ViewSonic®

PJL9371
XGA LCD Projector

- User Guide
- Guide de l'utilisateur
- Bedienungsanleitung
- Guía del usuario
- Guida dell'utente
- Guia do usuário
- Användarhandbok
- Käyttöopas
- Руководство пользователя
- 使用手冊 (繁體)
- 使用手册 (简体)
- 사용자 안내서

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box in the upper right corner of our website.

"Antes de operar su equipo lea cuidadosamente las instrucciones en este manual"

ViewSonic®

Model No. : VS12680

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Compliance Information

FCC Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

Following information is only for EU-member states:

The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).

The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

This is a Class A product in European Union.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this unit near water.
6. Clean with a soft, dry cloth. If still not clean, see “Cleaning the Display” in this guide for further instructions.
7. Do not block any ventilation openings. Install the unit in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tipping over.
13. Unplug this unit when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

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Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr^{6+})	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com. The ViewSonic® Wizard CD-ROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

For Your Records

Product Name:	**PJL9371**
	ViewSonic XGA LCD Projector
Model Number:	**VS12680**
Document Number:	**PJL9371_UG_ENG Rev. 1A 07-01-09**
Serial Number:	_____
Purchase Date:	_____

Personal Identification Number (PIN):

The lamp in this product contains mercury.
Please dispose of in accordance with local, state or federal laws.

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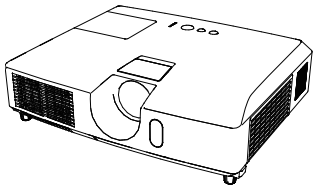
Projector

PJL9371

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.
NOTICE	This entry notices of fear of causing trouble. Please refer to the pages written following this symbol.

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

About this manual. 1
Contents 2
Projector features. 3
Preparations 3
Checking the contents of package. . . 3
Part names 4
Projector 4
Control panel. 5
Rear panel 5
Remote control 6
Setting up 7
Arrangement 7
Connecting your devices. 9
Connecting power supply 11
Using the security bar and slot 11
Remote control 12
Installing the batteries 12
About the remote control signal . . . 12
Changing the frequency of remote control signal 13
Power on/off 14
Turning on the power 14
Turning off the power 14
Operating 15
Adjusting the volume. 15
Temporarily muting the sound. 15
Selecting an input signal. 15
Searching an input signal 17
Selecting an aspect ratio. 17
Adjusting the projector's elevator . . 18
Adjusting the zoom and focus. 18
Using the automatic adjustment feature. . . 19
Adjusting the position 19
Correcting the keystone distortions. . 20
Using the magnify feature 20
Temporarily freezing the screen . . . 21
Temporarily blanking the screen . . 21
Using the menu function 22
EASY MENU. 24
ASPECT, AUTO KEYSTONE (EXECUTE), KEYSTONE, PICTURE MODE, ECO MODE, MIRROR, RESET, FILTER TIME, LANGUAGE, ADVANCED MENU, EXIT
PICTURE menu 26
BRIGHTNESS, CONTRAST, GAMMA, COLOR TEMP, COLOR, TINT, SHARPNESS, ACTIVE IRIS, MY MEMORY
IMAGE menu 29
ASPECT, OVER SCAN, V POSITION, H POSITION, H PHASE, H SIZE, AUTO ADJUST EXECUTE
INPUT menu 31
PROGRESSIVE, VIDEO NR, COLOR SPACE, COMPONENT, VIDEO FORMAT, COMPUTER IN, FRAME LOCK, RESOLUTION
SETUP menu 34
AUTO KEYSTONE (EXECUTE), KEYSTONE, ECO MODE, MIRROR, STANDBY MODE, MONITOR OUT
AUDIO menu 36
VOLUME, SPEAKER, AUDIO SOURCE
SCREEN menu. 37
LANGUAGE, MENU POSITION, BLANK, START UP, MyScreen, MyScreen Lock, MESSAGE, SOURCE NAME, TEMPLATE, C.C.
OPTION menu 42
AUTO SEARCH, AUTO KEYSTONE, DIRECT ON, AUTO OFF, LAMP TIME, FILTER TIME, MY BUTTON, MY SOURCE, SERVICE
SECURITY menu 47
SECURITY PASSWORD CHANGE, MyScreen PASSWORD, PIN LOCK, TRANSITION DETECTOR, MY TEXT PASSWORD, MY TEXT DISPLAY, MY TEXT WRITING, SECURITY INDICATOR
Maintenance 53
Replacing the lamp 53
Cleaning and replacing the air filter . . 55
Other care 56
Troubleshooting 57
Related messages 58
Regarding the indicator lamps 59
Shutting the projector down 61
Resetting all settings. 61
Phenomena that may be easy to be mistaken for machine defects. . 61
Specifications 64
RS-232C Communication 66

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Projector features

The projector provides you with the broad use by the following features.

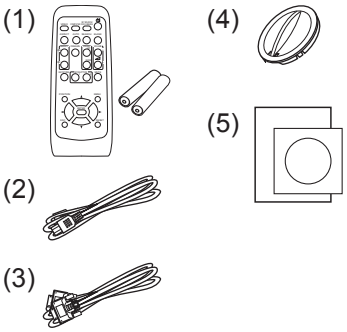
- ✓ This projector has a variety of I/O ports that supposedly cover for any business scene.
- ✓ This projector realizes the large projection image, even if in a small space.
- ✓ The new double layer filter system is expected to function longer and offers you less maintenance frequency.
- ✓ The built-in 16W speaker can deliver sufficient sound volume in a large space like a classroom without external speakers.

Preparations

Checking the contents of package

Your projector should come with the items shown below. Check that all the items are included. Require of your dealer immediately if any items are missing.

(1) Remote control with two AA batteries
(2) Power cord
(3) Computer cable
(4) Lens cover
(5) User's manuals (Book x1, CD x1)



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.

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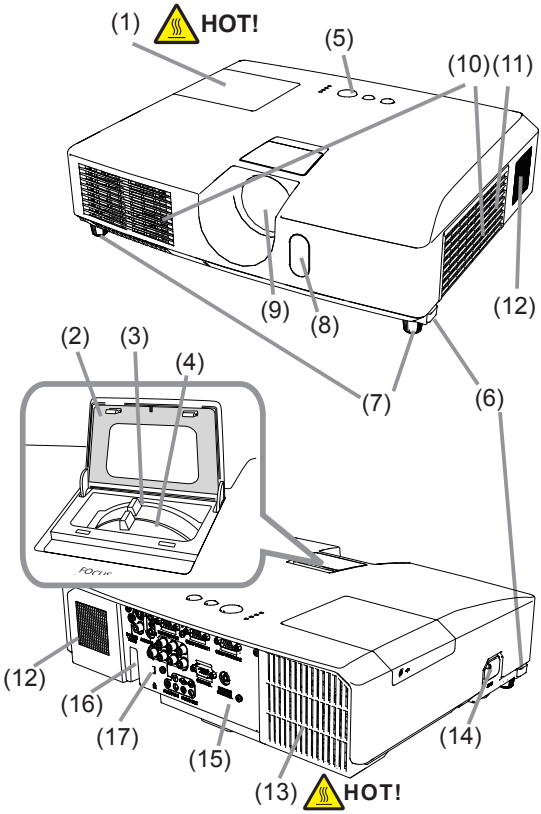
Part names

Projector

(1) Lamp cover
The lamp unit is inside.
(2) Zoom / focus ring cover
(3) Focus ring
(4) Zoom ring
(5) Control panel
(6) Elevator buttons (x 2)
(7) Elevator feet (x 2)
(8) Remote sensor
(9) Lens
(10) Intake vents
(11) Filter cover
The air filter and intake vent are inside.
(12) Speaker
(13) Exhaust vent
(14) **AC IN** (AC inlet)
(15) Rear panel
(16) Security bar
(17) Security slot



⚠**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 buttons 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 bar and slot to prevent the projector from falling down, since it is not designed for it.

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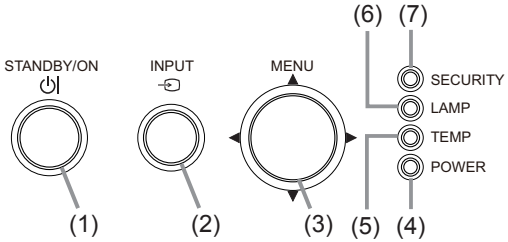
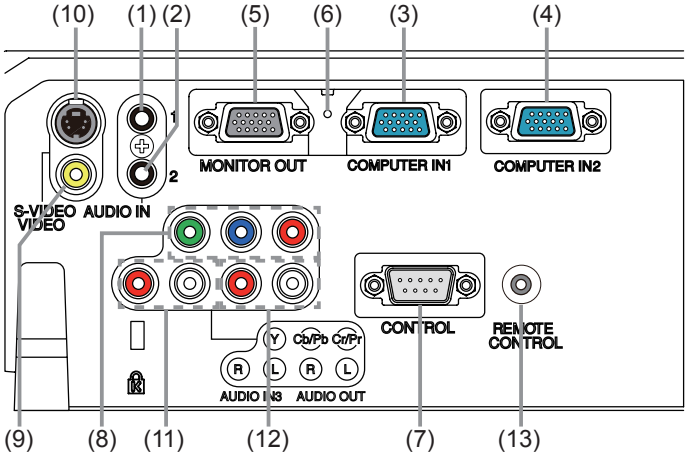
Control panel

(1) **STANDBY/ON** button
(2) **INPUT** button
(3) **MENU** button
It consists of four cursor buttons.
(4) **POWER** indicator
(5) **TEMP** indicator
(6) **LAMP** indicator
(7) **SECURITY** indicator



Rear panel

(1) **AUDIO IN1** port
(2) **AUDIO IN2** port
(3) **COMPUTER IN1** port
(4) **COMPUTER IN2** port
(5) **MONITOR OUT** port
(6) Shutdown switch
(7) **CONTROL** port
(8) **COMPONENT**
(**Y**, **Cb**/**Pb**, **Cr**/**Pr**) ports
(9) **VIDEO** port
(10) **S-VIDEO** port
(11) **AUDIO IN3 (R, L)** ports
(12) **AUDIO OUT (R, L)** ports
(13) **REMOTE CONTROL** port
For connecting the laser and wired remote control (optional).



⚠**CAUTION** ►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.

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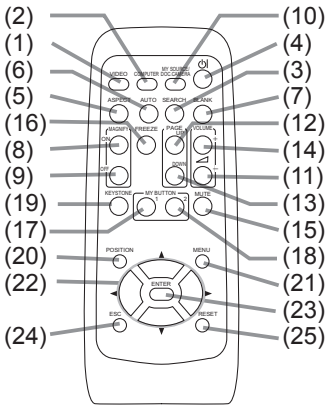
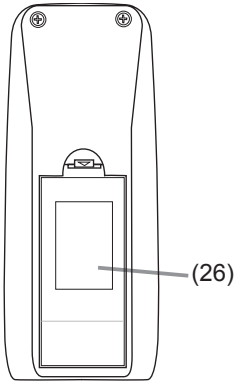
Remote control

(1) **VIDEO** button
(2) **COMPUTER** button
(3) **SEARCH** button
(4) **STANDBY/ON** button
(5) **ASPECT** button
(6) **AUTO** button
(7) **BLANK** button
(8) **MAGNIFY - ON** button
(9) **MAGNIFY - OFF** button
(10) **MY SOURCE/DOC.CAMERA** button
(11) **VOLUME -** button
(12) **PAGE UP** button *
(13) **PAGE DOWN** button *
(14) **VOLUME +** button
(15) **MUTE** button
(16) **FREEZE** button
(17) **MY BUTTON - 1** button
(18) **MY BUTTON - 2** button
(19) **KEYSTONE** button
(20) **POSITION** button
(21) **MENU** button
(22) ▲/▼/◄/► cursor buttons
(23) **ENTER** button
(24) **ESC** button
(25) **RESET** button
(26) Battery cover





Back of
the remote control

NOTE • Any button marked with "*" is not supported on this projector.

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Setting up

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

Arrangement

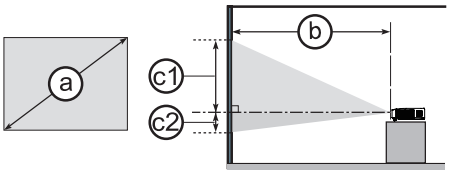
Refer to the illustrations and tables below to determine screen size and projection distance.

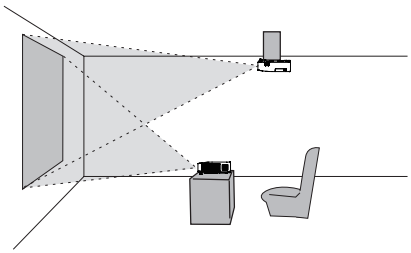
The values shown in the table are calculated for a full size screen: 1024 x 768

ⓐ Screen size (diagonal) ⓑ Projection distance (±10%)

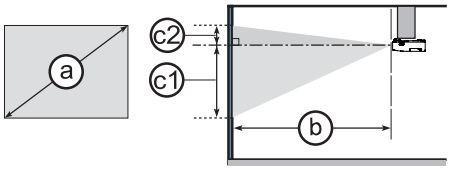
ⓒ1 , ⓒ2 Screen height (±10%)

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.

• For the case of installation in a special state such as ceiling mount, the specified mounting accessories and service may be required. Before installing the projector, consult your dealer about your installation.

ⓐ Screen size (diagonal)		4 : 3 screen								16 : 9 screen							
		ⓑ Projection distance				ⓒ1 Screen height		ⓒ2 Screen height		ⓑ Projection distance				ⓒ1 Screen height		ⓒ2 Screen height	
		min.		max.						min.		max.					
type (inch)	m	m	inch	m	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch
30	0.8	0.9	34	1.0	41	41	16	5	2	1.0	38	1.1	45	39	15	-1	0
40	1.0	1.2	46	1.4	55	55	22	6	2	1.3	51	1.5	60	51	20	-2	-1
50	1.3	1.5	58	1.8	69	69	27	8	3	1.6	64	1.9	76	64	25	-2	-1
60	1.5	1.8	70	2.1	83	82	32	9	4	1.9	77	2.3	91	77	30	-2	-1
70	1.8	2.1	82	2.5	97	96	38	11	4	2.3	89	2.7	106	90	35	-3	-1
80	2.0	2.4	94	2.8	112	110	43	12	5	2.6	102	3.1	122	103	41	-3	-1
90	2.3	2.7	106	3.2	126	123	49	14	5	2.9	115	3.5	137	116	46	-4	-1
100	2.5	3.0	118	3.6	140	137	54	15	6	3.3	128	3.9	153	129	51	-4	-2
120	3.0	3.6	142	4.3	168	165	65	18	7	3.9	154	4.7	183	154	61	-5	-2
150	3.8	4.5	177	5.3	211	206	81	23	9	4.9	193	5.8	229	193	76	-6	-2
200	5.1	6.0	237	7.1	281	274	108	30	12	6.6	258	7.8	306	257	101	-8	-3
250	6.4	7.5	297	8.9	352	343	135	38	15	8.2	323	9.7	383	322	127	-10	-4
300	7.6	9.0	356	10.7	422	411	162	46	18	9.9	388	11.7	460	386	152	-12	-5

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Arrangement (continued)

⚠**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 or somewhere else.

►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 place 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.

►Use only the mounting accessories the manufacturer specified, and leave installing and removing the projector with the mounting accessories to the service personnel.

- Read and keep the user's manual of the mounting accessories used.

⚠**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.

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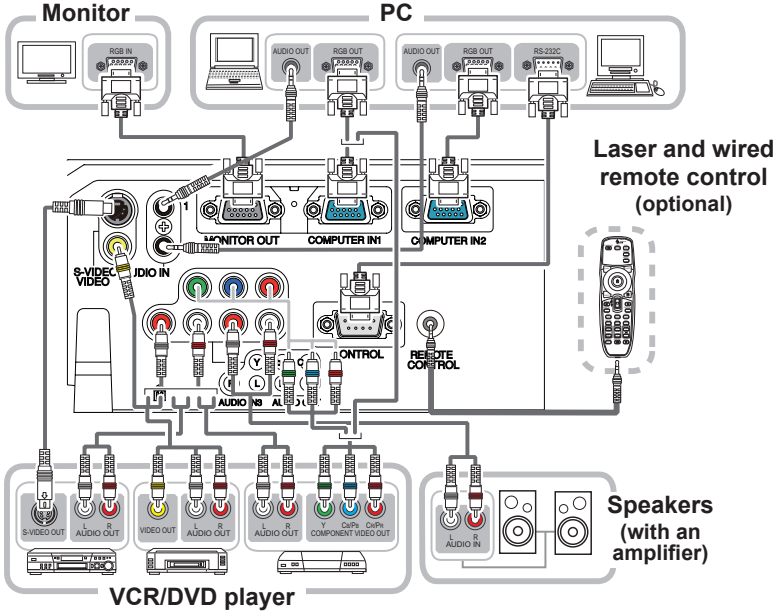
Connecting your devices

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.



⚠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 designated cables. Ask your dealer about non-accessory cables which may be required a specific length or a ferrite core by the regulations. 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.

NOTICE►Use the cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.

NOTE • The **COMPUTER IN1/2** port can support a component signal also. The specific adapter or the specific cable is required for a component video input to the projector.
• To connect the **laser and wired remote control (optional)** with the projector, use a cable with 3.5mm diameter stereo mini plugs.

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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 a computer 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.

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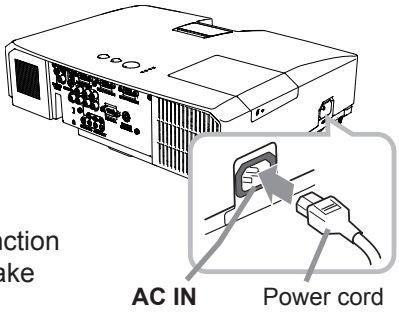
Connecting power supply

1. Put the connector of the power cord into the **AC IN** (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.

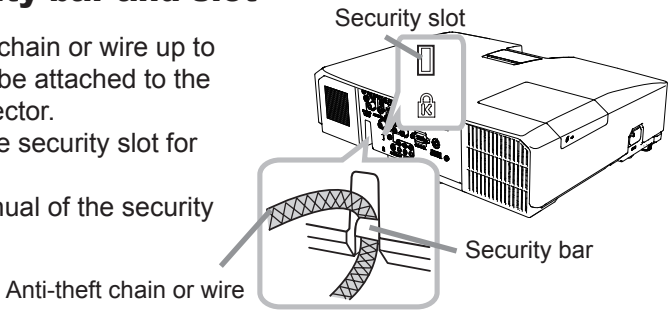
Please remember that when the DIRECT ON function activated, the connection of the power supply make the projector turn on.



⚠**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, consult your dealer to get a new one.
• Only plug the power cord into an outlet whose voltage is matched to the power cord. 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 bar and slot

A commercial anti-theft chain or wire up to 10 mm in diameter can be attached to the security bar on the projector.
Also 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 bar and slot to prevent the projector from falling down, since it is not designed for it.

⚠**CAUSTION** ►Do not place anti-theft chain or wire near the exhaust vents. It may become too hot.

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

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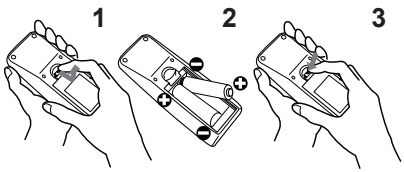
Remote control

Installing the batteries

Please insert the batteries into 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.

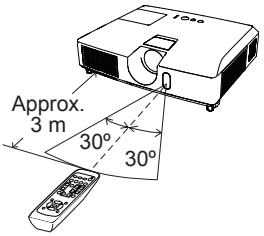
1. Holding the hook part of the battery cover, remove it.
2. Align and insert the two AA batteries **(HITACHI MAXELL, Part No. LR6 or R6P)** according to their plus and minus terminals as indicated in the remote control.
3. Replace the battery cover in the direction of the arrow and snap it back into 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 place a battery in a fire or water. Keep batteries in a dark, cool and dry place.
• If you observe battery leakage, wipe out the leakage and then replace a battery. If the leakage adheres to 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.

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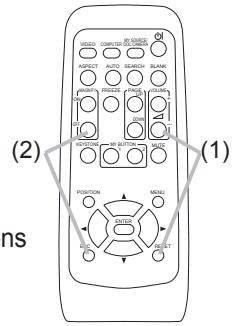
Changing the frequency of remote control signal

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 the two buttons listed below simultaneously for about 3 seconds.



(1) Set to Mode 1:NORMAL... the **VOLUME -** and the **RESET** buttons
(2) Set to Mode 2:HIGH... the **MAGNIFY OFF** and the **ESC** buttons

Please remember that the REMOTE FREQ. in the SERVICE item of the OPTION menu of the projector to be controlled should be set to the same mode as the remote control.

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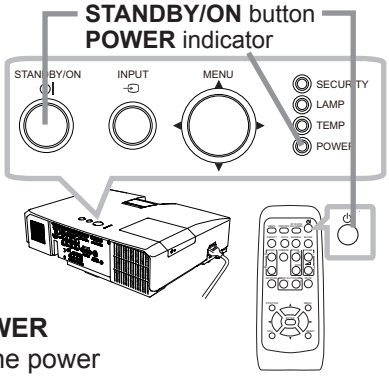
Power on/off

Turning on the power



1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.
2. Make sure that the **POWER** indicator is steady orange. Then remove the lens cover.
3. 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”.

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 or more 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.

NOTE • Turn the power on/off in right order. Please power on the projector prior to the connected devices.
• This projector has the function that can make the projector automatically turn on/off. Please refer to the DIRECT ON and the AUTO OFF items of the OPTION menu.
• Use the shutdown switch only when the projector is not turned off by normal procedure.

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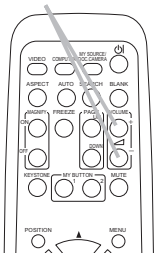
Operating

Adjusting the volume

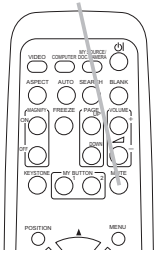
VOLUME +/- buttons



1. Use the **VOLUME +/-** buttons to adjust the volume.
   A dialog will appear on the screen to aid you in adjusting the volume. If you do not do anything, the dialog will automatically disappear after a few seconds.
   - When 🔇 is selected for current picture input port, the volume adjustment is disabled. Please see the AUDIO SOURCE item of the AUDIO menu.
   - When the projector is in the standby state, the volume can be adjusted if 🔇 is not selected for the AUDIO OUT STANDBY and the NORMAL is selected to the STANDBY MODE in the SETUP menu.

Temporarily muting the sound

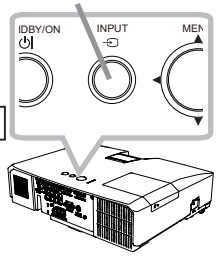
MUTE button



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**, **VOLUME +** or **VOLUME -** button. Even if you do not do anything, the dialog will automatically disappear after a few seconds.
   - When 🔇 is selected for current picture input port, the sound is always muted. Please see the AUDIO SOURCE item of the AUDIO menu.
   - The C.C. (Closed Caption) is automatically activated when sound is muted and an input signal containing C.C. is received. This function is available only when the signal is NTSC for the **VIDEO** or **S-VIDEO**, or 480i@60 for the **COMPONENT**, **COMPUTER IN1** or **COMPUTER IN2**, and when the AUTO is selected for the DISPLAY in the C.C. menu under the SCREEN menu.

Selecting an input signal

INPUT button



1. Press the **INPUT** button on the projector.
   Each time you press the button, the projector switches its input port from the current port as below.

   → COMPUTER IN 1 → COMPUTER IN 2 ←
   VIDEO ← S-VIDEO ← COMPONENT (Y, Cb/Pb, Cr/Pr) ←

   - While the ON is selected for the AUTO SEARCH item in the OPTION menu, the projector will keep checking the ports in above order repeatedly till an input signal is detected.

(continued on next page)

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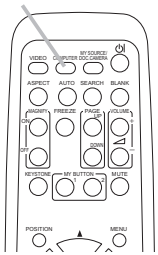
Selecting an input signal (continued)

1. Press the **COMPUTER** button on the remote control. Each time you press the button, the projector switches its input port from the current port as below.

   → COMPUTER IN 1 → COMPUTER IN 2 ┐
   ┘

COMPUTER button

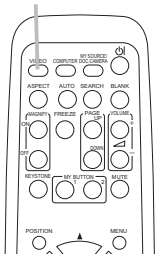


- While the ON is selected for the AUTO SEARCH item in the OPTION menu, the projector will keep checking every port sequentially till an input signal is detected. If the **COMPUTER** button is pressed when the **VIDEO**, **S-VIDEO** or **COMPONENT** port is selected, the projector will check the **COMPUTER IN1** port first.

1. Press the **VIDEO** button on the remote control. Each time you press the button, the projector switches its input port from the current port as below.

   COMPONENT (Y, Cb/Pb, Cr/Pr) → S-VIDEO → VIDEO
   ↑ ┘

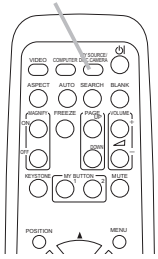
VIDEO button



- While ON is selected for AUTO SEARCH item in OPTION menu, the projector will keep checking every port sequentially till an input signal is detected. If the **VIDEO** button is pressed when the **COMPUTER IN1** or the **COMPUTER IN2** port is selected, the projector will check the **COMPONENT** port first.

1. Press the **MY SOURCE / DOC. CAMERA** button on the remote control. The input signal will be changed into the signal you set as the MY SOURCE.

MY SOURCE / DOC. CAMERA button



- This function also can use for document camera. Select the input port that connected the document camera.

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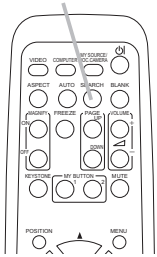
Searching an input signal

SEARCH button



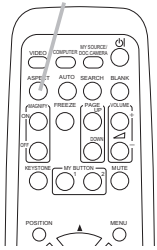
1. Press the **SEARCH** button on the remote control.
   The projector will start to check its input ports as below in order to find any input signals.
   When an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected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

   → COMPUTER IN 1 → COMPUTER IN 2 →
   VIDEO ← S-VIDEO ← COMPONENT (Y, Cb/Pb, Cr/Pr) ←

- While the ON is selected for the AUTO SEARCH item in the OPTION menu, the projector will keep checking the ports in above order repeatedly till an input signal is detected.

Selecting an aspect ratio

ASPECT button



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 computer signal**
NORMAL → 4:3 → 16:9 → 16:10 →

❍ **For a video signal, s-video signal or component video signal**
4:3 → 16:9 → 14:9 →

❍ **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.

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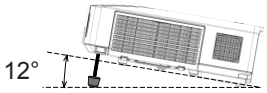
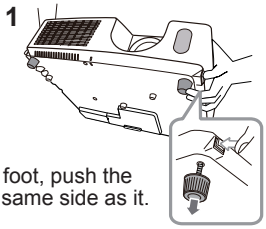
Adjusting the projector's elevator

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 12 degrees.

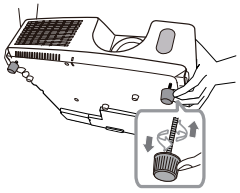


This projector has 2 elevator feet and 2 elevator buttons. An elevator foot is adjustable while pushing the elevator button on the same side as it.

1. Holding the projector, push the elevator buttons to loose the elevator feet.
2. Position the front side of the projector to the desired height.
3. Release the elevator buttons in order to lock the elevator feet.
4. After making sure that the elevator feet are locked, put the projector down 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, push the elevator button on the same side as it.

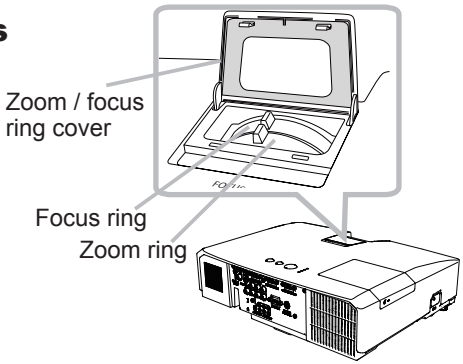


To finely adjust, twist the foot.

⚠**CAUTION** ►Do not handle the elevator buttons without holding the projector, since the projector may drop down.
►Do not tilt the projector other than elevating its front within 12 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. Open the zoom / focus ring cover.
2. Use the zoom ring to adjust the screen size.
3. Use the focus ring to focus the picture.



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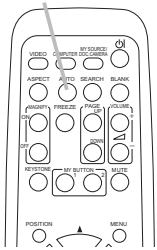
Using the automatic adjustment feature

AUTO button



1. Press the **AUTO** button on the remote control.
   Pressing this button performs the following.

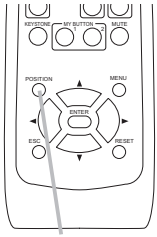
   ❍ **For a computer signal**
   The vertical position, the horizontal position and the horizontal phase will be automatically adjusted.
   Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright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

   ❍ **For a video signal and s-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. The vertical position and horizontal position will be automatically set to the default.

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

- The automatic adjustment operation requires approx. 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.
- When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the PC model.
- The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu.

Adjusting the position



POSITION button

1. Press the **POSITION** button on the remote control when no menu is indicated.
   The “POSITION” indication will appear on the screen.
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 setting. It is not possible to adjust when the OVER SCAN is set to 10.
- If the **POSITION** button is pressed when a menu is indicated on screen, the displayed picture does not move its position but the menu does.

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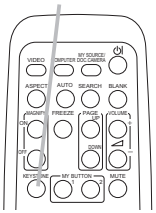
Correcting the keystone distortions

KEYSTONE button



1. Press the **KEYSTONE** button on the remote control. A dialog will appear on the screen to aid you in correcting the distortion.

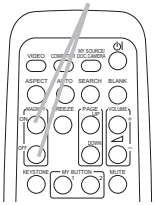
2. Use the ▲/▼ cursor buttons to select the AUTO or the MANUAL operation, and press the ► cursor (or the **ENTER**) button to perform the following.
   (1) AUTO executes automatic vertical keystone correction.
   (2) MANUAL displays a dialog for keystone correction.
   Use the ◄/► cursor buttons for 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.

- The adjustable range of this function will vary among inputs. For some input, this function may not work well.
- When the V:INVERT or the H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, automatic vertical keystone correction 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 ±3°), 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 the Transition Detector is on.

Using the magnify feature

MAGNIFY ON/OFF buttons



1. Press the **ON** button of the **MAGNIFY** on the remote control. The “MAGNIFY” indication will appear on the screen and the projector will go into the MAGNIFY mode. When the **ON** button of the **MAGNIFY** is pressed first after the projector is started, the picture will be zoomed twice. The indication will disappear in several seconds with no operation.

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 the **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.
- 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.

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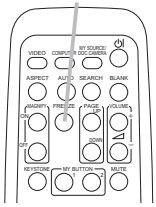
Temporarily freezing the screen

FREEZE button

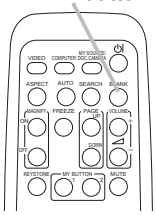


1. Press the **FREEZE** button on the remote control.
   The "FREEZE" indication will appear on the screen (however, the indication will not appear when the OFF is selected for the MESSAGE item in the SCREEN menu), and the projector will go into the FREEZE mode, which the picture is frozen.
   To exit the FREEZE mode and restore the screen to normal, press the **FREEZE** button again.

- The projector automatically exits from the FREEZE mode when some control buttons are 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.
- Images might appear degraded when this function is operated, but it is not a malfunction.

Temporarily blanking the screen

BLANK button



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

- The projector automatically exits from the BLANK mode when some control buttons are pressed.

⚠**CAUTION** ►If you wish to have a blank screen while the projector's lamp is on, take one of items below.
• Use the lens cover as it is, which is supplied with the projector
• Use the BLANK function above.
Taking any other action may cause the damage on the projector.

NOTE • The sound is not connected with the BLANK screen function. If necessary, set the volume or mute first. To display the BLANK screen and mute the sound at one time, use the AV MUTE function.

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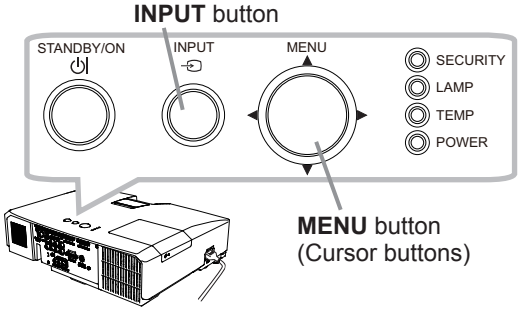
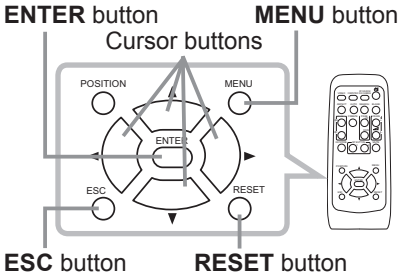
Using the menu function

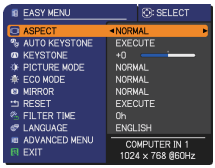
This projector has the following menus:
PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, SECURITY and EASY MENU.
The EASY MENU consists of functions often used, and the other menus are classified into each purpose and brought together as the ADVANCED MENU. Each of these menus is operated using the same methods. While the projector is displaying any menu, the **MENU** button on the projector works as the cursor buttons. The basic operations of these menus are as follows.





1. To start the MENU, press the **MENU** button. The MENU you last used (EASY or ADVANCED) will appear. The EASY MENU has priority to appear just after powered on.

2. **In the EASY MENU**



(1) Use the ▲/▼ cursor buttons to select an item to operate. If you want to change it to the ADVANCED MENU, select the ADVANCED MENU.
(2) Use the ◄/► cursor buttons to operate the item.

In the ADVANCED MENU

(1) Use the ▲/▼ cursor buttons to select a menu. If you want to change it to the EASY MENU, select the EASY MENU.
The items in the menu appear on the right side.
(2) Press the ► cursor (or the **ENTER**) button to move the cursor to the right side. Then use the ▲/▼ cursor buttons to select an item to operate and press the ► cursor (or the **ENTER**) button to progress. The operation menu or dialog of the selected item will appear.
(3) Use the buttons as instructed in the OSD to operate the item.

(continued on next page)

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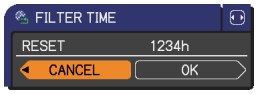
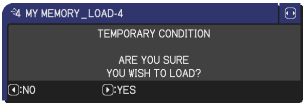
Using the menu function (continued)

3. To close the MENU, press the **MENU** button again or select the EXIT and press the ◄ cursor (or the **ENTER**) button. Even if you do not do anything, the dialog will automatically disappear after about 30 seconds.

- If you want to move the menu position, use the cursor buttons after pressing the **POSITION** button.
- 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, VOLUME) cannot be reset.
- In the ADVANCED MENU, when you want to return to the previous display, press the ◄ cursor (or the **ESC**) button on the remote control.

Indication in OSD (On Screen Display)





The meanings of the general words on the OSD are as follows.

Indication	Meaning
EXIT	Selecting this word finishes the OSD menu. It's the same as pressing the **MENU** button on the remote control.
RETURN	Selecting this word returns the menu to the previous menu.
CANCEL or NO	Selecting this word cancels the operation in the present menu and returns to the previous menu.
OK or YES	Selecting this word executes the prepared function or shifts the menu to the next menu.

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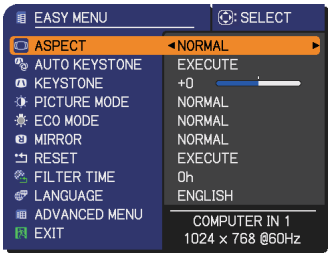
EASY MENU

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.



<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>ASPECT</td><td>Using the ◄/► cursor buttons switches the mode for aspect ratio.
See the ASPECT item in the IMAGE menu.</td></tr>
<tr><td>AUTO KEYSTONE (EXECUTE)</td><td>Using the ► cursor (or the ENTER) button executes the auto keystone function.
See the AUTO KEYSTONE (EXECUTE) item in the SETUP menu.</td></tr>
<tr><td>KEYSTONE</td><td>Using the ◄/► cursor buttons corrects the vertical keystone distortion.
See the KEYSTONE item in the SETUP menu.</td></tr>
<tr><td>PICTURE MODE</td><td>Using the ◄/► cursor buttons switches the picture mode.
The picture modes are combinations of the GAMMA and the COLOR TEMP settings. Choose a suitable mode according to the projected source.
⇨ NORMAL ⇔ CINEMA ⇔ DYNAMIC ⇔ BOARD(BLACK) ⇦
⇨ DAYLIGHT ⇔ WHITEBOARD ⇔ BOARD(GREEN) ⇦
<table>
<tr><td></td><td>GAMMA</td><td>COLOR TEMP</td></tr>
<tr><td>NORMAL</td><td>1 DEFAULT</td><td>2 MID</td></tr>
<tr><td>CINEMA</td><td>2 DEFAULT</td><td>3 LOW</td></tr>
<tr><td>DYNAMIC</td><td>3 DEFAULT</td><td>1 HIGH</td></tr>
<tr><td>BOARD(BLACK)</td><td>4 DEFAULT</td><td>4 Hi-BRIGHT-1</td></tr>
<tr><td>BOARD(GREEN)</td><td>4 DEFAULT</td><td>5 Hi-BRIGHT-2</td></tr>
<tr><td>WHITEBOARD</td><td>5 DEFAULT</td><td>2 MID</td></tr>
<tr><td>DAYLIGHT</td><td>6 DEFAULT</td><td>6 Hi-BRIGHT-3</td></tr>
</table>
• When the combination of the GAMMA and the COLOR TEMP differs from pre-assigned modes above, the display on the menu for the PICTURE MODE is “CUSTOM”. Please refer to the GAMMA and the COLOR TEMP items in the PICTURE menu.
• Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction.</td></tr>
</table>

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Item	Description
ECO MODE	Using the ◄/► cursor buttons turns off/on the eco mode. See the ECO MODE item in the SETUP menu.
MIRROR	Using the ◄/► cursor buttons switches the mode for mirror status. See the MIRROR item in the SETUP menu.
RESET	Performing this item resets all of the EASY MENU items except the FILTER TIME and the LANGUAGE. A dialog is displayed for confirmation. Selecting the OK using the ► cursor button performs resetting.
FILTER TIME	The usage time of the air filter is shown in the menu. Performing this item resets the filter time which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting the OK using the ► cursor button performs resetting. See the FILTER TIME item in the OPTION menu.
LANGUAGE	Using the ◄/► cursor buttons changes the display language. See the LANGUAGE item in the SCREEN menu.
ADVANCED MENU	Press the ► **cursor (or the ENTER**) button to use the ADVANCED MENU.
EXIT	Press the ◄ cursor (or the **ENTER**) button to finish the OSD menu.

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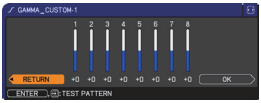
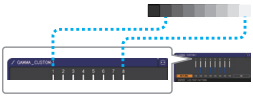
PICTURE menu

From the PICTURE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item. Then perform it according to the following table.

Item	Description
BRIGHTNESS	Using the ◄/► cursor buttons adjusts the brightness. Dark ⇔ Light
CONTRAST	Using the ◄/► cursor buttons adjusts the contrast. Weak ⇔ Strong
GAMMA	Using the ▲/▼ cursor buttons switches the gamma mode. 1 DEFAULT ⇔ 1 CUSTOM ⇔ 2 DEFAULT ⇔ 2 CUSTOM ⇔ 3 DEFAULT ⇳ ⇳ 6 CUSTOM 3 CUSTOM ⇳ ⇳ 6 DEFAULT ⇔ 5 CUSTOM ⇔ 5 DEFAULT ⇔ 4 CUSTOM ⇔ 4 DEFAULT **To adjust CUSTOM** Selecting a mode whose name includes the CUSTOM and then pressing the ► cursor (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.  Choose an item using the ◄/► cursor buttons, and adjust the level using the ▲/▼ cursor buttons. You can display a test pattern for checking the effect of your adjustment by pressing the **ENTER** (or the **INPUT**) button. Each time you press the **ENTER** (or the **INPUT**) button, the pattern changes as below. No pattern ⇨ Gray scale of 9 steps ⇨ ⇦ Ramp ⇦ Gray scale of 15 steps The eight equalizing bars correspond to eight tone levels of the test pattern (Gray scale of 9 steps) except the darkest in the left end. If you want to adjust the 2nd tone from left end on the test pattern, 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.  • Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction.

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Item	Description
COLOR TEMP	Using the ▲/▼ cursor buttons switches the color temperature mode. 1 HIGH ⇔ 1 CUSTOM ⇔ 2 MID ⇔ 2 CUSTOM ⇕ ⇕ 6 CUSTOM 3 LOW ⇕ ⇕ 6 Hi-BRIGHT-3 3 CUSTOM ⇕ ⇕ 5 CUSTOM ⇔ 5 Hi-BRIGHT-2 ⇔ 4 CUSTOM ⇔ 4 Hi-BRIGHT-1 **To adjust CUSTOM** Selecting a mode whose name includes the CUSTOM and then pressing the ► cursor (or the **ENTER**) button displays a dialog to aid you in adjusting the OFFSET and GAIN of the selected mode. The OFFSET adjustments change the color intensity on the whole tones of the test pattern. GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern. Choose an item using the ◄/► cursor buttons, and adjust the level using the ▲/▼ cursor buttons. You can display a test pattern for checking the effect of your adjustment by pressing the **ENTER** (or the **INPUT**) button. Each time you press the **ENTER** (or the **INPUT**) button, the pattern changes as below. No pattern ⇨ Gray scale of 9 steps ⇨ ⇦ Ramp ⇦ Gray scale of 15 steps • Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction.
COLOR	Using the **◄/► cursor buttons adjusts the strength of whole color.** **Weak** ⇔ Strong • This item can be selected only for a video, s-video and component video signal.
TINT	Using the **◄/► cursor buttons adjusts the tint.** **Reddish** ⇔ Greenish • This item can be selected only for a video, s-video and component video signal.
SHARPNESS	Using the **◄/► cursor buttons adjusts the sharpness.** **Weak** ⇔ Strong • 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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Item	Description
ACTIVE IRIS	Using the ▲/▼ cursor buttons changes the active iris control mode. PRESENTATION ⇔ THEATER ⇔ OFF PRESENTATION : The active iris displays the best presentation image for both bright and dark scenes. THEATER : The active iris displays the best theater image for both bright and dark scenes. OFF : The active iris is always open. • The screen may flicker when the PRESENTATION or the THEATER modes are selected. If this occurs select OFF.
MY MEMORY	This projector has 4 memories for adjustment data (for all the items of the PICTURE menu). Selecting a function using the ▲/▼ cursor buttons and pressing the ► **cursor (or the ENTER**) button performs each function. SAVE-1 ⇔ SAVE-2 ⇔ SAVE-3 ⇔ SAVE-4 LOAD-4 ⇔LOAD-3 ⇔ LOAD-2 ⇔ LOAD-1 SAVE-1, SAVE-2, SAVE-3, SAVE-4 Performing a SAVE function saves the current adjustment data into the memory linked in the number included in the function's name. • Remember that the current data being stored of a memory will be lost by saving new data into the memory. LOAD-1, LOAD-2, LOAD-3, LOAD-4 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. • 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. • You can perform the LOAD function using the **MY BUTTON**s. Please see the MY BUTTON item in the OPTION menu.

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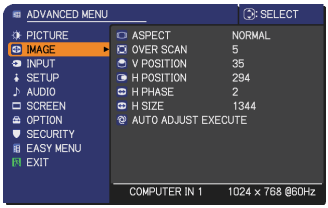
IMAGE menu

From the IMAGE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item. Then perform it according to the following table.



Item	Description
ASPECT	Using the ▲/▼ cursor buttons switches the mode for aspect ratio. **For a computer signal** NORMAL ⇔ 4:3 ⇔ 16:9 ⇔ 16:10 **For a video signal, s-video signal or component video signal** 4:3 ⇔ 16:9 ⇔ 14:9 **For no signal** 4:3 (fixed) • The NORMAL mode keeps the original aspect ratio of the signal.
OVER SCAN	Using the **◄/► cursor buttons adjusts the over-scan ratio.** **Small (It magnifies picture)** ⇔ Large (It reduces picture) • 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	Using the **◄/► cursor buttons adjusts the vertical position.** **Down** ⇔ Up • 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 on the remote control 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 setting. It is not possible to adjust when the OVER SCAN is set to 10.
H POSITION	Using the **◄/► cursor buttons adjusts the horizontal position.** **Left** ⇔ Right • 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 on the remote control 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 setting. It is not possible to adjust when the OVER SCAN is set to 10.

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Item	Description
H PHASE	Using the ◄/► **cursor buttons adjusts the horizontal phase to eliminate flicker.** **Right** ⇔ Left • This item can be selected only for a computer signal or a component video signal.
H SIZE	Using the ◄/► **cursor buttons adjusts the horizontal size.** **Small** ⇔ Large • 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 on the remote control during this operation. • Images might appear degraded when this function is operated, but it is not a malfunction.
AUTO ADJUST EXECUTE	Selecting this item performs the automatic adjustment feature. **For a computer signal** The vertical position, the horizontal position and the horizontal phase will be automatically adjusted. 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 and s-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. The vertical position and horizontal position will be automatically set to the default. **For a component video signal** The vertical position, horizontal position and horizontal phase will be automatically set to the default. • The automatic adjustment operation requires approx. 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. • When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the PC model. • The items adjusted by this function may vary when the FINE or the DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu.

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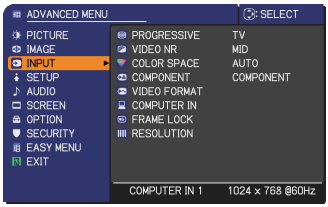
INPUT menu

From the INPUT menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item. Then perform it according to the following table.



Item	Description
PROGRESSIVE	Using the ▲/▼ cursor buttons switches the progress mode. TV ⇔ FILM ⇔ OFF • This function is performed only for a video signal, s-video signal or component video signal of 480i@60 or 576i@50. • When the TV or the FILM is selected, the screen image will be sharp. The 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 the OFF, even though the screen image may lose sharpness.
VIDEO NR	Using the ▲/▼ cursor buttons switches the noise reduction mode. HIGH ⇔ MID ⇔ LOW • This function is performed only for a video signal, s-video signal or component video signal of 480i@60 or 576i@50. • When this function is excessive, it may cause a certain degradation of the picture.
COLOR SPACE	Using the ▲/▼ cursor buttons switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 • This item can be selected only for a computer signal or a component video signal (except SCART RGB). • 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 the AUTO.
COMPONENT	Using the ▲/▼ cursor buttons switches the function of the **COMPONENT (Y, Cb/Pb, Cr/Pr)** port. COMPONENT ⇔ SCART RGB When the SCART RGB is selected, the **COMPONENT** (**Y, Cb/Pb, Cr/Pr)** and the **VIDEO** ports will function as a SCART RGB port. A SCART adapter or SCART cable is required for a SCART RGB input to the projector. For details, contact your dealer.

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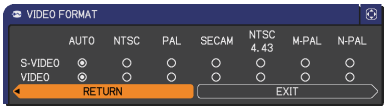
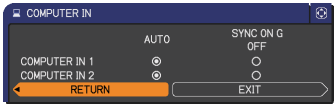
Item	Description
VIDEO FORMAT	The video format for the **S-VIDEO** port and the **VIDEO** port can be set. (1) Use the ▲/▼ cursor buttons to select the input port. S-VIDEO ⇔ VIDEO (2) Using the ◄/► cursor buttons switches the mode for video format. AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ⇔ N-PAL ⇔ M-PAL ⇔ NTSC4.43 ⇔  • 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.
COMPUTER IN	The computer input signal type for the **COMPUTER IN1** and **IN2** ports can be set. (1) Use the ▲/▼ cursor buttons to select the **COMPUTER IN** port to be set. COMPUTER IN1 ⇔ COMPUTER IN2 (2) Use the ◄/► cursor buttons to select the computer input signal type. AUTO ⇔ SYNC ON G OFF  • Selecting the AUTO mode allows you to input a sync on G signal or component video from the port. • In the AUTO mode, the picture may be distorted with certain input signals. In such a case, remove the signal connector so that no signal is received and select the SYNC ON G OFF, and then reconnect the signal. • The **COMPUTER IN1/2** port can support a component signal also.
FRAME LOCK	Set the frame lock function on/off for each port. (1) Use the ▲/▼ cursor buttons to select the input ports. COMPUTER IN1 ⇔ COMPUTER IN2 (2) Use the ◄/► cursor buttons to turn the frame lock function on/off. ON ⇔ OFF • This item can be performed only on a signal with a vertical frequency of 50 to 60 Hz. • When the ON is selected, moving pictures are displayed more smoothly. • This function may cause a certain degradation of the picture. In such a case, please select the OFF.

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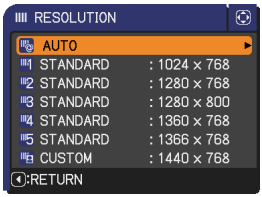
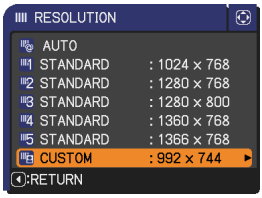
Item	Description
RESOLUTION	The resolution for the **COMPUTER IN1** and the **COMPUTER IN2** input signals can be set on this projector. In the RESOLUTION menu select the resolution you wish to display using the ▲/▼ cursor buttons.  ■AUTO Selecting AUTO will set a resolution appropriate to the input signal. ■STANDARD Pressing the ► cursor (or the **ENTER**) button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size. The INPUT_INFORMATION dialog will be displayed. STANDARD ↓ ■CUSTOM (1) To set a custom resolution use the ▲/▼ cursor buttons to select the CUSTOM and the RESOLUTION_CUSTOM box will be displayed. Set the horizontal (HORZ) and vertical (VERT) resolutions using the ▲/▼/◄/► cursor buttons. This function is may not support all resolutions. CUSTOM ↓ (2) Move the cursor to the OK on screen and press the ► cursor (or the **ENTER**) button. The message "ARE YOU SURE YOU WISH TO CHANGE RESOLUTION?" appears. To save the setting, press the ► cursor button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted. To revert back to the previous resolution without saving changes, move the cursor to the CANCEL on screen and press the ◄ cursor (or the **ENTER**) button. The screen will then return to the RESOLUTION menu displaying the previous resolution. • For some pictures, this function may not work well. 

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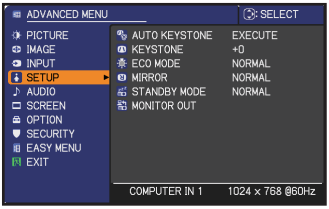
SETUP menu

From the SETUP menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) buttonn to execute the item. Then perform it according to the following table.



Item	Description
AUTO KEYSTONE (EXECUTE)	Selecting this item performs the Automatic keystone distortion correction. Projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle by itself. This function will be executed only once when selected in the menu. When the slant of the projector is changed, execute this function again. • The adjustable range of this function will vary among inputs. For some input, this function may not work well. • When the V:INVERT or the 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 ±3°), 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.
KEYSTONE	Using the ◄/► cursor buttons corrects the vertical keystone distortion. Shrink the bottom of the image ⇔ Shrink the top of the image • The adjustable range of this function will vary among inputs. For some input, this function may not work well. • 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. • This function will be unavailable when the Transition Detector is on.
ECO MODE	Using the ▲/▼ cursor buttons turns off/on the eco mode. NORMAL ⇔ ECO • When the ECO is selected, acoustic noise and screen brightness are reduced.

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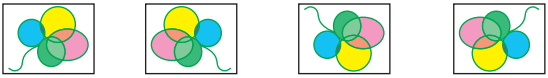
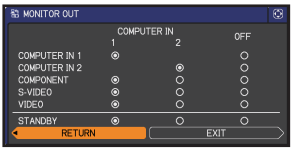
Item	Description
MIRROR	Using the ▲/▼ cursor buttons switches the mode for mirror status.  NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&V:INVERT If the Transition Detector is on and the MIRROR status is changed, the TRANSITION DETECTOR ON alarm will be displayed when projector is restarted after the AC power is turned off.
STANDBY MODE	Using ▲/▼ cursor buttons switches the standby mode setting between the NORMAL and the SAVING. NORMAL ⇔ SAVING When the SAVING is selected, the power consumption in the standby state is lowered with some functional restriction as below: • When the SAVING is selected, the RS-232C communication control is disabled except to turn the projector on while the projector is in the standby state. • When the SAVING is selected, the AUDIO OUT STANDBY setting of the AUDIO SOURCE is invalid, and no signal is output from the **AUDIO OUT** ports in the standby state.
MONITOR OUT	The combination of a picture shown on screen and output from the **MONITOR OUT** port can be arranged in the menu. The picture coming into the port selected in the (2) is output to the **MONITOR OUT** port while an image from the port chosen in the (1) is on screen. (1) Choose a picture input port using ▲/▼ cursor buttons. COMPUTER IN1 ⇔ COMPUTER IN2 ⇕ ⇕ STANDBY ⇕ ⇕ COMPONENT VIDEO ⇔ S-VIDEO ⇔ (Y, Cb/Pb, Cr/Pr)  • Choose the STANDBY, to select the output signal from the **MONITOR OUT** port in the standby state. (2) Select one of the **COMPUTER IN** ports using the ◄/► cursor buttons. Choosing the COMPUTER IN1 allows the following choice. COMPUTER IN1 ⇔ OFF Choosing the COMPUTER IN2 allows the following choice. COMPUTER IN2 ⇔ OFF Choosing other input or the STANDBY allows the following choice. COMPUTER IN1 ⇔ COMPUTER IN2 ⇔ OFF • The OFF disables the **MONITOR OUT** port.

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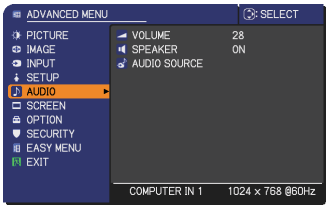
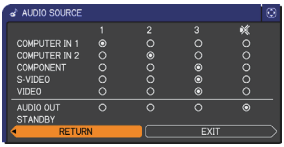
AUDIO menu

From the AUDIO menu, items shown in the table below can be performed. Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item. Then perform it according to the following table.



Item	Description
VOLUME	Using the ◄/► cursor buttons adjusts the volume. High ⇔ Low
SPEAKER	Using the ▲/▼ cursor buttons turns on/off the built-in speaker. ON ⇔ OFF When the OFF is selected, the built-in speaker does not work.
AUDIO SOURCE	The combination of a picture and audio input port can be arranged in the menu. The audio coming into the port selected in the (2) is output while an image from the port chosen in the (1) is on screen. (1) Choose a picture input port using the ▲/▼ cursor buttons. COMPUTER IN1 ⇔ COMPUTER IN2 ⇕ ⇕ AUDIO OUT STANDBY COMPONENT ⇕ VIDEO ⇔ S-VIDEO ⇔ (Y, Cb/Pb, Cr/Pr)  • Choose the AUDIO OUT STANDBY, to select the audio output to the **AUDIO OUT** ports in the standby state. The built-in speaker does not work in the standby state. • While the RETURN is selected, pressing the ◄ cursor (or the **ENTER**) button returns to the previous menu. (2) Select one of the **AUDIO IN** ports using the ◄/► cursor buttons. AUDIO IN1 ⇔ AUDIO IN2 ⇔ AUDIO IN3 ⇔ 🔇 • 🔇 disables the audio output. • The C.C. (Closed Caption) is automatically activated when 🔇 is selected and an input signal containing C.C. is received. This function is available only when the signal is NTSC for the **VIDEO** or the **S-VIDEO**, or 480i@60 for the **COMPONENT**, the **COMPUTER IN1** or the **COMPUTER IN2**, and when the AUTO is selected for the DISPLAY in the C.C. menu under the SCREEN menu.

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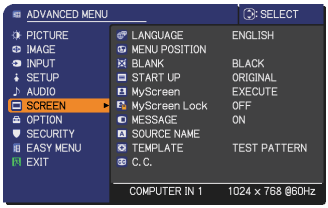
SCREEN menu

From the SCREEN menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item. Then perform it according to the following table.



Item	Description
LANGUAGE	Using the ▲/▼/◄/► cursor buttons switches the OSD (On Screen Display) language. ENGLISH, FRANÇAIS, DEUTSCH, ESPAÑOL... (shown in the LANGUAGE dialog) Press the **ENTER** (or the **INPUT**) button to save the language setting.
MENU POSITION	Using the ▲/▼/◄/► cursor buttons adjusts the menu position. To quit the operation, press the **MENU** button on the remote control or keep no operation for about 10 seconds.
BLANK	Using the ▲/▼ cursor buttons switches the mode for the blank screen. The blank screen is a screen for the temporarily blanking feature. It is displayed by pressing the **BLANK** button on the remote control. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK MyScreen : Screen can be registered by the MyScreen item. ORIGINAL : Screen preset as the standard screen. BLUE, WHITE, BLACK : Plain screens in each color. • To avoid remaining as an afterimage, the MyScreen or the ORIGINAL screen will change to the plain black screen after several minutes.
START UP	Using the ▲/▼ cursor 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. MyScreen ⇔ ORIGINAL ⇔ OFF MyScreen : The screen can be registered by the MyScreen item. ORIGINAL : The screen preset as the standard screen. OFF : Plain black screen. • To avoid remaining as an afterimage, the MyScreen or the ORIGINAL screen will change to the BLANK screen after several minutes. If also the BLANK screen is the MyScreen or the ORIGINAL, the plain black screen is instead used. • When the ON is selected to the MyScreen PASSWORD item in the SECURITY menu, the START UP is fixed to the MyScreen.

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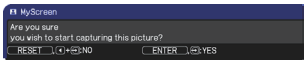
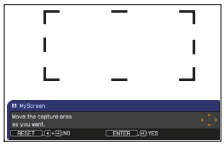
Item	Description
MyScreen	This item allows you to capture an image for use as a MyScreen image which can be used as the BLANK screen and the START UP screen. Display the image you want to capture before executing the following procedure. 1. Selecting this item displays a dialog titled “MyScreen”. It will ask you if you start capturing an image from the current screen.  Please wait for the target image to be displayed, and press the **ENTER** (or the **INPUT**) button when the image is displayed. The image will freeze and the frame for capturing will appear. To stop performing, press the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button. 2. Using the ▲/▼/◄/► cursor buttons adjusts the frame position. 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** (or the **INPUT**) button on the remote control. To restore the screen and return to the previous dialog, press the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button. Registration takes several minutes. When the registration is completed, the registered screen and the following message is displayed for several seconds: **“MyScreen registration is finished.”** If the registration failed, the following message is displayed: **“A capturing error has occurred. Please try again.”** • This function cannot be selected when the ON is selected to the MyScreen Lock item. • This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in the SECURITY menu.

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Item	Description
MyScreen Lock	Using the ▲/▼ cursor buttons turns on/off the MyScreen lock function. ON ⇔ OFF When the ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen. • This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in the SECURITY menu.
MESSAGE	Using the ▲/▼ cursor buttons turns on/off the message function. ON ⇔ OFF When the ON is selected, the following message function works. "AUTO IN PROGRESS" while automatically adjusting "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "INVALID SCAN FREQ." "NOT AVAILABLE" "Searching…." while searching for the input "Detecting…." while an input signal is detected 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 ACTIVE IRIS 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. The indication of the TEMPLATE displayed by changing. • When the OFF is selected, please remember if the picture is frozen. Do not mistake freezing for a malfunction.

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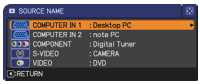
Item	Description
SOURCE NAME	Each input port for this projector can have a name applied to it. (1) Use the ▲/▼ cursor buttons on the SCREEN menu to select the SOURCE NAME and press the ► cursor (or the **ENTER**) button. The SOURCE NAME menu will be displayed. (2) Use the ▲/▼ cursor buttons on the SOURCE NAME menu to select the port to be named and press the ► cursor button. Right side of the menu is blank until a name is specified. The SOURCE NAME dialog will be displayed.  (3) The current name will be displayed on the first line. Use the ▲/▼/◄/► cursor buttons and the **ENTER** (or the **INPUT**)button to select and enter characters. To erase 1 character at one time, press the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button. Also if you move the cursor to the DELETE or the ALL CLEAR on screen and press the **ENTER** (or the **INPUT**) button, 1 character or all characters will be erased. The name can be a maximum of 16 characters. (4) To change an already inserted character, press the ▲ cursor button to move the cursor to the first line, and use the ◄/► cursor buttons to move the cursor on the character to be changed. After pressing the **ENTER** (or the **INPUT**) button, the character is selected. Then, follow the same procedure as described at the item (3) above. (5) To finish entering text, move the cursor to the OK on screen and press the ► cursor (or the **ENTER** / the **INPUT**) button. To revert to the previous name without saving changes, move the cursor to the CANCEL on screen and press the ◄ cursor (or the **ENTER** / the **INPUT**) button.
TEMPLATE	Using the ▲/▼ cursor buttons switches the mode for the template screen. Press the ► **cursor (or the ENTER**) button to display the selected template, and press the ◄ cursor button to close the displayed screen. The last selected template is displayed when the **MY BUTTON** allocated to the TEMPLATE function is pressed. TEST PATTERN ⇔ DOT-LINE1 DOT-LINE4 ⇔ DOT-LINE3 ⇔ DOT-LINE2

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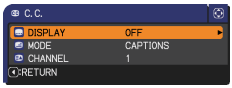
Item	Description
C.C. **(Closed Caption)**	The C.C. is the function that displays a transcript or dialog of the audio portion of a video, files or other presentation or other relevant sounds. It is required to have NTSC format video or 480i@60 format component video source supporting C.C. feature to utilize this function. It may not work properly, depending on equipment or signal source. In this case, please turn off the Closed Caption. 
	DISPLAY Select the Closed Caption DISPLAY setting from following options using the ▲/▼ cursor buttons. AUTO ⇔ ON ⇔ OFF AUTO : Closed Caption automatically displays when the volume is muted. ON : The Closed Caption is on. OFF : The Closed Caption is off. • The caption is not displayed when the OSD menu is active. • The Closed Caption is the function to display the dialogue, narration, and / or sound effects of a television program or other video sources. The Closed Caption availability is depending upon broadcaster and/or content.
	MODE Select the Closed Caption MODE setting from following options using the ▲/▼ cursor buttons. CAPTIONS ⇔ TEXT CAPTIONS : Display Closed Caption. TEXT : Display Text data, which is for additional information such as news reports or a TV program guide. The information covers the entire screen. Not all of the C.C. program has Text information.
	CHANNEL Select the Closed Caption CHANNEL from following options using the ▲/▼ cursor buttons. 1 ⇔ 2 ⇔ 3 ⇔ 4 1: Channel 1, primary channel / language 2: Channel 2 3: Channel 3 4: Channel 4 The channel data may vary, depending on the content. Some channel might be used for secondary language or empty.

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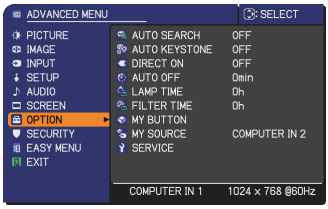
OPTION menu

From the OPTION menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button to execute the item, except for the items LAMP TIME and FILTER TIME. Then perform it according to the following table.



Item	Description
AUTO SEARCH	Using the ▲/▼ cursor buttons turns on/off the automatic signal search function. ON ⇔ OFF When the 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. ⇨ COMPUTER IN1 ⇨ COMPUTER IN2 ⇨ VIDEO ⇦ S-VIDEO ⇦ COMPONENT (Y, Cb/Cr, Cr/Pr) ⇦
AUTO KEYSTONE	Using the ▲/▼ cursor buttons turns on/off the automatic keystone function. ON ⇔ OFF ON : Automatic keystone distortion correction will be executed whenever changing the slant of the projector. OFF : This function is disabled. Please execute the AUTO KEYSTONE (EXECUTE) in the SETUP menu for automatic keystone distortion correction. • When the projector is suspended from the ceiling this feature will not function properly so select the OFF. • This function will be unavailable when the Transition Detector is on.
DIRECT ON	Using the ▲/▼ cursor buttons turns on/off the DIRECT ON function. ON ⇔ OFF When set to the ON, the lamp in projector will be automatically turned on without the usual procedure, only when the projector is supplied with the power after the power was cut while the lamp was on. • 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 DIRECT ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO OFF function is disabled.

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Item	Description
AUTO OFF	Using the ▲/▼ cursor buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE) 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 the “Turning off the power”.
LAMP TIME	The lamp time is the usage time of the lamp, counted after the last resetting. It is shown in the OPTION menu. Pressing the ► cursor (or the **ENTER** / the **RESET**) button displays a dialog. To reset the lamp time, select the OK using the ► cursor button. CANCEL ⇨ OK • 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 the “Replacing the lamp”.
FILTER TIME	The filter time is the usage time of the air filter, counted after the last resetting. It is shown in the OPTION menu. Pressing the ► cursor (or the **ENTER** / the **RESET**) button displays a dialog. To reset the filter time, select the OK using the ► cursor button. CANCEL ⇨ OK • 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 the “Cleaning and replacing the air filter”.

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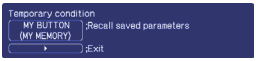
Item	Description
MY BUTTON	This item is to assign one of the following functions to the **MY BUTTON 1/2** on the remote control. (1) Use the ▲/▼ cursor buttons on the MY BUTTON menu to select a MY BUTTON - (1/2) and press the ► cursor (or the **ENTER**) button to display the MY BUTTON setup dialog. (2) Then using the ▲/▼/◄/► cursor buttons sets one of the following functions to the chosen button. Press the **ENTER** (or the **INPUT**) button to save the setting. • COMPUTER IN1: Sets port to the **COMPUTER IN1**. • COMPUTER IN2: Sets port to the **COMPUTER IN2**. • COMPONENT: Sets port to the **COMPONENT (Y, Cb/Pb, Cr/Pr)**. • S-VIDEO: Sets port to the **S-VIDEO**. • VIDEO: Sets port to the **VIDEO**. • INFORMATION: Displays the INPUT_INFORMATION or the SYSTEM_INFORMATION or nothing. • AUTO KEYSTONE : Performs automatic keystone distortion correction. • MY MEMORY: Loads one of adjustment data stored. When more than one data are saved, the adjustment changes every time the **MY BUTTON** is pressed. When no data is saved in memory, the dialog "No saved data" appears. When the current adjustment is not saved to memory, the dialog as shown in the right appears. If you want to keep the current adjustment, please press the ► cursor button to exit. Otherwise loading a data will overwrite the current adjusted condition.  • ACTIVE IRIS: Changes the active iris mode. • PICTURE MODE: Changes the PICTURE MODE. • FILTER RESET: Displays the filter time reset confirmation dialogue. • TEMPLATE: Makes the template pattern selected to the TEMPLATE item appear or disappear. • AV MUTE: Turns the picture and audio on/off.
MY SOURCE	Using the ▲/▼ cursor buttons selects the picture input port to be selected with pressing the **MY SOURCE/DOC.CAMERA** button on the remote control. Select the picture input that is connected with a document camera. ⇨ COMPUTER IN1 ⇔ COMPUTER IN2 ⇦ ⇨ VIDEO ⇔ S-VIDEO ⇔ COMPONENT ⇦

(continued on next page)

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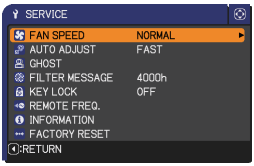
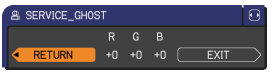
Item	Description
SERVICE	Selecting this item displays the SERVICE menu. Select an item using the ▲/▼ cursor buttons, and press the ► cursor (or the **ENTER**) button on the remote control to execute the item. 
	FAN SPEED Using the ▲/▼ cursor buttons switches the rotation speed of the cooling fans. The HIGH is the mode for use at highlands etc. Note that the projector is noisier when the HIGH is selected. HIGH ⇔ NORMAL
	AUTO ADJUST Using the ▲/▼ cursor buttons to select one of the mode. When the DISABLE is selected, the automatic adjustment feature is disabled. FINE ⇔ FAST ⇔ DISABLE FINE: Finer tuning including the H.SIZE adjustment. FAST: Faster tuning, setting the H.SIZE to prearranged data for the input signal. • 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 the DISABLE to disable the automatic adjustment, and make adjustment manually.
	GHOST 1. Select a color element of ghost using the ◄/► cursor buttons. 2. Adjust the selected element using the ▲/▼ cursor buttons to disappear ghost. 
	FILTER MESSAGE Use the ▲/▼ cursor button to set the timer for notifying by the message when to replace the filter unit 500h ⇔ 1000h ⇔ 2000h ⇔ 3000h ⇔ 4000h ⇔ 5000h ⇔ OFF After choosing an item except the OFF, the message the "REMINDER ***HRS PASSED ....." will appear after the timer reaches the interval time set by this feature. When the OFF is chosen, the message will not appear. Utilize this feature to keep the air filter clean, setting the suitable time according to your environment of this projector. • Please take care of the filter unit periodically, even if there is no message. If the air filter becomes to be blocked by dust or other matter, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector. • Please be careful with the operating environment of the projector and the condition of the filter unit.

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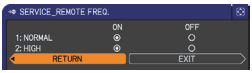
Item	Description
SERVICE (continued)	**KEY LOCK** Using the ▲/▼ cursor buttons turns on/off the key lock feature. When the ON is selected, the buttons on the projector except the **STANDBY/ON** button are locked. ON ⇔ OFF • Please use this function to prevent tampering or accidental operation. This function does not have any effect on the remote control.
	REMOTE FREQ. (1) Use the ▲/▼ cursor button to change the projector's remote sensor frequency setting. 1:NORMAL ⇔ 2:HIGH (2) Use the ◄/► cursor button to change the projector's remote sensor on or off. ON ⇔ OFF  The factory default setting is for both 1:NORMAL and 2:HIGH to be on. If the remote control does not function correctly, disable either of them. It's not possible to disable both options at the same time.
	INFORMATION Selecting this item displays a dialog titled "INPUT_INFORMATION". It shows the information about the current input. • The "FRAME LOCK" message on the dialog means the frame lock function is working. • The "SCART RGB" message means the **COMPONENT** port is working as a SCART RGB input port. Please refer to the COMPONENT item in INPUT menu. • This item can't be selected for no signal and sync out. • When the MY TEXT DISPLAY is set to ON, the MY TEXT is displayed together with the input information in the INPUT_INFORMATION box.
	FACTORY RESET Selecting the OK using the ► cursor 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, FILTER MESSAGE and SECURITY settings are not reset. CANCEL ⇨ OK

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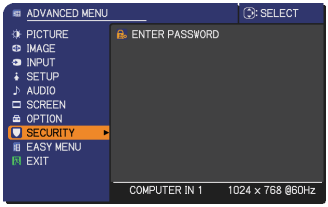
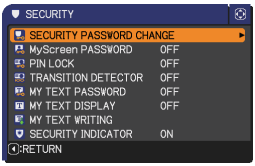
SECURITY menu



This projector is equipped with security functions.
From the SECURITY menu, items shown in the table below can be performed.
To use SECURITY menu: User registration is required before using the security functions.

Enter the SECURITY menu

1. Use the ▲/▼ cursor buttons on the SECURITY menu to select ENTER PASSWORD and press the ► cursor (or the **ENTER**) button. The ENTER PASSWORD box will be displayed.
2. Use the ▲/▼/◄/► cursor buttons to enter the registered password. The factory default password is **4401**. This password can be changed. Move the cursor to the right side of the ENTER PASSWORD box and press the ► cursor (or the **ENTER**) button to display the SECURITY menu.
   • It is strongly recommended the factory default password to be changed as soon as possible.
   • 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.



3. Items shown in the table below can be performed.

If you have forgotten your password

(1) While the ENTER PASSWORD box is displayed, press and hold the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button for about 3 seconds.

(2) The 10 digit Inquiring Code will be displayed. Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.

• If there is no key input for about 55 seconds while the Inquiring Code is displayed, the menu will close. If necessary, repeat the process from (1).

Item	Description
SECURITY PASSWORD CHANGE	(1) Use the ▲/▼ cursor buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► **cursor (or the ENTER**) button to display the ENTER NEW PASSWORD box. (2) Use the ▲/▼/◄/► cursor buttons to enter the new password. (3) Move the cursor to the right side of the ENTER NEW PASSWORD box and press the ► cursor (or the **ENTER**) button to display the NEW PASSWORD AGAIN box, enter the same password again. (4) Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► cursor (or the **ENTER**) button and the NOTE NEW PASSWORD box will be displayed for about 30 seconds, please make note of the password during this time. Pressing the ► cursor (or the **ENTER**) button will close the NOTE NEW PASSWORD box. • Please do not forget your password.

(continued on next page)

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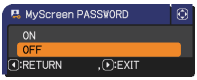
Item	Description
MyScreen PASSWORD	The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten. **1 Turning on the MyScreen PASSWORD** 1-1 Use the ▲/▼ cursor buttons on the SECURITY menu to select MyScreen PASSWORD and press the ► cursor (or the **ENTER**) button to display the MyScreen PASSWORD on/off menu.  1-2 Use the ▲/▼ cursor buttons on the MyScreen PASSWORD on/off menu to select ON. The ENTER NEW PASSWORD box (small) will be displayed. ENTER NEW PASSWORD box (small) 1-3 Use the ▲/▼/◄/► cursor buttons to enter the password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► cursor (or the **ENTER**) button to display the NEW PASSWORD AGAIN box, enter the same PASSWORD again. 1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► cursor (or the **ENTER**) button to display the NOTE NEW PASSWORD box for about 30 seconds, please make note of the password during this time. Pressing the ► cursor (or the **ENTER**) button will return to the MyScreen PASSWORD on/off menu. When a password is set for the MyScreen: • The MyScreen registration function (and menu) will be unavailable. • The MyScreen Lock menu will be unavailable. • The START UP setting will be locked on MyScreen (and the menu will be unavailable). Turning the MyScreen PASSWORD off will allow normal operation of these functions. • Please do not forget your MyScreen PASSWORD. **2 Turning off the MyScreen PASSWORD** 2-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu. 2-2 Select the OFF to display the ENTER PASSWORD box (large). Enter the registered password and the screen will return to the MyScreen PASSWORD on/off menu. ENTER PASSWORD box (large) If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 2-1. **3 If you have forgotten your password** 3-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu. 3-2 Select the OFF to display the ENTER PASSWORD box (large). The 10 digit Inquiring Code will be displayed inside the box. 3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.

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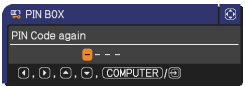
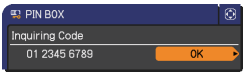
Item	Description
PIN LOCK	The PIN LOCK is a function which prevents the projector from being used unless a registered Code is input. **1 Turning on the PIN LOCK** 1-1 Use the ▲/▼ cursor buttons on the SECURITY menu to select PIN LOCK and press the ► cursor (or the **ENTER**) button to display the PIN LOCK on/off menu. 1-2 Use the ▲/▼ cursor buttons on the PIN LOCK on/off menu to select ON and the Enter PIN Code box will be displayed. 1-3 Input a 4 part PIN code using the ▲/▼/◄/► cursor and the **COMPUTER** (or the **INPUT**) button. The PIN Code again box will appear. Reenter the same PIN code. This will complete the PIN code registration.  • If there is no key input for about 55 seconds while the Enter PIN Code box or the PIN Code again box is displayed, the menu will close. If necessary, repeat the process from 1-1. Afterwards, anytime the projector is restarted after AC power is turned off the Enter PIN Code box will be displayed. Enter the registered the PIN code. The projector can be used after entering the registered the PIN code. If an incorrect PIN code is input, the Enter PIN code 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 Enter PIN code box is displayed. This function will activate only when the projector is started after AC power is turned off. • Please do not forget your PIN code. **2 Turning off the PIN LOCK** 2-1 Follow the procedure in 1-1 to display the PIN LOCK on/off menu. 2-2 Use the ▲/▼ cursor buttons to select the OFF and the Enter PIN Code box will be displayed. Enter the registered the PIN code to turn the PIN LOCK function off. If an incorrect the PIN Code is input 3 times, the menu will close. **3 If you have forgotten your PIN Code** 3-1 While the Enter PIN Code box is displayed, press and hold the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button for 3 seconds. The 10 digit Inquiring Code will be displayed.  • If there is no key input for about 5 minutes while the Inquiring Code is displayed, the projector will turn off. 3-2 Contact your dealer with the 10 digit Inquiring Code. Your PIN Code will be sent after your user registration information is confirmed.

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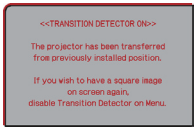
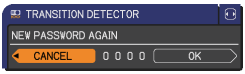
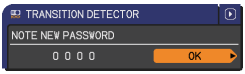
Item	Description
TRANSITION DETECTOR	If this function is set to the ON when the vertical angle of the projector or the MIRROR setting at which the projector is turned on is different than the previously recorded, the TRANSITION DETECTOR ON alarm will be displayed and the projector will not display the input signal.  • To display the signal again, set this function to the OFF. • After about 5 minutes of displaying the TRANSITION DETECTOR ON alarm, the lamp will turn off. • Keystone adjustment feature has been prohibited as long as the Transition Detector function is on. **1 Turning on the TRANSITION DETECTOR** 1-1 Use the ▲/▼ cursor buttons on the SECURITY menu to select the TRANSITION DETECTOR and press the ► cursor (or the **ENTER**) button to display the TRANSITION DETECTOR on/off menu. 1-2 Use the ▲/▼ cursor buttons on the TRANSITION DETECTOR on/off menu to select the ON. Select the ON and the current angle and the MIRROR setting will be recorded. The ENTER NEW PASSWORD box (small) will be displayed. ENTER NEW PASSWORD box (small) 1-3 Use the ▲/▼/◄/► cursor buttons to enter a password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► cursor (or the **ENTER**) button to display the NEW PASSWORD AGAIN box, enter the same password again.  1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► cursor (or the **ENTER**) button to display the NOTE NEW PASSWORD box for about 30 seconds, please make note of the password during this time.  Pressing the ► cursor (or the **ENTER**) button will return to the TRANSITION DETECTOR on/off menu. • Please do not forget your TRANSITION DETECTOR password. • This function will activate only when the projector is started after turning off the AC power. • This feature may not function properly if the projector is not in a stable position when the ON is selected. **2 Turning off the TRANSITION DETECTOR** 2-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu. 2-2 Select the OFF to display the ENTER PASSWORD box (large). Enter the registered password and the screen will return to the TRANSITION DETECTOR on/off menu. ENTER PASSWORD box (large) If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1. **3 If you have forgotten your password** 3-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu. 3-2 Select the OFF to display the ENTER PASSWORD box (large). The 10 digit Inquiring Code will be displayed inside the box. 3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.

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Item	Description
MY TEXT PASSWORD	The MY TEXT PASSWORD function can prevent the MY TEXT from being overwritten. When the password is set for the MY TEXT; • The MY TEXT DISPLAY menu will be unavailable, which can prohibit changing the DISPLAY setting. • The MY TEXT WRITING menu will be unavailable, which can prevent the MY TEXT from being overwritten. **1 Turning on the MY TEXT PASSWORD** 1-1 Use the ▲/▼ cursor buttons on the SECURITY menu to select the MY TEXT PASSWORD and press the ► cursor (or the **ENTER**) button to display the MY TEXT PASSWORD on/off menu. 1-2 Use the ▲/▼ cursor buttons on the MY TEXT PASSWORD on/off menu to select the ON. The ENTER NEW PASSWORD box (small) will be displayed. ENTER NEW PASSWORD box (small) 1-3 Use the ▲/▼/◄/► cursor buttons to enter the password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► cursor (or the **ENTER**) button to display the NEW PASSWORD AGAIN box, and then enter the same password again. 1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► cursor (or the **ENTER**) button to display the NOTE NEW PASSWORD box for about 30 seconds, then please make note of the password during this time. Pressing the ► cursor (or the **ENTER**) button will return to the MY TEXT PASSWORD on/off menu. **2 Turning off the MY TEXT PASSWORD** 2-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu. 2-2 Select the OFF to display the ENTER PASSWORD box (large). Enter the registered password and the screen will return to the MY TEXT PASSWORD on/off menu. ENTER PASSWORD box (large) If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1. **3 If you have forgotten your password** 3-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu. 3-2 Select the OFF to display the ENTER PASSWORD box (large). The 10 digit inquiring code will be displayed inside the box. 3-3 Contact your dealer with the 10 digit inquiring code. Your password will be sent after your user registration information is confirmed.

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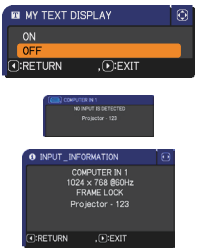
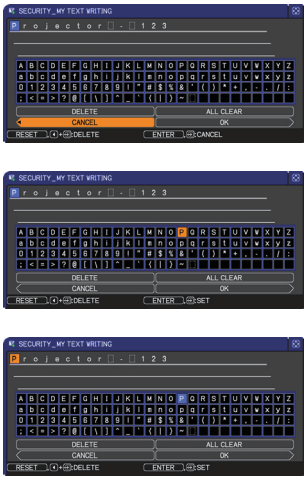
Item	Description
MY TEXT DISPLAY	(1) Use the ▲/▼ cursor buttons on the SECURITY menu to select the MY TEXT DISPLAY and press the ► **cursor (or the ENTER**) button to display the MY TEXT DISPLAY on/off menu. (2) Use the ▲/▼ cursor buttons on the MY TEXT DISPLAY on/off menu to select on or off. ON ⇔ OFF When it is set to the ON, the MY TEXT will be displayed on the START UP screen and the INPUT_INFORMATION when the INFORMATION on the SERVICE menu is chosen. • This function is available only when the MY TEXT PASSWORD function is set to the OFF. 
MY TEXT WRITING	(1) Use the ▲/▼ cursor buttons on the SECURITY menu to select the MY TEXT WRITING and press the ► **cursor (or the ENTER**) button. The MY TEXT WRITING dialog will be displayed. (2) The current the MY TEXT will be displayed on the first 3 lines. If not yet written, the lines will be blank. Use the ▲/▼/◄/► cursor buttons and the **ENTER** (or the **INPUT**) button to select and enter characters. To erase 1 character at one time, press the **RESET** (or press the ◄ cursor and the **INPUT** buttons at the same time) button. Also if you move the cursor to the DELETE or the ALL CLEAR on screen and press the **ENTER** (or the **INPUT**) button, 1 character or all characters will be erased. The MY TEXT can be input up to 24 characters on each line. (3) To change an already inserted character, press the ▲/▼ cursor button to move the cursor to one of the first 3 lines, and use the ◄/► cursor buttons to move the cursor on the character to be changed. After pressing the **ENTER** (or the **INPUT**) button, the character is selected. Then, follow the same procedure as described at the item (2) above. (4) To finish entering text, move the cursor to the OK on screen and press the ► cursor (or the **ENTER**/the **INPUT**) button. To revert to the previous MY TEXT without saving changes, move the cursor to the CANCEL on screen and press the ◄ cursor (or the **ENTER**/the **INPUT**) button. • The MY TEXT WRITING function is available only when the MY TEXT PASSWORD function is set to the OFF. 
SECURITY INDICATOR	(1) Use the ▲/▼ cursor buttons on the SECURITY menu to select the SECURITY INDICATOR and press the ► **cursor (or the ENTER**) button to display the SECURITY INDICATOR on/off menu. (2) Use the ▲/▼ cursor buttons on the SECURITY INDICATOR on/off menu to select on or off. ON ⇔ OFF When it is set to the ON, the **SECURITY** indicator blinks in a standby state if the PIN LOCK or the TRANSITION DETECTOR is ON.

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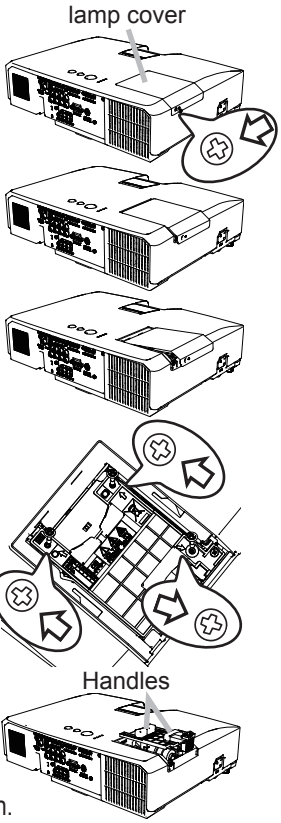
Maintenance

Replacing the 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, make contact with your dealer and tell the lamp type number.

Type number : RLC-053(DT01055)



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, follow the following procedure.

3. Loosen the screw (marked by arrow) of the lamp cover and then slide and lift the lamp cover to the side to remove it.
4. Loosen the 3 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handles. **Never** loosen any other screws.
5. Insert the new lamp, and retighten firmly the 3 screws of the lamp that are loosened in the previous process to lock it in place.
6. While putting the interlocking parts of the lamp cover and the projector together, slide the lamp cover back in place. Then 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 ADVANCED MENU in the menu using the ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER**) button.
   (3) Point at the OPTION in the left column of the menu using the ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER**) button.
   (4) Point at the LAMP TIME using the ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER** / the **RESET**) button. A dialog will appear.
   (5) Press the ► cursor button to select the “OK” on the dialog. It performs resetting the lamp time.

⚠**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.

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Replacing the 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, consult 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 a ceiling. 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, consult 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.

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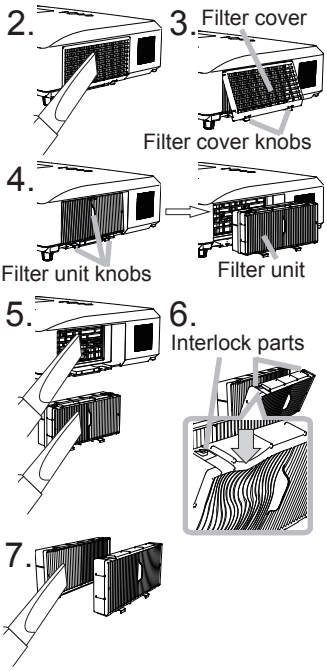
Cleaning and replacing the air filter

The air filter has two kinds of filters inside. 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. If the filters are damaged or heavily soiled, replace them with the new ones. To prepare the new filters, make contact with your dealer and tell the following type number.

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.

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. Pick and pull up the filter cover knobs to take it off.
4. Press up slightly the bottom side knobs to unlock the bottom side of the filter unit. Pull the center knob to take the filter unit off.
5. Use a vacuum cleaner for the filter vent of the projector and the outer side of the filter unit.
6. The filter unit consists of two parts. Press down around the interlocking parts to unlock, then separate the two parts.
7. Use a vacuum cleaner for the inner side of each part of the filter unit to clean them up.
   If the filters are damaged or heavily soiled, replace them with the new ones.
8. Combine the two parts to reassemble the filter unit.
9. Put the filter unit back into the projector.
10. Put the filter cover back into the place.
11. 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 ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER** / the **RESET**) button. A dialog will appear.
    (3) Press the ► cursor button to select the “OK” on the dialog. It performs resetting the filter time.



⚠**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 the “CHECK THE AIR FLOW” or turn off the projector, to prevent the internal heat level rising.

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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 cord 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.

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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 to 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.

(continued on next page)

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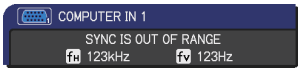
Related messages

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
	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
	**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.
	An improper signal is input. Please confirm the specs for your projector or the signal source specs.
	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. • 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 set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.
	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 “Cleaning and replacing the air filter” section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter time.
	The button operation is not available.

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Regarding the indicator lamps

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

POWER	TEMP	LAMP	SECURITY	Description
Lighting In **Orange**	Turned **off**	Turned **off**	Turned **off**	**The projector is in a standby state.** Please refer to the section “Power on/off”.
			Blinking In **Yellow**	**The projector is in a standby state.** The SECURITY INDICATOR is set to ON, and the PIN LOCK or (and) TRANSITION DETECTOR is (are) on.
Blinking In **Green**	Turned **off**	Turned **off**	Turned **off**	**The projector is warming up.** Please wait.
Lighting In **Green**	Turned **off**	Turned **off**	Turned **off**	**The projector is in an on state.** Ordinary operations may be performed.
Blinking In **Orange**	Turned **off**	Turned **off**	Turned **off**	**The projector is cooling down.** Please wait.
Blinking In **Red**	(discre-tionary)	(discre-tionary)	Turned **off**	**The projector is cooling down. A certain error has been detected.** Please wait until **POWER** indicator finishes blinking, and then perform the proper measure using the item descriptions below.
Blinking In **Red** *or* Lighting In **Red**	Turned **off**	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 “Replacing the lamp”.
Blinking In **Red** *or* Lighting In **Red**	Turned **off**	*Blinking 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.

(Continued on next page)

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Regarding the indicator lamps (continued)

POWER	TEMP	LAMP	SECURITY	Description
Blinking In **Red** *or* Lighting In **Red**	*Blinking In* ***Red***	Turned **off**	Turned **off**	**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.
Blinking In ***Red*** *or* Lighting In **Red**	Lighting In **Red**	Turned **off**	Turned **off**	**There is a possibility that the 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 set FAN SPEED of SERVICE item in OPTION menu to HIGH.
Lighting In **Green**	Simultaneous *blinking in* ***Red***		Turned **off**	**It is time to clean the air filter.** Please immediately turn the power off, and clean or change the air filter referring to the section “Cleaning and replacing the air filter”. After cleaning or changing the air filter, please be sure to reset the filter timer. After the remedy, reset the power to ON.
Lighting In **Green**	Alternative *blinking in* ***Red***		Turned **off**	**There is a possibility that the interior portion has become overcooled.** Please use the unit within the usage temperature parameters (5°C to 35°C). After the treatment, reset the power to ON.

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.

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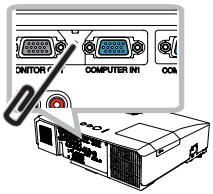
Shutting the projector down

Only when the projector can not be turned off by usual procedure, 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.

Shutdown switch



Resetting all settings

When it is hard to correct some wrong settings, the FACTORY RESET function of SERVICE item in OPTION menu can reset all settings(except LANGUAGE, FILTER TIME, LAMP TIME, FILTER MESSAGE and SECURITY settings 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.	11
	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.	11, 14
	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.	53, 54
Neither sounds nor pictures are outputted.	**The signal cables are not correctly connected.** Correctly connect the connection cables.	9
	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.	15, 16
	The BLANK function for pictures and the MUTE function for sounds are working. AV MUTE may be active. Refer to the item “Sound does not come out” and “No pictures are displayed” on the next page to turn off the MUTE and BLANK functions.	15, 21, 44

(Continued on next page)

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

Phenomenon	Cases not involving a machine defect	Reference page
Sound does not come out.	**The signal cables are not correctly connected.** Correctly connect the audio cables.	9
	The MUTE function is working. Restore the sound pressing **MUTE** or **VOLUME +/-** button on the remote control.	15
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	15
	The AUDIO SOURCE/SPEAKER setting is not correct. Correctly set the AUDIO SOURCE/SPEAKER in AUDIO menu.	36
No pictures are displayed.	**The lens cover is attached.** Remove the lens cover.	3
	The signal cables are not correctly connected. Correctly connect the connection cables.	9
	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function.	26
	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.	10
	The BLANK screen is displayed. Press the **BLANK** button on the remote control.	21
Video screen display freezes.	**The FREEZE function is working.** Press the **FREEZE** button to restore the screen to normal.	21
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.	27, 31
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	31

(Continued on next page)

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

Phenomenon	Cases not involving a machine defect	Reference page
Pictures appear dark.	**The brightness and/or contrast are adjusted to an extremely low level.** Adjust the BRIGHTNESS and/or the CONTRAST settings to a higher level using the menu function.	26
	The ECO MODE function is working. Select the NORMAL for the ECO MODE item in the SETUP menu.	34
	The lamp is approaching the end of its product lifetime. Replace the lamp.	53, 54
Pictures appear blurry.	**Either the focus and/or horizontal phase settings are not properly adjusted.** Adjust the focus using the focus ring, and/or the H PHASE using the menu function.	18, 30
	The lens is dirty or misty. Clean the lens referring to the section “Caring for the lens”.	56
RS-232C does not work.	**The SAVING function is working.** Select NORMAL for STANDBY MODE item in the SETUP menu.	35

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.

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Specifications

Specifications

Item	Specification
Product name	Liquid crystal projector
Liquid Crystal Panel	786,432 pixels (1024 horizontal x 768 vertical)
Lens	Zoom lens, f = 19 ~ 23 mm (approximately)
Lamp	260 W UHB
Speaker	16 W
Power supply	AC 100-120V/4.6A, AC220-240V/2.1A
Power consumption	390 W
Temperature range	5 ~ 35°C (Operating)
Size	400 (W) x 98 (H) x 318 (D) mm * Not including protruding parts. Please refer to the following figure.
Weight (mass)	approx. 4.2kg
Ports	**Computer input port** COMPUTER IN1 .....D-sub 15 pin mini x1 COMPUTER IN2 .....D-sub 15 pin mini x1 **Computer output port** MONITOR OUT .....D-sub 15 pin mini x1 **Video input port** Y, Cb/Pb, Cr/Pr (Component video) ..... RCA x3 S-VIDEO.....mini DIN 4 pin x1 VIDEO ..... RCA x1 **Audio input/output port** AUDIO IN1..... Stereo mini x1 AUDIO IN2..... Stereo mini x1 AUDIO IN3 (R, L)..... RCA x2 AUDIO OUT (R, L)..... RCA x2 **Others** CONTROL..... D-sub 9 pin x1 REMOTE CONTROL..... Stereo mini x1
Optional parts	**Lamp**: RLC-053(DT01055) **Filter set / Laser and wired remote control**: For more information, please consult your dealer.

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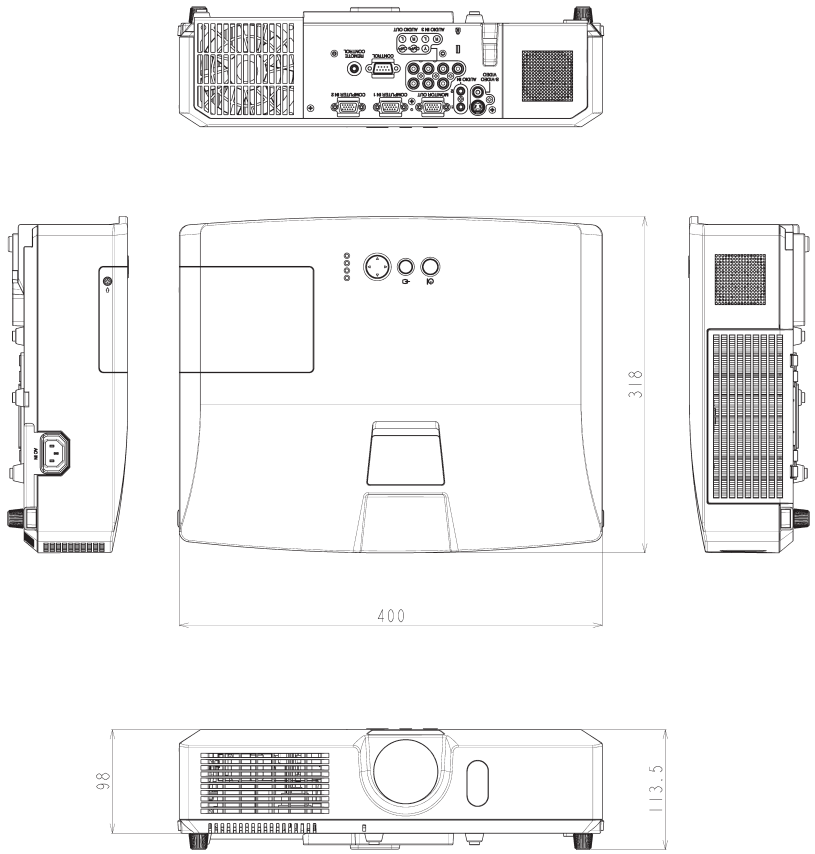
Specifications (continued)



[unit: mm]

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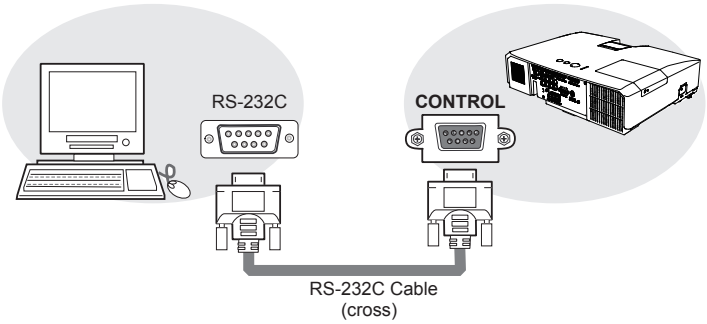
RS-232C Communication

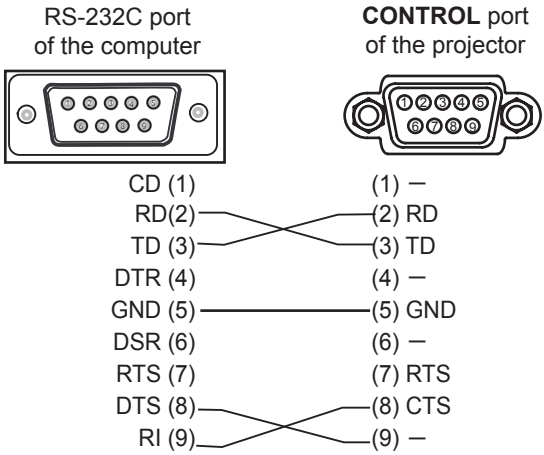
When the projector connects to the computer by RS-232C communication, the projector can be controlled with RS-232C commands from the computer.

For details of RS-232C commands, refer to RS-232C Communication command table.

Connection

1. Turn off the projector and the computer.
2. Connect the projector's **CONTROL** port and the computer's RS-232C port with a RS-232C cable (cross). Use the cable that fulfills the specification shown in figure
3. Turn the computer on, and after the computer has started up turn the projector on.





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Communicaion settings

1. Protocol

19200bps,8N1

2. Command format ("h" shows hexadecimal)

Byte Number	0	1	2	3	4	5	6	7	8	9	10	11	12
Command	Header							Data					
	Header code		Packet	Data size		CRC flag		Action		Type		Setting code	
Action	L	H		L	H	L	H	L	H	L	H	L	H
<SET>Change setting to desired value [(cL)(cH)] by [(eL)(eH)].	BEh	EFh	03h	06h	00h	(aL)	(aH)	01h	00h	(bL)	(bH)	(cL)	(cH)
<GET>Read projector internal setup value [(bL)(bH)] .						(aL)	(aH)	02h	00h	(bL)	(bH)	00h	00h
<INCREMENT> Increment setup value [(bL)(bH)] by 1.						(aL)	(aH)	04h	00h	(bL)	(bH)	00h	00h
<DECREMENT> Decrement setup value [(bL)(bH)] by 1.						(aL)	(aH)	05h	00h	(bL)	(bH)	00h	00h
<EXECUTE> Run a command [(bL)(bH)].						(aL)	(aH)	06h	00h	(bL)	(bH)	00h	00h

[Header code] [Packet] [Data size]

Set [BEh, EFh, 03h, 06h, 00h] to byte number 0 ~ 4.

[CRC flag]

For byte number 5, 6, refer to RS-232C Communication command table.

[Action]

Set functional code to byte number 7, 8.
<SET> = [01h, 00h], <GET> = [02h, 00h], <INCREMENT> = [04h, 00h]
<DECREMENT> = [05h, 00h], <EXECUTE> = [06h, 00h]
Refer to the Communication command table.

[Type] [Setting code]

For byte number 9 ~ 12, refer to RS-232C Communication command table.

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3. Response code / Error code ("h" shows hexadecimal)

(1) ACK reply : 06h

When the projector receives the Set, Increment, Decrement or Execute command correctly, the projector changes the setting data for the specified item by [Type], and it returns the code.

(2) NAK reply : 15h

When the projector cannot understand the received command, the projector returns the error code.

In such a case, check the sending code and send the same command again.

(3) Error reply : 1Ch + 0000h

When the projector cannot execute the received command for any reasons, the projector returns the error code.

In such a case, check the sending code and the setting status of the projector.

(4) Data reply : 1Dh + xxxxh

When the projector receives the GET command correctly, the projector returns the responce code and 2 bytes of data.

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.

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RS-232C Communication command table

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
Power	Set	OFF	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		ON	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get		BE EF	03	06 00	19 D3	02 00	00 60	00 00
			[Example return] 00 00 [Off] 01 00 [On] 02 00 [Cool down]						
Input Source	Set	COMPUTER IN1	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		COMPUTER IN2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
		COMPONENT	BE EF	03	06 00	AE D1	01 00	00 20	05 00
		S-VIDEO	BE EF	03	06 00	9E D3	01 00	00 20	02 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
	Get		BE EF	03	06 00	CD D2	02 00	00 20	00 00
Error Status	Get		BE EF	03	06 00	D9 D8	02 00	20 60	00 00
			[Example return] 00 00 [Normal] 01 00 [Cover error] 02 00 [Fan error] 03 00 [Lamp error] 04 00 [Temp error] 05 00 [Air flow error] 07 00 [Cold error] 08 00 [Filter error]						
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
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
		DAYLIGHT	BE EF	03	06 00	23 E2	01 00	BA 30	30 00
	Get		BE EF	03	06 00	10 F6	02 00	BA 30	00 00
			[Example return] 00 00 [NORMAL] 01 00 [CINEMA] 04 00 [DYNAMIC] 10 00 [CUSTOM] 20 00 [BOARD(BLACK)] 21 00 [BOARD(GREEN)] 22 00 [WHITEBOARD] 30 00 [DAYLIGHT]						

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RS-232C Communication command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
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
		6 DEFAULT	BE EF	03	06 00	57 EA	01 00	A1 30	25 00
		6 CUSTOM	BE EF	03	06 00	57 FE	01 00	A1 30	15 00
	Get		BE EF	03	06 00	F4 F0	02 00	A1 30	00 00
User Gamma Pattern	Set	Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 steps 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 1 Reset	Execute		BE EF	03	06 00	58 C2	06 00	50 70	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 2 Reset	Execute		BE EF	03	06 00	A4 C3	06 00	51 70	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 3 Reset	Execute		BE EF	03	06 00	E0 C3	06 00	52 70	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 4 Reset	Execute		BE EF	03	06 00	1C C2	06 00	53 70	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 5 Reset	Execute		BE EF	03	06 00	68 C3	06 00	54 70	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 6 Reset	Execute		BE EF	03	06 00	94 C2	06 00	55 70	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 7 Reset	Execute		BE EF	03	06 00	D0 C2	06 00	56 70	00 00

(continued on next page)

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Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
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
User Gamma Point 8 Reset	Execute		BE EF	03	06 00	2C C3	06 00	57 70	00 00
COLOR TEMP	Set	1 HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		1 CUSTOM	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		2 MID	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		2 CUSTOM	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		3 LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		3 CUSTOM	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		4 Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		4 CUSTOM	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
		5 Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		5 CUSTOM	BE EF	03	06 00	6B FE	01 00	B0 30	19 00
		6 Hi-BRIGHT-3	BE EF	03	06 00	5B F3	01 00	B0 30	0A 00
		6 CUSTOM	BE EF	03	06 00	9B FE	01 00	B0 30	1A 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 R Reset	Execute		BE EF	03	06 00	10 C6	06 00	46 70	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
COLOR TEMP GAIN G Reset	Execute		BE EF	03	06 00	EC C7	06 00	47 70	00 00
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 GAIN B Reset	Execute		BE EF	03	06 00	F8 C4	06 00	48 70	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 R Reset	Execute		BE EF	03	06 00	40 C5	06 00	4A 70	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 G Reset	Execute		BE EF	03	06 00	BC C4	06 00	4B 70	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 TEMP OFFSET B Reset	Execute		BE EF	03	06 00	C8 C5	06 00	4C 70	00 00

(continued on next page)

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RS-232C Communication command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
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
ACTIVE IRIS	Set	OFF	BE EF	03	06 00	0B 22	01 00	04 33	00 00
		THEATER	BE EF	03	06 00	CB 2F	01 00	04 33	10 00
		PRESENTATION	BE EF	03	06 00	5B 2E	01 00	04 33	11 00
	Get		BE EF	03	06 00	38 22	02 00	04 33	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
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
		16:10	BE EF	03	06 00	3E D6	01 00	08 20	0A 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

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Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
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
PROGRESSIVE	Set	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
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
COMPONENT	Set	COMPONENT	BE EF	03	06 00	4A D7	01 00	17 20	00 00
		SCART RGB	BE EF	03	06 00	DA D6	01 00	17 20	01 00
	Get		BE EF	03	06 00	79 D7	02 00	17 20	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
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
COMPUTER IN1	Set	AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
	Get		BE EF	03	06 00	0D D6	02 00	10 20	00 00
COMPUTER IN2	Set	AUTO	BE EF	03	06 00	32 D7	01 00	11 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	A2 D6	01 00	11 20	02 00
	Get		BE EF	03	06 00	F1 D7	02 00	11 20	00 00

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RS-232C Communication command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
FRAME LOCK – COMPUTER IN1	Set	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
		ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
	Get		BE EF	03	06 00	08 C2	02 00	50 30	00 00
FRAME LOCK – COMPUTER IN2	Set	OFF	BE EF	03	06 00	0B C3	01 00	54 30	00 00
		ON	BE EF	03	06 00	9B C2	01 00	54 30	01 00
	Get		BE EF	03	06 00	38 C3	02 00	54 30	00 00
AUTO KEYSTONE V EXECUTE	Execute		BE EF	03	06 00	E5 D1	06 00	0D 20	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
ECO MODE	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		ECO	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
STANDBY MODE	Set	NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
		SAVING	BE EF	03	06 00	46 D3	01 00	01 60	01 00
	Get		BE EF	03	06 00	E5 D2	02 00	01 60	00 00
MONITOR OUT - COMPUTER IN1	Set	COMPUTER IN1	BE EF	03	06 00	3E F4	01 00	B0 20	00 00
		OFF	BE EF	03	06 00	CE B5	01 00	B0 20	FF 00
	Get		BE EF	03	06 00	0D F4	02 00	B0 20	00 00
MONITOR OUT - COMPUTER IN2	Set	COMPUTER IN2	BE EF	03	06 00	CE F7	01 00	B4 20	04 00
		OFF	BE EF	03	06 00	FE B4	01 00	B4 20	FF 00
	Get		BE EF	03	06 00	3D F5	02 00	B4 20	00 00
MONITOR OUT - COMPONENT	Set	COMPUTER IN1	BE EF	03	06 00	F2 F4	01 00	B5 20	00 00
		COMPUTER IN2	BE EF	03	06 00	32 F6	01 00	B5 20	04 00
		OFF	BE EF	03	06 00	02 B5	01 00	B5 20	FF 00
	Get		BE EF	03	06 00	C1 F4	02 00	B5 20	00 00
MONITOR OUT - S-VIDEO	Set	COMPUTER IN1	BE EF	03	06 00	86 F5	01 00	B2 20	00 00
		COMPUTER IN2	BE EF	03	06 00	46 F7	01 00	B2 20	04 00
		OFF	BE EF	03	06 00	76 B4	01 00	B2 20	FF 00
	Get		BE EF	03	06 00	B5 F5	02 00	B2 20	00 00
MONITOR OUT - VIDEO	Set	COMPUTER IN1	BE EF	03	06 00	C2 F5	01 00	B1 20	00 00
		COMPUTER IN2	BE EF	03	06 00	02 F7	01 00	B1 20	04 00
		OFF	BE EF	03	06 00	32 B4	01 00	B1 20	FF 00
	Get		BE EF	03	06 00	F1 F5	02 00	B1 20	00 00
MONITOR OUT - STANDBY	Set	COMPUTER IN1	BE EF	03	06 00	2A F7	01 00	BF 20	00 00
		COMPUTER IN2	BE EF	03	06 00	EA F5	01 00	BF 20	04 00
		OFF	BE EF	03	06 00	DA B6	01 00	BF 20	FF 00
	Get		BE EF	03	06 00	19 F7	02 00	BF 20	00 00
VOLUME - COMPUTER IN1	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

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Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
VOLUME - COMPUTER IN2	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 - COMPONENT	Get		BE EF	03	06 00	01 CC	02 00	65 20	00 00
	Increment		BE EF	03	06 00	67 CC	04 00	65 20	00 00
	Decrement		BE EF	03	06 00	B6 CD	05 00	65 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
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 - AUDIO OUT STANDBY	Get		BE EF	03	06 00	D9 CF	02 00	6F 20	00 00
	Increment		BE EF	03	06 00	BF CF	04 00	6F 20	00 00
	Decrement		BE EF	03	06 00	6E CE	05 00	6F 20	00 00
MUTE	Set	OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		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
SPEAKER	Set	ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
		OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
	Get		BE EF	03	06 00	5D D5	02 00	1C 20	00 00
AUDIO SOURCE - COMPUTER IN1	Set	AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
		AUDIO IN3	BE EF	03	06 00	0E DD	01 00	30 20	03 00
		OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
	Get		BE EF	03	06 00	CD DD	02 00	30 20	00 00
AUDIO SOURCE - COMPUTER IN2	Set	AUDIO IN1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		AUDIO IN2	BE EF	03	06 00	AE DD	01 00	34 20	02 00
		AUDIO IN3	BE EF	03	06 00	3E DC	01 00	34 20	03 00
		OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00
	Get		BE EF	03	06 00	FD DC	02 00	34 20	00 00
AUDIO SOURCE - COMPONENT	Set	AUDIO IN1	BE EF	03	06 00	A2 DC	01 00	35 20	01 00
		AUDIO IN2	BE EF	03	06 00	52 DC	01 00	35 20	02 00
		AUDIO IN3	BE EF	03	06 00	C2 DD	01 00	35 20	03 00
		OFF	BE EF	03	06 00	32 DD	01 00	35 20	00 00
	Get		BE EF	03	06 00	01 DD	02 00	35 20	00 00
AUDIO SOURCE - S-VIDEO	Set	AUDIO IN1	BE EF	03	06 00	D6 DD	01 00	32 20	01 00
		AUDIO IN2	BE EF	03	06 00	26 DD	01 00	32 20	02 00
		AUDIO IN3	BE EF	03	06 00	B6 DC	01 00	32 20	03 00
		OFF	BE EF	03	06 00	46 DC	01 00	32 20	00 00
	Get		BE EF	03	06 00	75 DC	02 00	32 20	00 00
AUDIO SOURCE - VIDEO	Set	AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
		AUDIO IN3	BE EF	03	06 00	F2 DC	01 00	31 20	03 00
		OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
	Get		BE EF	03	06 00	31 DC	02 00	31 20	00 00

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Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
AUDIO OUT STANDBY	Set	AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
		AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
		AUDIO IN3	BE EF	03	06 00	1A DE	01 00	3F 20	03 00
		OFF	BE EF	03	06 00	EA DE	01 00	3F 20	00 00
	Get		BE EF	03	06 00	D9 DE	02 00	3F 20	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
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

* Not all of the languages in the table are supported.

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Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
BLANK	Set	MyScreen	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	OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00
		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	MyScreen	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
		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
MyScreen Lock	Set	OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00
		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	OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		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
TEMPLATE	Set	TEST PATTERN	BE EF	03	06 00	43 D9	01 00	22 30	00 00
		DOT-LINE1	BE EF	03	06 00	D3 D8	01 00	22 30	01 00
		DOT-LINE2	BE EF	03	06 00	23 D8	01 00	22 30	02 00
		DOT-LINE3	BE EF	03	06 00	B3 D9	01 00	22 30	03 00
		DOT-LINE4	BE EF	03	06 00	83 DB	01 00	22 30	04 00
	Get		BE EF	03	06 00	70 D9	02 00	22 30	00 00
TEMPLATE On/Off	Set	OFF	BE EF	03	06 00	BF D8	01 00	23 30	00 00
		ON	BE EF	03	06 00	2F D9	01 00	23 30	01 00
	Get		BE EF	03	06 00	8C D8	02 00	23 30	00 00
C. C. - DISPLAY	Set	OFF	BE EF	03	06 00	FA 62	01 00	00 37	00 00
		ON	BE EF	03	06 00	6A 63	01 00	00 37	01 00
		AUTO	BE EF	03	06 00	9A 63	01 00	00 37	02 00
	Get		BE EF	03	06 00	C9 62	02 00	00 37	00 00
C. C. - MODE	Set	CAPTIONS	BE EF	03	06 00	06 63	01 00	01 37	00 00
		TEXT	BE EF	03	06 00	96 62	01 00	01 37	01 00
	Get		BE EF	03	06 00	35 63	02 00	01 37	00 00
C. C. - CHANNEL	Set	1	BE EF	03	06 00	D2 62	01 00	02 37	01 00
		2	BE EF	03	06 00	22 62	01 00	02 37	02 00
		3	BE EF	03	06 00	B2 63	01 00	02 37	03 00
		4	BE EF	03	06 00	82 61	01 00	02 37	04 00
	Get		BE EF	03	06 00	71 63	02 00	02 37	00 00
AUTO SEARCH	Set	OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		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 KEYSTONE V	Set	OFF	BE EF	03	06 00	EA D1	01 00	0F 20	00 00
		ON	BE EF	03	06 00	7A D0	01 00	0F 20	01 00
	Get		BE EF	03	06 00	D9 D1	02 00	0F 20	00 00
DIRECT ON	Set	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		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

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RS-232C Communication command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting Code
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
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
FILTER TIME Reset	Execute		BE EF	03	06 00	98 C6	06 00	40 70	00 00
MY BUTTON-1	Set	COMPUTER IN1	BE EF	03	06 00	3A 33	01 00	00 36	00 00
		COMPUTER IN2	BE EF	03	06 00	FA 31	01 00	00 36	04 00
		COMPONENT	BE EF	03	06 00	6A 30	01 00	00 36	05 00
		S-VIDEO	BE EF	03	06 00	5A 32	01 00	00 36	02 00
		VIDEO	BE EF	03	06 00	AA 32	01 00	00 36	01 00
		INFORMATION	BE EF	03	06 00	FA 3E	01 00	00 36	10 00
		AUTO KEYSTONE V	BE EF	03	06 00	6A 3F	01 00	00 36	11 00
		MY MEMORY	BE EF	03	06 00	9A 3F	01 00	00 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	AA 3D	01 00	00 36	15 00
		PICTURE MODE	BE EF	03	06 00	0A 3E	01 00	00 36	13 00
		FILTER RESET	BE EF	03	06 00	3A 3C	01 00	00 36	14 00
		AV MUTE	BE EF	03	06 00	AA 38	01 00	00 36	19 00
		TEMPLATE	BE EF	03	06 00	CA 39	01 00	00 36	1B 00
	Get		BE EF	03	06 00	09 33	02 00	00 36	00 00
MY BUTTON-2	Set	COMPUTER IN1	BE EF	03	06 00	C6 32	01 00	01 36	00 00
		COMPUTER IN2	BE EF	03	06 00	06 30	01 00	01 36	04 00
		COMPONENT	BE EF	03	06 00	96 31	01 00	01 36	05 00
		S-VIDEO	BE EF	03	06 00	A6 33	01 00	01 36	02 00
		VIDEO	BE EF	03	06 00	56 33	01 00	01 36	01 00
		INFORMATION	BE EF	03	06 00	06 3F	01 00	01 36	10 00
		AUTO KEYSTONE V	BE EF	03	06 00	96 3E	01 00	01 36	11 00
		MY MEMORY	BE EF	03	06 00	66 3E	01 00	01 36	12 00
		ACTIVE IRIS	BE EF	03	06 00	56 3C	01 00	01 36	15 00
		PICTURE MODE	BE EF	03	06 00	F6 3F	01 00	01 36	13 00
		FILTER RESET	BE EF	03	06 00	C6 3D	01 00	01 36	14 00
		AV MUTE	BE EF	03	06 00	56 39	01 00	01 36	19 00
		TEMPLATE	BE EF	03	06 00	36 38	01 00	01 36	1B 00
	Get		BE EF	03	06 00	F5 32	02 00	01 36	00 00
MY SOURCE	Set	COMPUTER IN1	BE EF	03	06 00	FA 38	01 00	20 36	00 00
		COMPUTER IN2	BE EF	03	06 00	3A 3A	01 00	20 36	04 00
		COMPONENT	BE EF	03	06 00	AA 3B	01 00	20 36	05 00
		S-VIDEO	BE EF	03	06 00	9A 39	01 00	20 36	02 00
		VIDEO	BE EF	03	06 00	6A 39	01 00	20 36	01 00
	Get		BE EF	03	06 00	C9 38	02 00	20 36	00 00
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
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

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Customer Support

For technical support or product service, see the table below or contact your reseller.

Note : You will need the product serial number.

Country/Region	Web Site	T=Telephone F=Fax	E-mail
Australia/New Zealand	www.viewsonic.com.au	AUS=1800 880 818 NZ=0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-1202	service.ca@viewsonic.com
Europe/Middle East/Baltic countries/North Africa	www.viewsoniceurope.com	Contact your reseller	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 11 9999	service@in.viewsonic.com
Korea	www.kr.viewsonic.com	T= 080 265 9080	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	T= 0800 666 0194	soporte@viewsonic.com
Latin America (Brazil)	www.viewsonic.com/la/	T= 0800 891 6984	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T= 800 440 303	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01 800 915 6588	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	T= 001 800 514 6518	soporte@viewsonic.com
Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Merida, Yucatan. Tel: 01.999.925.19.16 Other places please refer to http://www.viewsonic.com/la/soporte/index.htm#Mexico			
Latin America (Peru)	www.viewsonic.com/la/	T= 0800 53458	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 700 303	service@hk.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-1202	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/Thailand	www.ap.viewsonic.com	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/Support/Calldesk.htm	
United Kingdom	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/Support/Calldesk.htm	
United States	www.viewsonic.com	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-1202	service.us@viewsonic.com

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Limited Warranty
VIEWSONIC® PROJECTOR

What the warranty covers:
ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

Limited Three (3) year General Warranty
Subject to the more limited one (1) year warranty set out below, North and South America: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and one (1) year for the original lamp from the date of the first consumer purchase; Europe except Poland: Three (3) years warranty for all parts excluding the lamp, three (3) years for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Poland: Two (2) years warranty for all parts excluding the lamp, two (2) years for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase.

Limited One (1) year Heavy Usage Warranty:
Under heavy usage settings, where a projector's use includes more than four (4) hours average daily usage, North and South America: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase; Europe: One (1) year warranty for all parts excluding the lamp, one (1) year for labor, and ninety (90) days for the original lamp from the date of the first consumer purchase.

Other regions or countries: Please check with your local dealer or local ViewSonic office for the warranty information.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer' s installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

Who the warranty protects:
This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:
1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration, failure, or malfunction resulting from:
    a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, improper maintenance, unauthorized product modification, or failure to follow instructions supplied with the product.
    b. Operation outside of product specifications.
    c. Operation of the product for other than the normal intended use or not under normal conditions.
    d. Repair or attempted repair by anyone not authorized by ViewSonic.
    e. Any damage of the product due to shipment.
    f. Removal or installation of the product.
    g. Causes external to the product, such as electric power fluctuations or failure.
    h. Use of supplies or parts not meeting ViewSonic's specifications.
    i. Normal wear and tear.
    j. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

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How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (please refer to "Customer Support" page). You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.
The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.
For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com under Support/Warranty Information.

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Mexico Limited Warranty

VIEWSONIC® PROJECTOR

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

How long the warranty is effective:

3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only. All accessory lamps purchased separately are warranted for 90 days.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
   b. Any damage of the product due to shipment.
   c. Causes external to the product, such as electrical power fluctuations or failure.
   d. Use of supplies or parts not meeting ViewSonic's specifications.
   e. Normal wear and tear.
   f. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to the attached Customer Support page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____

Document Number: _____ Serial Number: _____

Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)

If so, what date does warranty expire? _____

1. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

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Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	***Villahermosa:*** Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	***Veracruz, Ver.:*** CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
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