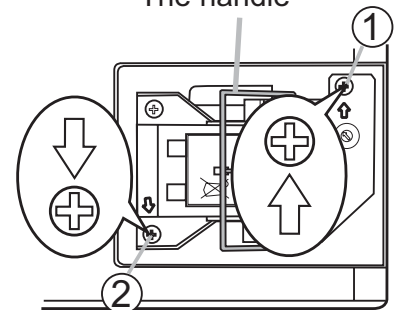
In case of replacement by yourself,

3. Loosen the screw (marked by arrow) of the lamp cover and then slide the lamp cover to the side to remove it.
4. Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handle. It may make it easy to take the lamp out slightly toward the control panel of the projector.
5. Insert the new lamp, and retighten firmly the 2 screws of the lamp that are loosened in the previous process to lock it in place. Tighten the screw ① first, then screw ②.
6. Slide the lamp cover back in place and firmly fasten the screw of the lamp cover.
7. Turn the projector on and reset the lamp time using the LAMP TIME item in the OPTION menu.
 - (1) Press the MENU button to display a menu.
 - (2) Point at the "Go to Advanced Menu ..." in the menu using the ▼/▲ button, then press the ► button.
 - (3) Point at the "OPTION" in the left column of the menu using the ▼/▲ button, then press the ► button.
 - (4) Point at the "LAMP TIME" using the ▼/▲ button, then press the ► button. A dialog will appear.
 - (5) Press the ▲ button to select "RESET" on the dialog. It performs resetting the lamp time.

The lamp cover



The handle



▲ CAUTION ► Do not touch any inner space of the projector, while the lamp is taken out.

NOTE • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

Lamp (continued)**Lamp warning**

 **HIGH VOLTAGE**  **HIGH TEMPERATURE**  **HIGH PRESSURE**

⚠ WARNING ▶ The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

▶ **About disposal of a lamp:** This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws.

- For lamp recycling, go to www.lamprecycle.org. (in the US).
- For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.



Disconnect
the plug
from the
power
outlet

- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Never unscrew except the appointed (marked by an arrow) screws.
- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only the lamp of the specified type.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Air filter

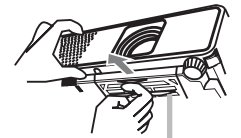
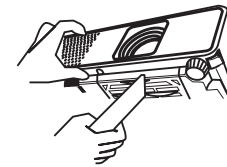
Please check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible. Replace the air filter when it is damaged or too soiled. To prepare a new air filter, contact your dealer and tell the air filter type number.

Type number : MU03602

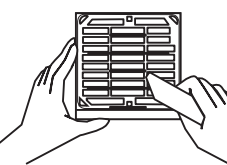
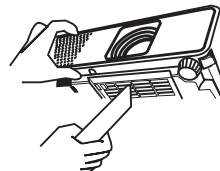
When you replace the lamp, please replace the air filter. An air filter of specified type will come together with a replacement lamp for this projector.

Cleaning the air filter

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.
2. Use a vacuum cleaner on and around the filter cover.
3. While supporting the projector with one hand, use your other hand to pull the filter cover forward in the direction of the arrow.
4. Use a vacuum cleaner for the filter ventilation of the projector. And clean the air filter that is set at one side of the filter cover by using a vacuum cleaner over the other side of the filter cover. Please replace the air filter when it is damaged or too soiled. When the air filter is set, take its half moon shape cut part to the swelled part of the filter cover.
5. Put the filter unit back into the projector.
6. Turn the projector on and reset the filter time using the FILTER TIME item in the EASY MENU.
 - (1) Press the MENU button to display a menu.
 - (2) Point at the "FILTER TIME" using the ▼/▲ button, then press the ► button. A dialog will appear.
 - (3) Press the ▲ button to select "RESET" on the dialog. It performs resetting the filter time.



The filter cover

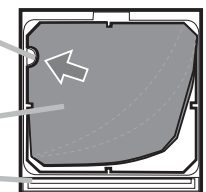


The air filter is set in the reverse side

Swelled part

Air filter

Filter cover



⚠ WARNING ► Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.
 ► Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
 ► Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

NOTE • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
 • The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

Other care

Inside of the projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your dealer about once every year.

Caring for the lens

If the lens is flawed, soiled or fogged, it could cause deterioration of display quality. Please take care of the lens, being cautious of handling.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector is cool adequately, lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

Caring for the cabinet and remote control

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector is cool adequately, lightly wipe with gauze or a soft cloth.

If the projector is extremely dirty, dip soft cloth in water or a neutral cleaner diluted in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

⚠ WARNING ▶ Before caring, make sure the power cable is not plugged in, and then allow the projector to cool sufficiently. The care in a high temperature state of the projector could cause a burn and/or malfunction to the projector.

▶ Never try to care for the inside of the projector personally. Doing is so dangerous.

▶ Avoid wetting the projector or inserting liquids in the projector. It could result in a fire, an electric shock, and/or malfunction to the projector.

- Do not put anything containing water, cleaners or chemicals near the projector.

- Do not use aerosols or sprays.

⚠ CAUTION ▶ Please take right care of the projector according to the following. Incorrect care could cause not only an injury but adverse influence such as discoloration, peeling paint, etc.

▶ Do not use cleaners or chemicals other than those specified in this manual.

▶ Do not polish or wipe with hard objects.

Troubleshooting

If an abnormal operation should occur, stop using the projector immediately.

⚠ WARNING ▶ Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In such cases, immediately disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer or service company.

Otherwise if a problem occurs with the projector, the following checks and measures are recommended before requesting repair.

If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

Related messages

When some message appears, check and cope with it according to the following table. Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

Message	Description
<p>NO INPUT IS DETECTED ***</p>	<p>There is no input signal. Please confirm the signal input connection, and the status of the signal source.</p>
<p>SYNC IS OUT OF RANGE *** [fH] **kHz [fV] **Hz</p>	<p>The horizontal or vertical frequency of the input signal is not within the specified range. Please confirm the specs for your projector or the signal source specs.</p>
<p>CHECK THE AIR FLOW</p>	<p>The internal temperature is rising. Please turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again.</p> <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? <p>If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.</p>
<p>REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK. FILTER MAINTENANCE IS ESSENTIAL TO REMOVE WARNING MESSAGE, RESET FILTER TIMER. SEE MANUAL FURTHER INFO.</p>	<p>A note of precaution when cleaning the air filter. Please immediately turn the power off, and clean or change the air filter referring to the “Air Filter” section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer (📖50).</p>

Regarding the indicator lamps

When operation of the LAMP, TEMP and POWER indicators differs from usual, check and cope with it according to the following table.

POWER indicator	LAMP indicator	TEMP indicator	Description
Lighting In Orange	Turned off	Turned off	The projector is in a standby state. Please refer to the section "Power on/off".
<i>Blinking</i> In Green	Turned off	Turned off	The projector is warming up. Please wait.
Lighting In Green	Turned off	Turned off	The projector is in an on state. Ordinary operations may be performed.
<i>Blinking</i> In Orange	Turned off	Turned off	The projector is cooling down. Please wait.
<i>Blinking</i> In Red	(discre- tionary)	(discre- tionary)	The projector is cooling down. A certain error has been detected. Please wait until the POWER indicator finishes blinking, and then perform the proper measure using the item descriptions below.
<i>Blinking</i> In Red or Lighting In Red	Lighting In Red	Turned off	The lamp does not light, and there is a possibility that interior portion has become heated. Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please change the lamp referring to the section "Lamp".
<i>Blinking</i> In Red or Lighting In Red	<i>Blinking</i> In Red	Turned off	The lamp cover has not been properly fixed. Please turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp cover. After performing any needed maintenance, turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.
<i>Blinking</i> In Red or Lighting In Red	Turned off	<i>Blinking</i> In Red	The cooling fan is not operating. Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.

(continued on next page)

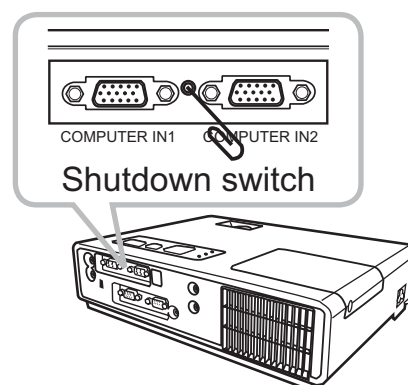
Regarding the indicator lamps (continued)

POWER indicator	LAMP indicator	TEMP indicator	Description
Blinking In Red or Lighting In Red	Turned off	Lighting In Red	<p>There is a possibility that the interior portion has become heated.</p> <p>Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again.</p> <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? <p>If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.</p>
Lighting In Green	Simultaneous blinking in Red		<p>It is time to clean the air filter.</p> <p>Please immediately turn the power off, and clean or change the air filter referring to the section “Air Filter”. After cleaning or changing the air filter, please be sure to reset the filter timer.</p> <p>After the remedy, reset the power to ON.</p>
Lighting In Green	Alternative blinking in Red		<p>There is a possibility that the interior portion has become overcooled.</p> <p>Please use the unit within the usage temperature parameters (5°C to 35°C).</p> <p>After the treatment, reset the power to ON.</p>

NOTE • When the interior portion has become overheated, for safety purposes, the projector is automatically shut down, and the indicator lamps may also be turned off. In such a case, disconnect the power cord, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

Shutting the projector down

Only when the projector can not be turned off by usual procedure (13), please push the shutdown switch using a pin or similar, and disconnect the power plug from the power outlet. Before turning it on again, wait at least 10 minutes to make the projector cool down enough.



Resetting all settings

When it is hard to correct some wrong settings, the FACTORY RESET function of the SERVICE item in the OPTION menu (41) can reset all settings(except LANGUAGE, FILTER TIME, LAMP TIME, FILTER MESSAGE and etc.) to the factory default.

Phenomena that may be easy to be mistaken for machine defects

About the phenomenon confused with a machine defect, check and cope with it according to the following table.

Phenomenon	Cases not involving a machine defect	Reference page
Power does not come on.	The electrical power cord is not plugged in. Correctly connect the power cord.	10
	The main power source has been interrupted during operation such as by a power outage (blackout), etc. Please disconnect the power plug from the power outlet, and allow the projector to cool down at least 10 minutes, then turn the power on again.	10, 13
	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed. Please turn the power off and disconnect the power plug from the power outlet, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	48
Neither sounds nor pictures are outputted.	The signal cables are not correctly connected. Correctly connect the connection cables.	8
	Signal source does not correctly work. Correctly set up the signal source device by referring to the manual of the source device.	–
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	14, 15
Sound does not come out.	The signal cables are not correctly connected. Correctly connect the audio cables.	8
	The MUTE function is working. Restore the sound pressing the MUTE or VOLUME button on the remote control.	14
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	14
	The AUDIO setting is not correct. Correctly set the AUDIO in the SETUP menu.	32
No pictures are displayed.	The lens cover is attached. Remove the lens cover.	13
	The signal cables are not correctly connected. Correctly connect the connection cables.	8

(continued on next page)

Phenomena that may be easy to be mistaken for machine defects (continued)

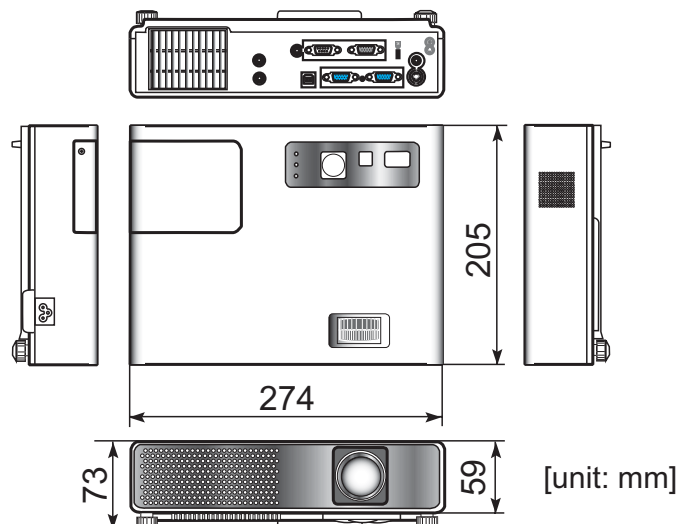
Phenomenon	Cases not involving a machine defect	Reference page
No pictures are displayed. (continued)	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function or the remote control.	21, 23
	The computer cannot detect the projector as a plug and play monitor. Make sure that the computer can detect a plug and play monitor using another plug and play monitor.	9
	The BLANK screen is displayed. Press the BLANK button on the remote control.	19
Video screen display freezes.	The FREEZE function is working. Press the FREEZE button to restore the screen to normal.	19
Colors have a faded- out appearance, or Color tone is poor.	Color settings are not correctly adjusted. Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	21, 24, 28
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	28
Pictures appear dark.	The brightness and/or contrast are adjusted to an extremely low level. Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	21, 23
	The WHISPER function is working. Select NORMAL for the WHISPER item in the SETUP menu.	22, 32
	The lamp is approaching the end of its product lifetime. Replace the lamp.	48
Pictures appear blurry.	Either the focus and/or horizontal phase settings are not properly adjusted. Adjust the focus using the focus ring, and/or H PHASE using the menu function.	16, 27
	The lens is dirty or misty. Clean the lens referring to the section "Caring for the lens".	51

NOTE • Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and it does not constitute or imply a machine defect.

Specifications

Specifications

Item	Specification	
Product name	Liquid crystal projector	
Liquid Crystal Panel	Panel size	1.6 cm (0.63 type)
	Drive system	TFT active matrix
	Pixels	786,432 pixels (1024 horizontal x 768 vertical)
Lens	Zoom lens F=1.7~1.9 f=19~23 mm	
Lamp	<CP-X254> 160W UHB, <CP-X264> 190W UHP	
Speaker	1 W x1	
Power supply	<CP-X254> AC100-120V/2.8A, AC220-240V/1.4A <CP-X264> AC100-120V/3.4A, AC220-240V/1.7A	
Power consumption	<CP-X254> 250 W, <CP-X264> 310 W	
Temperature range	5 ~ 35°C (Operating)	
Size	274 (W) x 59 (H) x 205 (D) mm * Not including protruding parts. Please refer to the following figure.	
Weight (mass)	approx. 1.8 kg	
Ports	Computer input port COMPUTER IN1D-sub 15 pin mini x1 COMPUTER IN2D-sub 15 pin mini x1 Monitor output port MONITOR OUTD-sub 15 pin mini x1 Video input port S-VIDEOmini DIN 4 pin x1 VIDEO RCA x1 Audio input/output port AUDIO IN1 Stereo mini x1 AUDIO IN2 Stereo mini x1 AUDIO OUT Stereo mini x1 Communication port CONTROL D-sub 9pin x1 USBUSB-B x1	
Optional parts	Lamp: <CP-X254> DT00781, <CP-X264> DT00821 Air filter: MU03602 Others: Please consult your dealer.	



Projector

CP-X254/CP-X264

User's Manual (detailed)

Technical

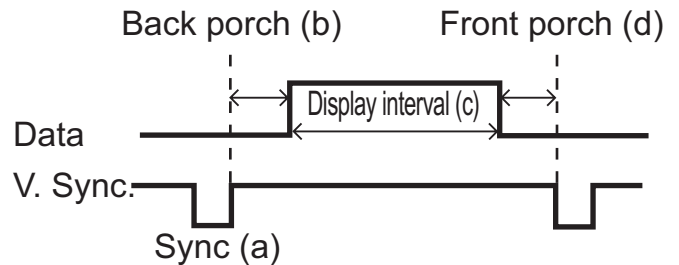
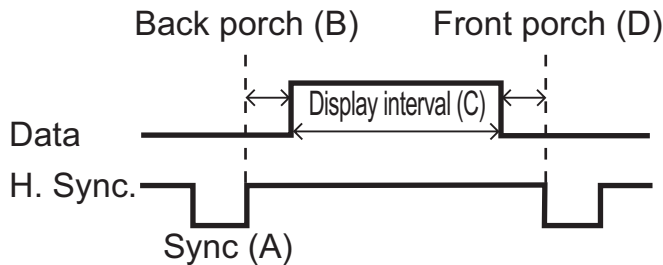
Example of PC signal

Resolution (H x V)	H. frequency (kHz)	V. frequency (Hz)	Rating	Signal mode
720 x 400	37.9	85.0	VESA	TEXT
640 x 480	31.5	59.9	VESA	VGA (60Hz)
640 x 480	37.9	72.8	VESA	VGA (72Hz)
640 x 480	37.5	75.0	VESA	VGA (75Hz)
640 x 480	43.3	85.0	VESA	VGA (85Hz)
800 x 600	35.2	56.3	VESA	SVGA (56Hz)
800 x 600	37.9	60.3	VESA	SVGA (60Hz)
800 x 600	48.1	72.2	VESA	SVGA (72Hz)
800 x 600	46.9	75.0	VESA	SVGA (75Hz)
800 x 600	53.7	85.1	VESA	SVGA (85Hz)
832 x 624	49.7	74.5		Mac 16" mode
1024 x 768	48.4	60.0	VESA	XGA (60Hz)
1024 x 768	56.5	70.1	VESA	XGA (70Hz)
1024 x 768	60.0	75.0	VESA	XGA (75Hz)
1024 x 768	68.7	85.0	VESA	XGA (85Hz)
1152 x 864	67.5	75.0	VESA	1152 x 864 (75Hz)
1280 x 960	60.0	60.0	VESA	1280 x 960 (60Hz)
1280 x 1024	64.0	60.0	VESA	SXGA (60Hz)
1280 x 1024	80.0	75.0	VESA	SXGA (75Hz)
1280 x 1024	91.1	85.0	VESA	SXGA (85Hz)
1600 x 1200	75.0	60.0	VESA	UXGA (60Hz)
1280 x 768	47.7	60.0	VESA	W-XGA (60Hz)
1400 x 1050	65.2	60.0	VESA	SXGA+ (60Hz)

- NOTE** • Be sure to check jack type, signal level, timing and resolution before connecting this projector to a PC.
- Some PCs may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
 - Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.
 - Although the projector can display signals with resolution up to UXGA (1600x1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.
 - Automatically adjustment may not function correctly with some input signals.
 - The image may not be displayed correctly when the input sync signal is a composite sync or a sync on G.

Initial set signals

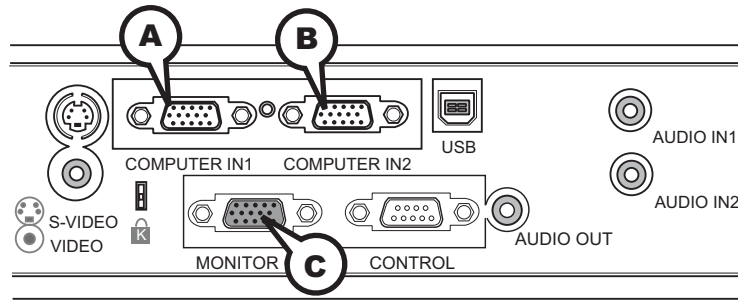
The following signals are used for the initial settings. The signal timing of some PC models may be different. In such case, adjust the items V POSITION and H POSITION in the IMAGE menu.



PC/Signal	Horizontal signal timing (μs)			
	(A)	(B)	(C)	(D)
TEXT	2.0	3.0	20.3	1.0
VGA (60Hz)	3.8	1.9	25.4	0.6
VGA (72Hz)	1.3	4.1	20.3	0.8
VGA (75Hz)	2.0	3.8	20.3	0.5
VGA (85Hz)	1.6	2.2	17.8	1.6
SVGA (56Hz)	2.0	3.6	22.2	0.7
SVGA (60Hz)	3.2	2.2	20.0	1.0
SVGA (72Hz)	2.4	1.3	16.0	1.1
SVGA (75Hz)	1.6	3.2	16.2	0.3
SVGA (85Hz)	1.1	2.7	14.2	0.6
Mac 16" mode	1.1	3.9	14.5	0.6
XGA (60Hz)	2.1	2.5	15.8	0.4
XGA (70Hz)	1.8	1.9	13.7	0.3
XGA (75Hz)	1.2	2.2	13.0	0.2
XGA (85Hz)	1.0	2.2	10.8	0.5
1152 x 864 (75Hz)	1.2	2.4	10.7	0.6
1280 x 960 (60Hz)	1.0	2.9	11.9	0.9
SXGA (60Hz)	1.0	2.3	11.9	0.4
SXGA (75Hz)	1.1	1.8	9.5	0.1
SXGA (85Hz)	1.0	1.4	8.1	0.4
UXGA (60Hz)	1.2	1.9	9.9	0.4
W-XGA (60Hz)	1.7	2.5	16.0	0.8
SXGA+ (60Hz)	1.2	2.0	11.4	0.7

PC/Signal	Vertical signal timing (lines)			
	(a)	(b)	(c)	(d)
TEXT	3	42	400	1
VGA (60Hz)	2	33	480	10
VGA (72Hz)	3	28	480	9
VGA (75Hz)	3	16	480	1
VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	3	27	600	1
Mac 16" mode	3	39	624	1
XGA (60Hz)	6	29	768	3
XGA (70Hz)	6	29	768	3
XGA (75Hz)	3	28	768	1
XGA (85Hz)	3	36	768	1
1152 x 864 (75Hz)	3	32	864	1
1280 x 960 (60Hz)	3	36	960	1
SXGA(60Hz)	3	38	1024	1
SXGA (75Hz)	3	38	1024	1
SXGA (85Hz)	3	44	1024	1
UXGA (60Hz)	3	46	1200	1
W-XGA (60Hz)	3	23	768	1
SXGA+ (60Hz)	3	33	1050	1

Connection to the ports

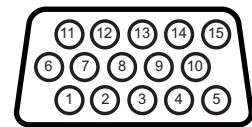


ⒶCOMPUTER IN1, ⒷCOMPUTER IN2, ⒸMONITOR OUT

D-sub 15pin mini shrink jack

(1) for PC signal

- Video signal: RGB separate, Analog, 0.7Vp-p, 75Ω terminated (positive)
- H/V. sync. Signal: TTL level (positive/negative)
- Composite sync. Signal: TTL level



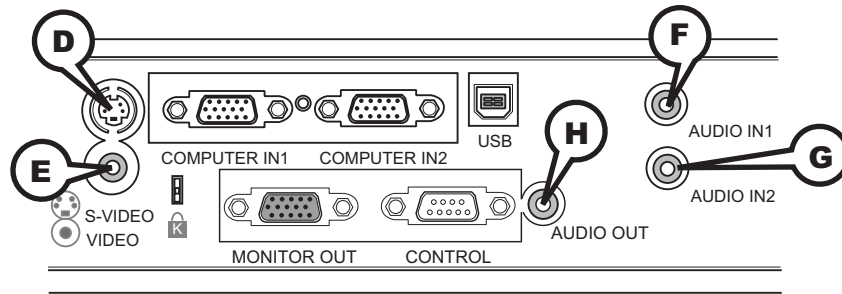
Pin	Signal	Pin	Signal
1	Video Red	10	Ground
2	Video Green	11	(No connection)
3	Video Blue	12	Ⓐ: SDA (DDC data)
4	(No connection)		Ⓑ: (No connection)
5	Ground	13	H. sync / Composite sync.
6	Ground Red	14	V. sync.
7	Ground Green	15	Ⓐ: SCL (DDC clock)
8	Ground Blue		Ⓑ: (No connection)
9	(No connection)	-	-

(2) for Component signal (COMPUTER IN1 only)

- Y : Component video Y, 1.0±0.1 Vp-p, 75 Ω terminator with composite
- CR/PR : Component video CR/PR, 0.7±0.1 Vp-p, 75 Ω terminator
- CB/PB : Component video CR/PR, 0.7±0.1 Vp-p, 75 Ω terminator

Pin	Signal	Pin	Signal
1	CR/PR	10	Ground
2	Y	11	(No connection)
3	CB/PB	12	(No connection)
4	(No connection)	13	(No connection)
5	Ground	14	(No connection)
6	Ground CR/PR	15	(No connection)
7	Ground Y	-	-
8	Ground CB/PB	-	-
9	(No connection)	-	-

Connection to the ports (continued)



ⓓS-VIDEO

Mini DIN 4pin jack



Pin	Signal
1	Color signal 0.286Vp-p (NTSC, burst), 75Ω terminator Color signal 0.300Vp-p (PAL/SECAM, burst) 75Ω terminator
2	Brightness signal, 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

ⓔVIDEO

RCA jack

- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43
- 1.0 ± 0.1 Vp-p, 75Ω terminator

ⓕAUDIO IN1, ⓖAUDIO IN2,

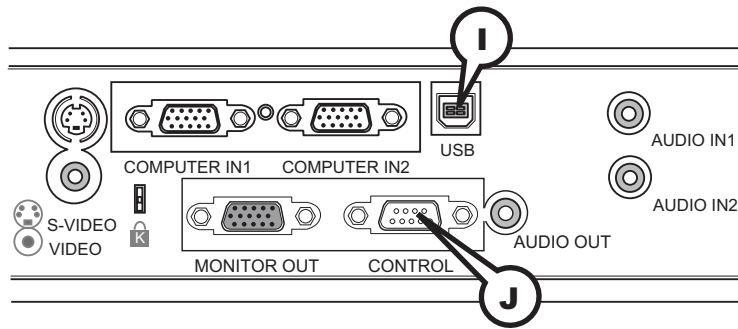
Ø3.5 stereo mini jack

- 200 mVrms 47kΩ terminator

ⓓAUDIO OUT

Ø3.5 stereo mini jack

- 200 mVrms 1kΩ output impedance



I USB

USB B type jack



Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

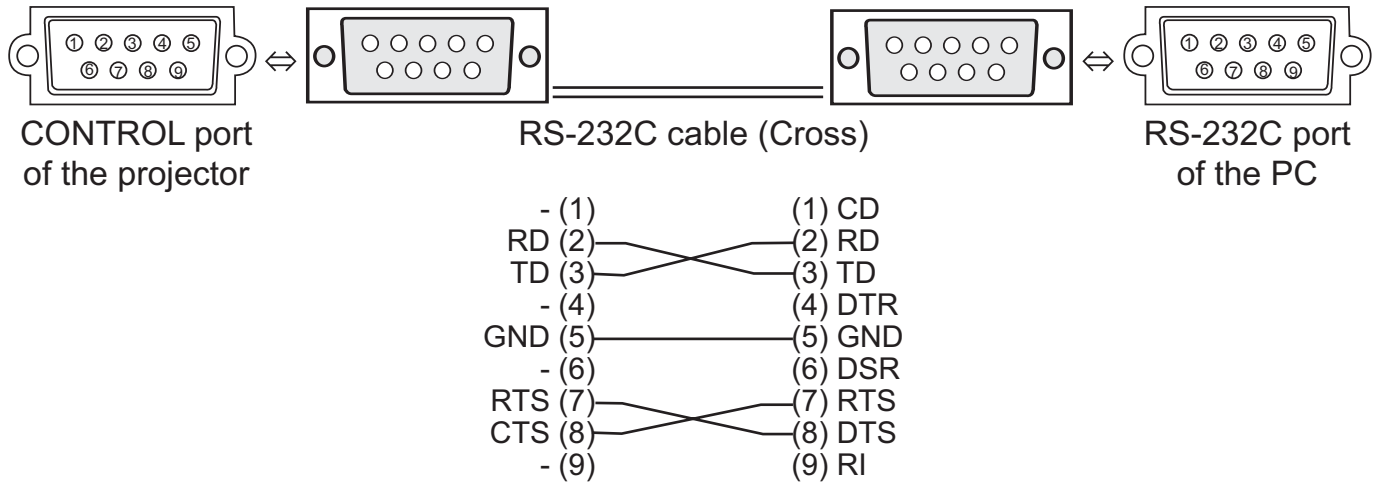
J CONTROL

D-sub 9pin plug



Pin	Signal	Pin	Signal	Pin	Signal
1	(No connection)	4	(No connection)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No connection)	9	(No connection)

RS-232C Communication



Connecting the cable

1. Turn off the projector and the PC.
2. Connect the CONTROL port of the projector with a RS-232C port of the PC by a RS-232C cable (cross). Use the cable that fulfills the specification shown in the previous page.
3. Turn the PC on, and after the PC has started up turn the projector on.

Communications setting

19200bps, 8N1

1. Protocol

Consist of header (7 bytes) + command data (6 bytes).

2. Header

BE + EF + 03 + 06 + 00 + CRC_low + CRC_high

CRC_low : Lower byte of CRC flag for command data

CRC_high : Upper byte of CRC flag for command data

3. Command data

Command data chart

byte_0	byte_1	byte_2	byte_3	byte_4	byte_5
Action		Type		Setting code	
low	high	low	high	low	high

Action (byte_0 - 1)

Action	Classification	Content
1	SET	Change setting to desired value.
2	GET	Read projector internal setup value.
4	INCREMENT	Increment setup value by 1.
5	DECREMENT	Decrement setup value by 1.
6	EXECUTE	Run a command.

Requesting projector status (Get command)

- (1) Send the following request code from the PC to the projector.
Header + Command data ('02H' + '00H' + type (2 bytes) + '00H' + '00H')
- (2) The projector returns the response code '1DH' + data (2 bytes) to the PC.

Changing the projector settings (Set command)

- (1) Send the following setting code from the PC to the projector.
Header + Command data ('01H' + '00H' + type (2 bytes) + setting code (2 bytes))
- (2) The projector changes the setting based on the above setting code.
- (3) The projector returns the response code '06H' to the PC.

Using the projector default settings (Reset Command)

- (1) The PC sends the following default setting code to the projector.
Header + Command data ('06H' + '00H' + type (2 bytes) + '00H' + '00H')
- (2) The projector changes the specified setting to the default value.
- (3) The projector returns the response code '06H' to the PC.

Increasing the projector setting value (Increment command)

- (1) The PC sends the following increment code to the projector.
Header + Command data ('04H' + '00H' + type (2 bytes) + '00H' + '00H')
- (2) The projector increases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the PC.

Decreasing the projector setting value (Decrement command)

- (1) The PC sends the following decrement code to the projector.
Header + Command data ('05H' + '00H' + type (2 bytes) + '00H' + '00H')
- (2) The projector decreases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the PC.

When the projector cannot understand the received command

When the projector cannot understand the received command, the error code '15H' is sent back to the PC.

Sometimes the projector cannot properly receive the command. In such a case, the command is not executed and the error code '15H' is sent back to the PC. If this error code is returned, send the same command again.

When the projector cannot execute the received command

When the projector cannot execute the received command, the error code '1CH' + 'xxxxH' is sent back to the PC.

When the data length is greater than indicated by the data length code, the projector ignore the excess data code. Conversely when the data length is shorter than indicated by the data length code, an error code will be returned to the PC.

- NOTE** • Operation cannot be guaranteed when the projector receives an undefined command or data.
- Provide an interval of at least 40ms between the response code and any other code.
 - The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
 - Commands are not accepted during warm-up.

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get	Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00
		[Example return] 00 00 01 00 02 00 [Off] [On] [Cool down]							
Input Source	Set	COMPUTER 1	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		COMPUTER 2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		S-VIDEO	BE EF	03	06 00	9E D3	01 00	00 20	02 00
	Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00	
Error Status	Get	Get	BE EF	03	06 00	D9 D8	02 00	20 60	00 00
		[Example return] 00 00 01 00 02 00 03 00 [Normal] [Cover error] [Fan error] [Lamp error] 04 00 05 00 06 00 07 00 [Temp error] [Air flow error] [Lamp time error] [Cool error] 08 00 [Filter error]							
BRIGHTNESS	Get		BE EF	03	06 00	89 D2	02 00	03 20	00 00
	Increment		BE EF	03	06 00	EF D2	04 00	03 20	00 00
	Decrement		BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHTNESS Reset	Execute		BE EF	03	06 00	58 D3	06 00	00 70	00 00
CONTRAST	Get		BE EF	03	06 00	FD D3	02 00	04 20	00 00
	Increment		BE EF	03	06 00	9B D3	04 00	04 20	00 00
	Decrement		BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Reset	Execute		BE EF	03	06 00	A4 D2	06 00	01 70	00 00
PICTURE MODE	Set	NORMAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
		BOARD(BLACK)	BE EF	03	06 00	E3 EF	01 00	BA 30	20 00
		BOARD(GREEN)	BE EF	03	06 00	73 EE	01 00	BA 30	21 00
		WHITEBOARD	BE EF	03	06 00	83 EE	01 00	BA 30	22 00
	Get	BE EF	03	06 00	10 F6	02 00	BA 30	00 00	
[Example return] 00 00 01 00 04 00 10 00 [Normal] [Cinema] [Dynamic] [Custom] 20 00 21 00 22 00 [BOARD(BLACK)] [BOARD(GREEN)] [WHITEBOARD]									
GAMMA	Set	#1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		#1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		#2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		#2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		#3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		#3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
		#4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
		#4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
		#5 DEFAULT	BE EF	03	06 00	C7 EB	01 00	A1 30	24 00
	#5 CUSTOM	BE EF	03	06 00	C7 FF	01 00	A1 30	14 00	
Get		BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting Code	
User Gamma Pattern	Set	Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 step gray scale	BE EF	03	06 00	6B FB	01 00	80 30	01 00
		15 steps gray scale	BE EF	03	06 00	9B FB	01 00	80 30	02 00
		Ramp	BE EF	03	06 00	0B FA	01 00	80 30	03 00
	Get	BE EF	03	06 00	C8 FA	02 00	80 30	00 00	
User Gamma Point 1	Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00	
	Increment	BE EF	03	06 00	6E FE	04 00	90 30	00 00	
	Decrement	BE EF	03	06 00	BF FF	05 00	90 30	00 00	
User Gamma Point 2	Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00	
	Increment	BE EF	03	06 00	92 FF	04 00	91 30	00 00	
	Decrement	BE EF	03	06 00	43 FE	05 00	91 30	00 00	
User Gamma Point 3	Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00	
	Increment	BE EF	03	06 00	D6 FF	04 00	92 30	00 00	
	Decrement	BE EF	03	06 00	07 FE	05 00	92 30	00 00	
User Gamma Point 4	Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00	
	Increment	BE EF	03	06 00	2A FE	04 00	93 30	00 00	
	Decrement	BE EF	03	06 00	FB FF	05 00	93 30	00 00	
User Gamma Point 5	Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00	
	Increment	BE EF	03	06 00	5E FF	04 00	94 30	00 00	
	Decrement	BE EF	03	06 00	8F FE	05 00	94 30	00 00	
User Gamma Point 6	Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00	
	Increment	BE EF	03	06 00	A2 FE	04 00	95 30	00 00	
	Decrement	BE EF	03	06 00	73 FF	05 00	95 30	00 00	
User Gamma Point 7	Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00	
	Increment	BE EF	03	06 00	E6 FE	04 00	96 30	00 00	
	Decrement	BE EF	03	06 00	37 FF	05 00	96 30	00 00	
User Gamma Point 8	Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00	
	Increment	BE EF	03	06 00	1A FF	04 00	97 30	00 00	
	Decrement	BE EF	03	06 00	CB FE	05 00	97 30	00 00	
COLOR TEMP	Set	HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		MID	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		CUSTOM-1	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		CUSTOM-2	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		CUSTOM-3	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		CUSTOM-4	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
	CUSTOM-5	BE EF	03	06 00	6B FE	01 00	B0 30	19 00	
Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00		
COLOR TEMP GAIN R	Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00	
	Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00	
	Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00	
COLOR TEMP GAIN G	Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00	
	Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00	
	Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting Code	
COLOR TEMP GAIN B	Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00	
	Increment	BE EF	03	06 00	EA F5	04 00	B3 30	00 00	
	Decrement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00	
COLOR TEMP OFFSET R	Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00	
	Increment	BE EF	03	06 00	62 F5	04 00	B5 30	00 00	
	Decrement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00	
COLOR TEMP OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00	
	Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00	
	Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00	
COLOR TEMP OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00	
	Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00	
	Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00	
COLOR	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00	
COLOR Reset	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00	
TINT	Get	BE EF	03	06 00	49 73	02 00	03 22	00 00	
	Increment	BE EF	03	06 00	2F 73	04 00	03 22	00 00	
	Decrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00	
TINT Reset	Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00	
SHARPNESS	Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00	
	Increment	BE EF	03	06 00	97 72	04 00	01 22	00 00	
	Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00	
SHARPNESS Reset	Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00	
MY MEMORY Load	Set	1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
MY MEMORY Save	Set	1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
		2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
		3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00
PROGRESSIVE	Set	TURN OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
	Get	BE EF	03	06 00	79 72	02 00	07 22	00 00	
VIDEO NR	Set	LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
		MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
	Get	BE EF	03	06 00	85 73	02 00	06 22	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting Code	
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		14:9	BE EF	03	06 00	CE D6	01 00	08 20	09 00
		SMALL	BE EF	03	06 00	FE D1	01 00	08 20	02 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
	Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00	
OVER SCAN	Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
	Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00	
	Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00	
OVER SCAN Reset	Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00	
V POSITION	Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
	Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00	
	Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00	
V POSITION Reset	Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00	
H POSITION	Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00	
	Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00	
	Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00	
H POSITION Reset	Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00	
H PHASE	Get	BE EF	03	06 00	49 83	02 00	03 21	00 00	
	Increment	BE EF	03	06 00	2F 83	04 00	03 21	00 00	
	Decrement	BE EF	03	06 00	FE 82	05 00	03 21	00 00	
H SIZE	Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00	
	Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00	
	Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00	
H SIZE Reset	Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00	
AUTO ADJUST	Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
	Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00	
C-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	A2 70	01 00	11 22	0A 00
		NTSC	BE EF	03	06 00	C2 74	01 00	11 22	04 00
		PAL	BE EF	03	06 00	52 75	01 00	11 22	05 00
		SECAM	BE EF	03	06 00	52 70	01 00	11 22	09 00
		NTSC4.43	BE EF	03	06 00	62 77	01 00	11 22	02 00
		M-PAL	BE EF	03	06 00	C2 71	01 00	11 22	08 00
		N-PAL	BE EF	03	06 00	32 74	01 00	11 22	07 00
	Get	BE EF	03	06 00	31 76	02 00	11 22	00 00	
S-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	E6 70	01 00	12 22	0A 00
		NTSC	BE EF	03	06 00	86 74	01 00	12 22	04 00
		PAL	BE EF	03	06 00	16 75	01 00	12 22	05 00
		SECAM	BE EF	03	06 00	16 70	01 00	12 22	09 00
		NTSC4.43	BE EF	03	06 00	26 77	01 00	12 22	02 00
		M-PAL	BE EF	03	06 00	86 71	01 00	12 22	08 00
		N-PAL	BE EF	03	06 00	76 74	01 00	12 22	07 00
	Get	BE EF	03	06 00	75 76	02 00	12 22	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header					Command Data		
						CRC	Action	Type	Setting Code
COMPUTER 1	Set	SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
		AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
	Get	BE EF	03	06 00	0D D6	02 00	10 20	00 00	
COMPUTER 2	Set	SYNC ON G OFF	BE EF	03	06 00	A2 D6	01 00	11 20	02 00
		AUTO	BE EF	03	06 00	32 D7	01 00	11 20	03 00
	Get	BE EF	03	06 00	F1 D7	02 00	11 20	00 00	
FRAME LOCK	Set	TURN OFF	BE EF	03	06 00	CB D6	01 00	14 30	00 00
		TURN ON	BE EF	03	06 00	5B D7	01 00	14 30	01 00
	Get	BE EF	03	06 00	F8 D6	02 00	14 30	00 00	
KEYSTONE V	Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00	
	Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00	
	Decrement	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
KEYSTONE V Reset	Execute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00	
WHISPER	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
	Get	BE EF	03	06 00	08 23	02 00	00 33	00 00	
MIRROR	Set	NORMAL	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		H:INVERT	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		V:INVERT	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
	H&V:INVERT	BE EF	03	06 00	37 D2	01 00	01 30	03 00	
Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00		
VOLUME-COMPUTER1	Get	BE EF	03	06 00	CD CC	02 00	60 20	00 00	
	Increment	BE EF	03	06 00	AB CC	04 00	60 20	00 00	
	Decrement	BE EF	03	06 00	7A CD	05 00	60 20	00 00	
VOLUME-COMPUTER2	Get	BE EF	03	06 00	FD CD	02 00	64 20	00 00	
	Increment	BE EF	03	06 00	9B CD	04 00	64 20	00 00	
	Decrement	BE EF	03	06 00	4A CC	05 00	64 20	00 00	
VOLUME-Video	Get	BE EF	03	06 00	31 CD	02 00	61 20	00 00	
	Increment	BE EF	03	06 00	57 CD	04 00	61 20	00 00	
	Decrement	BE EF	03	06 00	86 CC	05 00	61 20	00 00	
VOLUME-S-Video	Get	BE EF	03	06 00	75 CD	02 00	62 20	00 00	
	Increment	BE EF	03	06 00	13 CD	04 00	62 20	00 00	
	Decrement	BE EF	03	06 00	C2 CC	05 00	62 20	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
MUTE	Set	TURN OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		TURN ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
	Get	BE EF	03	06 00	75 D3	02 00	02 20	00 00	
AUDIO - COMPUTER1	Set	TURN OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
		Audio1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		Audio2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
	Get	BE EF	03	06 00	CD DD	02 00	30 20	00 00	
AUDIO - COMPUTER2	Set	TURN OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00
		Audio1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		Audio2	BE EF	03	06 00	AE DD	01 00	34 20	02 00
	Get	BE EF	03	06 00	FD DC	02 00	34 20	00 00	
AUDIO - Video	Set	TURN OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
		Audio1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		Audio2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
	Get	BE EF	03	06 00	31 DC	02 00	31 20	00 00	
AUDIO - S-Video	Set	TURN OFF	BE EF	03	06 00	46 DC	01 00	32 20	00 00
		Audio1	BE EF	03	06 00	D6 DD	01 00	32 20	01 00
		Audio2	BE EF	03	06 00	26 DD	01 00	32 20	02 00
	Get	BE EF	03	06 00	75 DC	02 00	32 20	00 00	
IR REMOTE FREQ. NORMAL	Set	Off	BE EF	03	06 00	FF 3D	01 00	30 26	00 00
		On	BE EF	03	06 00	6F 3C	01 00	30 26	01 00
	Get	BE EF	03	06 00	CC 3D	02 00	30 26	00 00	
IR REMOTE FREQ. HIGH	Set	Off	BE EF	03	06 00	03 3C	01 00	31 26	00 00
		On	BE EF	03	06 00	93 3D	01 00	31 26	01 00
	Get	BE EF	03	06 00	30 3C	02 00	31 26	00 00	
LANGUAGE	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		简体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		繁體中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
	POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00	
TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00		
	Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	
MENU POSITION H	Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment	BE EF	03	06 00	62 D7	04 00	15 30	00 00	
	Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset	Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	Setting Code
MENU POSITION V	Get	BE EF	03	06 00	40 D7	02 00	16 30	00 00	
	Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
	Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset	Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00	
BLANK	Set	My Screen	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00
		BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00
		BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00
	Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00	
BLANK On/Off	Set	TURN OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00
		TURN ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00
	Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00	
START UP	Set	My Screen	BE EF	03	06 00	CB CB	01 00	04 30	20 00
		ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
		TURN OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
	Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
My Screen LOCK	Set	TURN OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00
		TURN ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00
	Get	BE EF	03	06 00	08 EF	02 00	C0 30	00 00	
MESSAGE	Set	TURN OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		TURN ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00
	Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00	
AUTO SEARCH	Set	TURN OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		TURN ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
	Get	BE EF	03	06 00	85 D6	02 00	16 20	00 00	
AUTO OFF	Get	BE EF	03	06 00	08 86	02 00	10 31	00 00	
	Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00	
AUTO ON	Set	TURN OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		TURN ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
	Get	BE EF	03	06 00	08 89	02 00	20 31	00 00	
LAMP TIME	Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
LAMP TIME Reset	Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00	
FILTER TIME	Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
FILER TIME Reset	Execute	BE EF	03	06 00	98 C6	06 00	40 70	00 00	
AUTO KEYSTONE EXECUTE	Execute	BE EF	03	06 00	E5 D1	06 00	0D 20	00 00	
AUTO KEYSTONE	Set	TURN OFF	BE EF	03	06 00	EAD1	01 00	0F 20	00 00
		TURN ON	BE EF	03	06 00	7AD0	01 00	0F 20	01 00
	Get	BE EF	03	06 00	D9 D1	02 00	0F 20	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
					CRC	Action	Type	Setting Code	
MAGNIFY	Get	BE EF	03	06 00	7C D2	02 00	07 30	00 00	
	Increment	BE EF	03	06 00	1A D2	04 00	07 30	00 00	
	Decrement	BE EF	03	06 00	CB D3	05 00	07 30	00 00	
FREEZE	Set	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00
		FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00
	Get	BE EF	03	06 00	B0 D2	02 00	02 30	00 00	

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