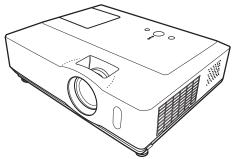
3M Digital Projector X66 Operator's Guide



Thank you for purchasing this projector.

▲ **WARNING** ► Before using this product, please read all manuals for this product. Be sure to read "Product Safety Guide" first. After reading them, store them in a safe place for future reference.

About this manual

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

- **WARNING** This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
- ▲**CAUTION** This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.
 - Please refer to the pages written following this symbol.
 - **NOTE** The information in this manual is subject to change without notice.
- The manufacturer assumes no responsibility for any errors that may appear in this manual.
- The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.

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- Windows is a registered trademark of Microsoft Corporation.

All other trademarks are the properties of their respective owners.

Content

Content

About this manual	. 1	EASY ME
Content	. 2	ASPECT, AUT
Projector features	. 3	Keystone C Contrast, C
Preparations		WHISPER, MI
Contents of package	3	Language, C
Fastening the lens cover	3	PICTURE
Part names	. 4	BRIGHTNESS, C
Projector	4	COLOR, TINT, S
Control panel	5	IMAGE me
Rear panel	5 6	ASPECT, OVE
		H phase, H s
Setting up		INPUT me
Arrangement	10	Progressivi
Connecting power supply	.12	COMPONENT,
Using the security bar and slot	.12	FRAME LOCK, RESOLUTION
Remote control		SETUP me
Putting batteries	.13	AUTO KEYSTO
About the remote control signal	.13	WHISPER, MI
Changing the frequency of remote	4.4	Speaker, AL
control signal	.14	SCREEN n
simple PC mouse & keyboard	14	Language,
Power on/off		Start up, N
Turning on the power.		Message, S
Turning off the power.	.15	OPTION n
Operating		AUTO SEARC
Adjusting the volume	.16	AUTO ON, AU FILTER TIME,
Temporarily muting the sound	.16	SECURITY
Selecting an input signal		Maintena
Searching an input signal		Lamp
Selecting an aspect ratio	.17	Air filter
Adjusting the zoom and focus	.18	Other care
Using the automatic adjustment feature .	.19	Troublesh
Adjusting the position	.19	Related me
Correcting the keystone distortions.		Regarding
Using the magnify feature		Shutting th
Freezing the screen	.∠⊺ 21	Resetting a Phenomena
Using the menu function		to be mist

EASY MENU. 24 ASPECT, AUTO KEYSTONE SEXECUTE, KEYSTONE , PICTURE MODE, BRIGHTNESS, CONTRAST, COLOR, TINT, SHARPNESS, WHISPER, MIRROR, RESET, FILTER TIME, LANGUAGE, Go to Advanced Menu
PICTURE menu
IMAGE menu 29 Aspect, Over scan, V position, H position, H phase, H size, Auto adjust execute
INPUT menu
SETUP menu
SCREEN menu
OPTION menu
Maintenance 51 Lamp .51 Air filter .53 Other care .54
Troubleshooting55Related messages55Regarding the indicator lamps56Shutting the projector down57Resetting all settings57Phenomena that may be easy
to be mistaken for machine defects58 Specifications 60

Technical (English only)

(Please see the end of this book, although only in English.)

Projector features

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

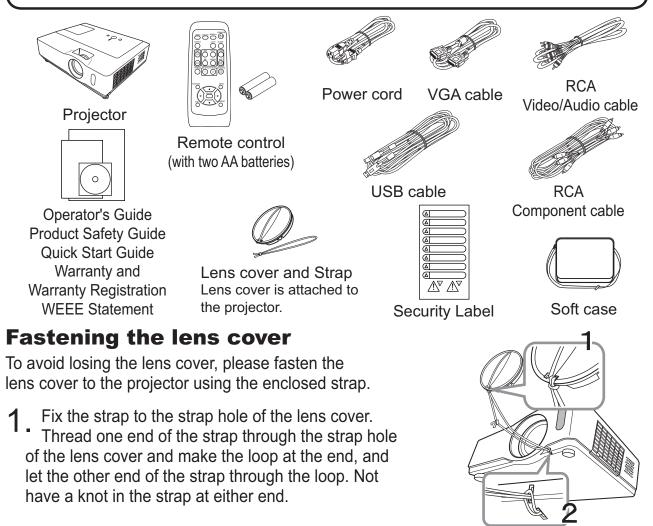
This projector boasts a variety of I/O por and low noise. These features provide you with the broad use of this projector.

Preparations

Contents of package

Your projector should come with the items shown below. Contact immediately your dealer if anything is missing.

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

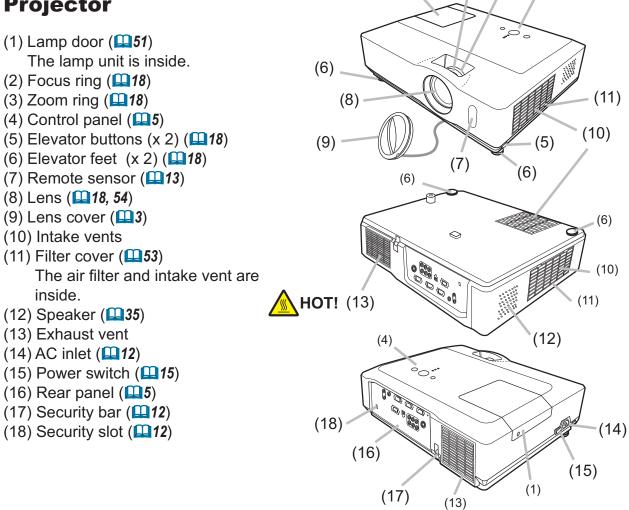


2 Fix the strap to the strap hole of the projector.

Thread the other end of the strap through the strap hole of the projector and make the loop there. Let the lens cover with the one strap though the loop. Part names

Part names

Projector



(2) (3)

(4)

HOT! (1)

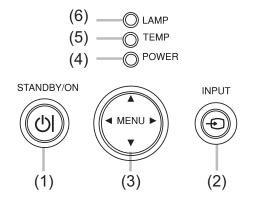
▲WARNING ►HOT! : Do not touch around the lamp door and the exhaust vents during use or just after use, since it is too hot.

▲ **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 handle the elevator buttons without holding the projector, since the projector may drop down.

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

Control panel

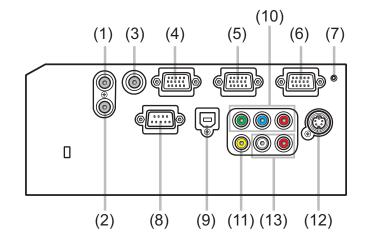
- (1) STANDBY/ON button (**L15**)
- (2) INPUT button (**116, 22**)
- (3) MENU button (**Q22**)
 - It consists of four cursor buttons.
- (4) POWER indicator (**115, 56**)
- (5) TEMP indicator (**156**)
- (6) LAMP indicator (**L156**)



Rear panel

- (1) AUDIO IN1 port (**[]]10**)
- (2) AUDIO IN2 port (**111**)
- (3) AUDIO OUT port (**110**)
- (4) COMPUTER IN1 port (**110**)
- (5) COMPUTER IN2 port (**110**)
- (6) MONITOR OUT port (**110**)
- (7) Shutdown switch (**157**)

- (8) CONTROL port (**11**0)
- (9) USB port (**111**)
- (10) COMPONENT
 - (Y, Cb/Pb, Cr/Pr) port (**[]]10**)
- (11) VIDEO port (**11**)
- (12) S-VIDEO port (**11**)
- (13) AUDIO IN3 (L,R) ports (110)



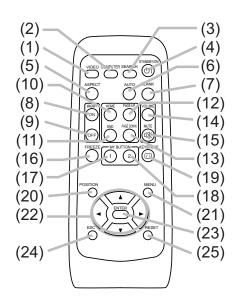
 \triangle **CAUTION** \triangleright Do not use the security bar and slot to prevent the projector from falling down, since it is not designed for it.

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

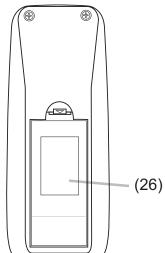
Part names

Remote control

- (1) VIDEO button (**17**)
 (2) COMPUTER button (**16**)
- (3) SEARCH button (117)
- (4) STANDBY/ON button (**L15**)
- (5) ASPECT button (
- (6) AUTO button (**119**)
- (7) BLANK button (**121**)
- (8) MAGNIFY ON button (**20**)
- (9) MAGNIFY OFF button (**114, 20**)
- (10) HOME button (**11**)
- (11) END button (**[]**14)
- (12) PAGE UP button (**11**)
- (13) PAGE DOWN button (
- (14) VOLUME button (**14**)
- (15) MUTE button (**1***14, 16*)
- (16) FREEZE button (**12**)
- (17) MY BUTTON 1 button (**42**)
- (18) MY BUTTON 2 button (**42**)
- (19) KEYSTONE button (220)
- (20) POSITION button (**119, 22**)
- (21) MENU button (**Q2**)
- (22) ▲/▼/◀/► cursor buttons (**□***14, 22, 23*)
- (23) ENTER button (**11**, **22**, **23**)
- (24) ESC button (114, 22)
- (25) RESET button (**114, 22, 23**)
- (26) Battery cover (



Back of the remote control



Setting up

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

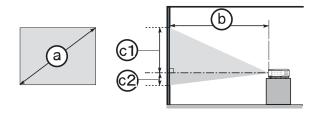
Arrangement

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

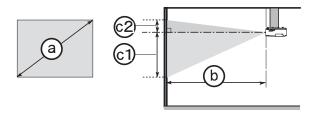
The values shown in the table are calculated for a full size screen: 1024×768.

- (a) Screen size (diagonal)
- (b) Projection distance (±10%)
- (c1), (c2) Screen height (±10%)

On a horizontal surface



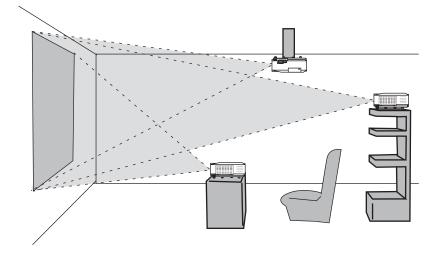
Suspended from the ceiling



					4 : 3 s	screer	า					1	6:9	scree	n		
Scree	a) n size onal)	Pr	() ojectior	b) n distar	ice	Scr	:1) een	Scr	2) een	Pro	(ojectior	b) n distar	nce	Scr	:1) reen	Scr	2) een
(ulug	ornary	m	in.	ma	ax.	hei	ght	hei	ght	m	in.	ma	ax.	hei	ght	hei	ght
inch	m	m	inch	m	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch	cm	inch
30	0.8	0.9	34	1.1	41	41	16	5	2	1.0	38	1.1	45	39	15	-1	0
40	1.0	1.2	46	1.4	56	55	22	6	2	1.3	50	1.5	61	51	20	-2	-1
50	1.3	1.5	58	1.8	70	69	27	8	3	1.6	63	1.9	76	64	25	-2	-1
60	1.5	1.8	70	2.1	84	82	32	9	4	1.9	76	2.3	91	77	30	-2	-1
70	1.8	2.1	81	2.5	98	96	38	11	4	2.3	89	2.7	107	90	35	-3	-1
80	2.0	2.4	93	2.8	112	110	43	12	5	2.6	102	3.1	122	103	41	-3	-1
90	2.3	2.7	105	3.2	126	123	49	14	5	2.9	115	3.5	138	116	46	-4	-1
100	2.5	3.0	117	3.6	140	137	54	15	6	3.2	127	3.9	153	129	51	-4	-2
120	3.0	3.6	140	4.3	169	165	65	18	7	3.9	153	4.7	184	154	61	-5	-2
150	3.8	4.5	176	5.4	211	206	81	23	9	4.9	192	5.8	230	193	76	-6	-2
200	5.1	6.0	235	7.2	282	274	108	30	12	6.5	256	7.8	307	257	101	-8	-3
250	6.4	7.5	294	9.0	353	343	135	38	15	8.1	320	9.8	384	322	127	-10	-4
300	7.6	9.0	352	10.8	423	411	162	46	18	9.8	384	11.7	461	386	152	-12	-5

Setting up

Arrangement (continued)



• Keep a space of 30 cm or more between the sides of the projector and other objects such as walls.

• Consult with your dealer before a special installation such as suspending from a ceiling.

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

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

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

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

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

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

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

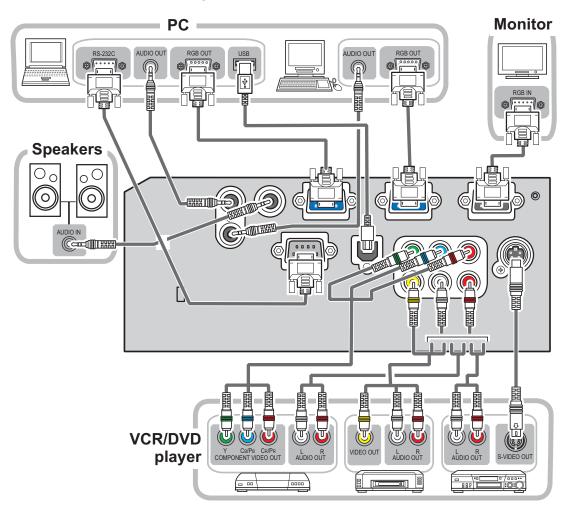
Do not place the projector near humidifiers, smoking spaces or a kitchen.
 Position the projector to prevent light from directly hitting the projector's remote sensor.

Setting up

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

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

Connecting your devices (continued)

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

- Some signal may need an adapter to input this projector.
- Some PCs have multiple screen display modes that may include some signals which are not supported by this projector.
- Although the projector can display signals with resolution up to UXGA (1600X1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and the projector panel are identical.

• While connecting, make sure that the shape of the cable's connector fits the port to connect with. And be sure to tighten the screws on connectors with screws.

• When connecting a laptop PC to the projector, be sure to activate the PC's external RGB output. (Set the laptop PC to CRT display or to simultaneous LCD and CRT display.) For details on how this is done, please refer to the instruction manual of the corresponding laptop PC.

• When the picture resolution is changed on a pc depending on an input, automatic adjustment function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or LCD monitors to change the resolution.

• In some cases, this projector may not display a proper picture or display any picture on screen. For example, automatic adjustment may not function correctly with some input signals. An input signal of composite sync or sync on G may confuse this projector, so the projector may not display a proper picture.

About Plug-and-Play capability

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

• Take advantage of this feature by connecting an RGB cable to the COMPUTER IN1 port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.

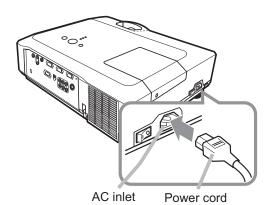
• Please use the standard drivers in your pc as this projector is a Plug-and-Play monitor.

Setting up

Connecting power supply

At first, make sure that the power switch of the projector is set to OFF position (marked "O").

- **1** Put the connector of the power cord into the AC inlet of the projector.
- 2. Firmly plug the power cord's plug into the outlet.



 \triangle **WARNING** \triangleright Please use extra caution when connecting the power cord, as incorrect or faulty connections may result in fire and/or electrical shock.

• Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.

• Only plug the power cord into an outlet rated for use with the power cord's specified voltage range. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.

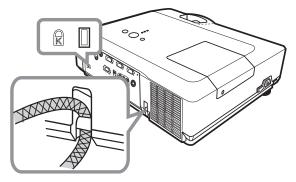
• Never modify the power cord.

Using the security 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.



 \triangle **CAUTION** \triangleright Do not use the security bar and slot to prevent the projector from falling down, since it is not designed for it.

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

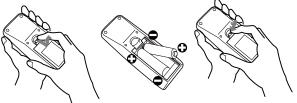
NOTE • The security bar and slot is not comprehensive theft prevention measures. It is intended to be used as supplemental theft prevention measure.

Remote control

Putting batteries

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

- Holding the hook part of the battery cover, remove it.
- Align and insert the two AA batteries
- 2. Align and insert the two, the according to their plus and minus terminals as indicated in the remote control.



3 Replace the battery cover in the direction of the arrow and snap it back into place.

▲**WARNING** ► Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment. Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.

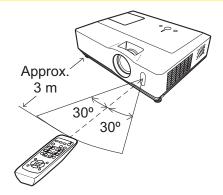
- Make sure the plus and minus terminals are correctly aligned when loading a battery.
- Keep a battery away from children and pets.
- Do not recharge, short circuit, solder or disassemble a battery.
- Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
- If you observe 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.

Remote control

Changing the frequency of remote control signal

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

In order to set the Mode, please keep pressing the combination of two buttons listed below simultaneously for about 3 seconds. (1) Set to Mode 1:NORMAL... MUTE and RESET buttons (2) Set to Mode 2:HIGH... MAGNIFY OFF and ESC buttons Please remember that the REMOTE FREQ. in the SERVICE item of the OPTION menu (**144**) of the projector to be controlled should be set to the same mode as the remote control.

Using as a simple PC mouse & keyboard

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

- (1) HOME key: Press HOME button.
- (2) END key: Press END button.
- (3) PAGE UP key: Press PAGE UP button.
- (4) PAGE DOWN key: Press PAGE DOWN button.
- (5) Mouse left button: Press ENTER button.
- (6) Move pointer: Use the cursor buttons \blacktriangle , \triangledown , \triangleleft and \triangleright .
- (7) ESC key: Press ESC button.
- (8) Mouse right button: Press RESET button.

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

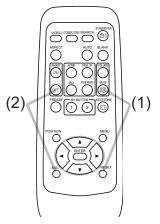
NOTE • When the simple mouse & keyboard function of this product does not work correctly, please check the following.

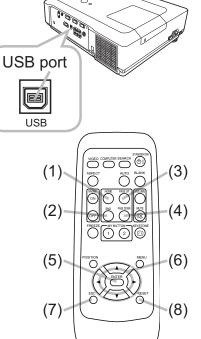
- When the mouse cable connects this projector with a PC having a built-in pointing device (e.g. track ball) like a notebook PC, open BIOS setup menu, then select the external mouse and disable the built-in pointing device, because the built-in pointing device may have priority to this function.

- Windows 95 OSR 2.1 or higher is required for this function. And also this function may not work depending on the PC's configurations and mouse drivers.

- You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).

- This function is activated only when the projector is working properly. This function is not available while the lamp is warming up (the POWER indicator blinks green), and while adjusting the volume and display, correcting for keystone, zooming in on the screen, using the BLANK function, or displaying the menu screen.





Power on/off

Turning on the power

- 1 Make sure that the power cord is firmly and correctly connected to the projector and the outlet.
- 2. Remove the lens cover, and set the power switch to ON position (marked " I ").

The POWER indicator will light up in steady orange (**156**). Then wait several seconds because the buttons may not function for these several seconds.

3. Press STANDBY/ON button on the projector or the remote control.

The projection lamp will light up and POWER indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green ($\square 56$).



To display the picture, select an input signal according to the section "Selecting an input signal" (**1116**).

Turning off the power

- 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 POWER indicator will stop blinking and light in steady orange when the lamp cooling is complete(156).
- 3. Make sure that POWER indicator lights in steady orange, and set the power switch to OFF position (marked "O").



POWER indicator will go off. Attach the lens cover.

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.

▲**CAUTION** ► 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 door 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. Power off the projector after all of connected devices are powered off.

The projector has the AUTO ON function, which can make the projector automatically turn on. For more information, please see AUTO ON item of OPTION menu (40).
Use the shutdown switch (457) only when the projector is not turned off by normal procedure.

Operating

Operating

Adjusting the volume

- Press VOLUME button on the remote control.
- A dialog will appear on the screen to aid you in adjusting the volume.
- **2.** Use the $\blacktriangle/\checkmark$ cursor buttons to adjust the volume.
- To close the dialog and complete the operation, press the VOLUME button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.
- When 🕱 is selected for current picture input port, the volume adjustment is disable. Please see AUDIO item of SETUP menu (235).

Temporarily muting the sound

- Press MUTE button on the remote control.
- A dialog will appear on the screen indicating that you have muted the sound. To restore the sound, press the MUTE or VOLUME button. Even if you do not do anything, the dialog will automatically disappear after a few seconds.
- When x is selected for current picture input port, the sound is always muted. Please see AUDIO item of SETUP menu (135).

Selecting an input signal

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

 \rightarrow COMPUTER IN 1 \rightarrow COMPUTER IN 2 -

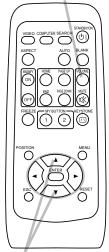
- Press COMPUTER button on the remote control. Each time you press the button, the projector switches its input port as below.

 \rightarrow COMPUTER IN 1 \rightarrow COMPUTER IN 2

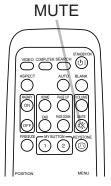
 If COMPUTER button is pushed to switch from a signal from VIDEO, S-VIDEO or COMPONENT port, when TURN ON is selected for AUTO SEARCH item in OPTION menu (440), the projector will check COMPUTER IN1 port first. If no input is detected at the port, the projector will check COMPUTER IN2 port.

(continued on next page)

VOLUME



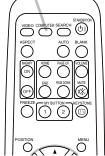








COMPUTER



Selecting an input signal (continued)

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

 \rightarrow COMPONENT(Y, Cb/Pb, Cr/Pr) \rightarrow S-VIDEO \rightarrow VIDEO

• If VIDEO button is pushed to switch from a signal from COMPUTER IN1 or 2 port, when TURN ON is selected for AUTO SEARCH item in OPTION menu (**4**0), the projector will check COMPONENT port first. If no input is detected at the port, the projector will

check the other port in above order.

Searching an input signal

Press SEARCH button on the remote control. 1

The projector will start to check its input ports in order to find any input signals.

When an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected before the operation.

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

Selecting an aspect ratio

Press ASPECT button on the remote control.

Each time you press the button, the projector switches the mode for aspect ratio in turn.

O For a computer signal

NORMAL \rightarrow 4:3 \rightarrow 16:9 \rightarrow SMALL

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

 $4:3 \rightarrow 16:9 \rightarrow 14:9 \rightarrow SMALL$

O For no signal

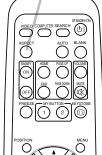
4:3 (fixed)

- ASPECT button does not work when no proper signal is inputted.
- NORMAL mode keeps the original aspect ratio setting.

VIDEO







Operating

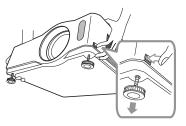
Adjusting the projector's elevator

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

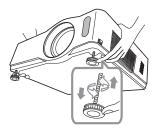
Using the feet can also tilt the projector in order to project at a suitable angle to the screen, elevating the front side of the projector within 10 degrees.

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.

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



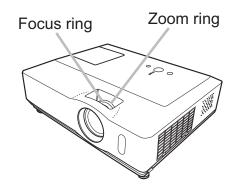
To finely adjust, twist the foot.

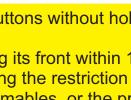
▲**CAUTION** ► Do not handle the elevator buttons without holding the projector, since the projector may drop down.

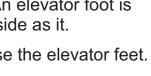
Do not tilt the projector other than it elevating its front within 10 degrees using the adjuster feet. A tilt of the projector exceeding the restriction could cause malfunction or shortening the lifetime of consumables, or the projector itself.

Adjusting the zoom and focus

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







10°

Using the automatic adjustment feature

- **1** Press AUTO button on the remote control.
- Pressing this button performs the following.
 - O For a computer signal

The vertical position, the horizontal position and the horizontal phase will be automatically adjusted. And the horizontal size will be automatically set to the default.

Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.

○ For a video signal, s-video signal or component video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when AUTO is selected for VIDEO FORMAT item in INPUT menu (□32).

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

- The automatic adjustment operation requires several 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.
- The items adjusted by this function may vary when FINE or DISABLE is selected for AUTO ADJUST item of SERVICE item in OPTION menu (**Q43**).

Adjusting the position

1. Press POSITION button on the remote control when no menu is indicated.

The "POSITION" indication will appear on the screen.

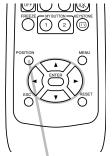
2. Use the A/V/A/F cursor buttons to adjust the picture position.

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

To complete this operation, press 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 OVER SCAN in IMAGE menu (**129**) setting. It is not possible to adjust when OVER SCAN is set to 10.
- If POSITION button is pressed when a menu is indicated on screen, the displayed picture does not move its position but the menu does.





POSITION



19

Operating

Correcting the keystone distortions

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

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

- The adjustable range of this correction will vary among inputs. For some input, this function may not work well.
- When V:INVERT or H&V:INVERT is selected for MIRROR item in SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly.
- When the zoom adjustment is set to TELE (telephoto focus), the automatic keystone distortion correction may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible.
- When the projector is placed on the level (about ±0°), the automatic keystone distortion correction may not work.
- When the projector is inclined to near ±30 degree or over, this function may not work well.
- This function will be unavailable when Transition Detector is on (49).

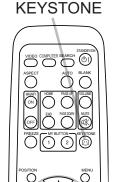
Using the magnify feature

- Press the ON button of MAGNIFY on the remote control.
 The "MAGNIFY" indication will appear on the screen and the projector will go into the MAGNIFY mode. The indication will disappear in several seconds with no operation.
- **2.** Use the \blacktriangle/\lor cursor buttons to adjust the zoom level.
- To move the zoom area, press POSITION button in the MAGNIFY mode, then use the ▲/▼/◀/▶ cursor buttons to move the area. And to finalize the zoom area, press POSITION button again.

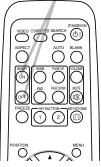
To exit from the MAGNIFY mode and restore the screen to normal, press the OFF button of MAGNIFY on the remote control.

- The projector automatically exits from the MAGNIFY mode when the input signal is changed or when the display condition is changed.
- 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.



MAGNIFY ON/OFF



Freezing the screen

- Press FREEZE button on the remote control.
- The "FREEZE" indication will appear on the screen (however, the indication will not appear when TURN OFF is selected for MESSAGE item in SCREEN menu (139), and the projector will go into the FREEZE mode.

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

 The projector automatically exits from the FREEZE mode when one of the projector's buttons or remote control buttons of

STANDBY/ON, SEARCH, COMPUTER, VIDEO, BLANK, AUTO, VOLUME, MUTE, KEYSTONE, MENU, MAGNIFY and MY BUTTON1/2(except MY MEMORY or PICTURE MODE is assigned to) (442) is pressed.

• If the projector continues projecting a still image for a long time, the LCD panel might possibly be burned in. Do not leave the projector in the FREEZE mode for too long.

Temporarily blanking the screen

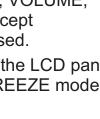
- Press BLANK button on the remote control.
- The blank screen will be displayed instead of the screen of input signal. Please refer to BLANK item in SCREEN menu (236).

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

• The projector automatically returns to the input signal screen when one of the projector's buttons or the remote control buttons (except ASPECT, POSITION, MAGNIFY or FREEZE button, also

except MY BUTTON1/2 if AUTO KEYSTONE IN EXECUTE or MY MEMORY or PICTURE MODE is assigned to (**142**)) is pressed.

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







FREEZE

ASPECT

Operating

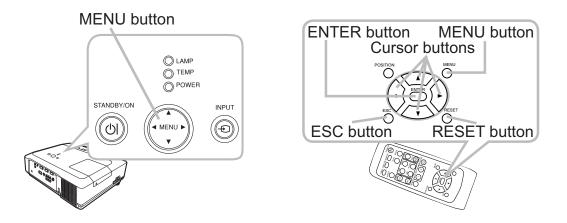
Using the menu function

This projector has the following menus:

PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION and EASY MENU.

EASY MENU consists of functions often used, and the other menus are classified into each purpose and brought together as Advanced Menu.

Each of these menus is operated using the same methods. The basic operations of these menus are as follows.



1 Press the MENU button on the remote control or the projector.

The Advanced Menu or EASY MENU, which has priority just after powered on will appear.

If you want to move the menu position, use the cursor buttons after pressing the POSITION button. While the projector is displaying any menu, MENU button on the projector works as the cursor buttons.

In the EASY MENU

- 2. If you want to change it to the Advanced Menu, select the "Go to Advanced Menu..."
- 3. Use the \blacktriangle/∇ cursor buttons to select an item to operate.
- \checkmark Use the \triangleleft / \triangleright cursor buttons to operate the item.



EASY MENU

Using the menu function (continued)

In the Advanced Menu

- **9** Use the \blacktriangle/∇ cursor buttons to select a menu.
 - If you want to change it to the EASY MENU, select EASY MENU.

Then press the ► cursor button, or ENTER button to select an item. The lower layer menu of the selected item will appear.

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

Advanced Menu

3. Use the $\blacktriangle/\checkmark$ cursor buttons to select an item to operate.

Then press the \blacktriangleright cursor button, or ENTER button to progress. The operation menu of the selected item will appear.

- **4** Use the \blacktriangle/ \lor cursor buttons to operate the item.
 - Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed.
 - When you want to reset the operation, press RESET button on the remote control during the operation. Note that some items (ex. LANGUAGE, H PHASE, VOLUME) cannot be reset.
- **5.** Press MENU button on the remote control again to close the menu and complete this operation. Even if you do not do anything, the dialog will automatically disappear after about 10 seconds.

EASY MENU

EASY MENU

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

Select an item using the \blacktriangle/∇ cursor buttons. Then perform it according to the following table.



ASPECT Se AUTO Us KEYSTONE (\) Us KEYSTONE (\) Us KEYSTONE (\) Us Image: Second conduction of the s	ee the ASPECT iter sing the ► button e ee AUTO KEYSTON sing the ◄/► butto ee KEYSTONE (\) sing the ◀/► butto he picture modes an	ns switches the mode for a m in IMAGE menu (129). executes the auto keystone E (\) EXECUTE item in SET ns corrects the vertical key item in SETUP menu (13) ns switches the picture mo re combinations of GAMM, ose a suitable mode accord	e function. UP menu (134). vstone distortion. 4). ode. A and COLOR
KEYSTONE (\) Us EXECUTE Us KEYSTONE (\) Us See Us The The See See	e AUTO KEYSTON sing the ◀/► butto e KEYSTONE ☑ sing the ◀/► butto e picture modes an EMP settings. Choc	E 🔼 EXECUTE item in SET ns corrects the vertical key item in SETUP menu (ns switches the picture mo re combinations of GAMM	UP menu (134). vstone distortion. 4). ode. A and COLOR
Se Us The TE Sou	e KEYSTONE () sing the ◀/▶ butto e picture modes an EMP settings. Choo	item in SETUP menu (a4). ode. A and COLOR
The TE sou	e picture modes an EMP settings. Choc	re combinations of GAMM	A and COLOR
PICTURE MODE	⇒ DAYTIME ⇔ W NORMAL CINEMA DYNAMIC BOARD(BLACK) BOARD(GREEN) VHITEBOARD DAYTIME When the combinat om pre-assigned mo	OARD(BLACK) ← GREEN) ← GAMMA #1 DEFAULT #2 DEFAULT #3 DEFAULT #4 DEFAULT #4 DEFAULT #5 DEFAULT #6 DEFAULT #6 DEFAULT R TEMP differs the menu for the GAMMA (126) and	

EASY MENU (continued)

ltem	Description
BRIGHTNESS	Using the ◄/▶ buttons adjusts the brightness. See BRIGHTNESS item in PICTURE menu (□ 26).
CONTRAST	Using the ◀/▶ buttons adjusts the contrast. See CONTRAST item in PICTURE menu (□26).
COLOR	Using the ◄/ ► buttons adjusts the strength of whole color. See COLOR item in PICTURE menu (□26).
TINT	Using the ◄/ ▶ buttons adjusts the tint. See TINT item in PICTURE menu (□ 26).
SHARPNESS	Using the ◀/▶ buttons adjusts the sharpness. See SHARPNESS item in PICTURE menu (□27).
WHISPER	Using the ◄/▶ buttons turns off/on the whisper mode. See WHISPER item in SETUP menu (□ <i>35</i>).
MIRROR	Using the ◄/ ► buttons switches the mode for mirror status. See MIRROR item in SETUP menu (□ 35).
RESET	Performing this item resets all of EASY MENU items except FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting RESET using the ▲ button performs resetting.
FILTER TIME	 Performing this item resets the filter time which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting RESET using the ▲ button performs resetting. See FILTER TIME item in OPTION menu (¹⁴¹).
LANGUAGE	Using the ◄/▶ buttons changes the display language. See LANGUAGE item in SCREEN menu (□36).
Go to Advanced MenuSelect "Go to Advanced Menu" on the menu, and press th or ENTER button to use the menu of PICTURE, IMAGE, INF SETUP, SCREEN or OPTION.	

PICTURE Menu

PICTURE Menu

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

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

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

ltem	Description					
BRIGHTNESS	Using the ▲/▼ buttons adjusts the brightness. Light ⇔ Dark					
CONTRAST	Using the ▲/▼ buttons adjusts the contrast. Strong ⇔ Weak					
GAMMA	Using the ▲/▼ buttons switches the gamma mode. #1 DEFAULT ⇔ #1 CUSTOM ⇔ #2 DEFAULT ⇔ #2 CUSTOM \$\$\$ #6 DEFAULT ⇔ #3 DEFAULT \$\$\$\$ #6 CUSTOM #3 CUSTOM \$\$\$\$\$ #5 DEFAULT ⇔ #5 CUSTOM ⇔ #4 DEFAULT ⇔ #4 CUSTOM To adjust the "CUSTOM" modes, see "To adjust CUSTOM function					
COLOR TEMP	in GAMMA and COLOR TEMP" (□28). Using the ▲/▼ buttons switches the color temperature mode. #1 HIGH DEFAULT ⇔ #1 HIGH CUSTOM ⇔ #2 MID DEFAULT #6 Hi-BRIGHT-3 CUSTOM #6 Hi-BRIGHT-3 DEFAULT #5 Hi-BRIGHT-2 CUSTOM #5 Hi-BRIGHT-2 DEFAULT ⇔ #4 Hi-BRIGHT-1 CUSTOM ⇔ #4 Hi-BRIGHT-1 DEFAULT To adjust the "CUSTOM" modes, see "To adjust CUSTOM function in GAMMA and COLOR TEMP" (□28).					
COLOR	 Using the ▲/▼ buttons adjusts the strength of whole color. Strong ⇔ Weak This item can be selected only for a video signal, s-video or component video signal. 					
ΤΙΝΤ	 Using the ▲/▼ buttons adjusts the tint. Greenish ⇔ Reddish This item can be selected only for a video signal, s-video or component video signal. 					

PICTURE Menu (continued)

Item	Description
SHARPNESS	 Using the ▲/▼ buttons adjusts the sharpness. Strong ⇔ Weak There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.
MY MEMORY	 This projector has 4 memories for adjustment data (for all the items of PICTURE menu). Selecting a function using the ▲/▼ buttons and pressing the ► or ENTER button performs each function.

PICTURE Menu

PICTURE Menu (continued)

To adjust CUSTOM function in GAMMA and COLOR TEMP

Selecting a mode whose name includes CUSTOM in GAMMA or COLOR TEMP item and then pressing the ► button or ENTER button displays a dialog to aid you in adjusting the mode.

Choose an item using the $\triangleleft/\triangleright$ buttons, and adjust the level using the $\blacktriangle/\triangledown$ buttons.

• When this function is performed, lines or other distortion may appear.



GAMMA



You can display a test pattern on the top of the screen for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below.

```
No pattern ⇔ Gray scale of 9 steps

☆ ↓

Ramp ⇔ Gray scale of 15 steps
```

• You can also adjust each function without displaying test patterns.

for adjusting GAMMA

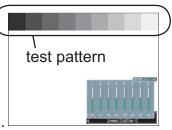
You can change the brightness of particular tones.

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.

for adjusting COLOR TEMP

You can change the intensity of each of 3 colors (Red, Green, Blue).

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.



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

Select an item using the \blacktriangle/\lor cursor buttons, and press the \triangleright cursor button or ENTER button to execute the item. Then perform it according to the following table.

ltem	Description
ASPECT	Using the ▲/▼ buttons switches the mode for aspect ratio. For a computer signal NORMAL ⇔ 4:3 ⇔ 16:9 ⇔ SMALL ↑ For a video signal, s-video signal or component video signal 4:3 ⇔ 16:9 ⇔ 14:9 ⇔ SMALL ↑ ↑
	 For no signal 4:3 (fixed) This item can be selected only for a proper signal. NORMAL mode keeps the original aspect ratio setting.
OVER SCAN	 Using the ▲/▼ buttons adjusts the over-scan ratio. Large (It reduces picture) ⇔ Small (It magnifies 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 ▲/▼ buttons adjusts the vertical position. Up ⇔ Down 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 RESET button when V POSITION is selected will reset 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 OVER SCAN (□<i>above</i>) setting. It is not possible to adjust when OVER SCAN is set to 10.
H POSITION	 Using the ▲/▼ 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 RESET button when H POSITION is selected will reset 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 OVER SCAN (□<i>above</i>) setting. It is not possible to adjust when OVER SCAN is set to 10.

MENU [COMPI	UTER 1]	():SELECT
PICTURE	ASPECT	4:3
IMAGE	OVER SCAN	5
INPUT	V POSITION	25
SETUP	H POSITION	142
SCREEN	H PHASE	16
OPTION	H SIZE	1344
EASY MENU	AUTO ADJUST	EXECUTE

IMAGE Menu

IMAGE Menu (continued)

ltem	Description
H PHASE	Using the ▲/▼ buttons adjusts the horizontal phase to eliminate flicker. Right ⇔ Left
	• This item can be selected only for a computer signal or component video signal.
	Using the $\blacktriangle/\blacksquare$ buttons adjusts the horizontal size.
H SIZE	Large ⇔ Small
	 This item can be selected only for a computer signal. When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment by pressing the RESET button during this operation.
	Executing this item performs the automatic adjustment feature.
AUTO ADJUST	 For a computer signal The vertical position, the horizontal position and the horizontal phase (¹⁴³) will be automatically adjusted. And the horizontal size will be automatically set to the default. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting. For a video signal, s-video signal or component video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO mode is selected to
EXECUTE	VIDEO FORMAT item in INPUT menu (132). The vertical position and horizontal position will be automatically set to the the default.
	 For a component video signal, also the horizontal phase will be automatically set to the default. The automatic adjustment operation requires several 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. The items adjusted by this function may vary when FINE or DISABLE is selected for AUTO ADJUST item of SERVICE item in OPTION menu (143).

INPUT Menu

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

Select an item using the \blacktriangle/\lor cursor buttons, and press the \triangleright cursor button or ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPL	C:SELECT		
PICTURE IMAGE SETUP SCREEN OPTION EASY MENU	PROGRESSIVE VIDEO NR COLOR SPACE COMPONENT VIDEO FORMAT FRAME LOCK COMPUTER IN RESOLUTION	MID AUTO COMPONENT AUTO	

Item	Description	
	Using the ▲/▼ buttons switches the progress mode. TV ⇔ FILM ⇔ TURN OFF	
PROGRESSIVE	 This function is performed only for an interlaced signal of a video, s-video or component video of 525i (480i) or 625i (576i) signal. When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select TURN OFF, even though the screen image may lose the sharpness. 	
	Using the ▲/▼ buttons switches the noise reduction mode. HIGH ⇔ MID ⇔ LOW	
VIDEO NR	 This function performs only for a video, s-video or component video of 525i(480i) or 625i(576i) signal. When this function is excessive, it may cause a certain degradation of the picture. 	
	Using the ▲/▼ buttons switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 ↑	
COLOR SPACE	 This item can be selected only for a computer signal or component video signal except SCART RGB signal. The AUTO mode automatically selects the optimum mode. The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO. 	
COMPONENT	Using the ▲/▼ buttons switches the function of the COMPONENT (Y, Cb/Pb, Cr/Pr) port.	
	COMPONENT ⇔ SCART RGB When the SCART RGB is selected, COMPONENT (Y, Cb/Pb, Cr/ Pr) and VIDEO ports will function as a SCART RGB port. A SCART cable is required for a SCART RGB input to the projector. For your reference, see the TECHNICAL part.	

INPUT Menu

INPUT Menu (continued)

ltem	Description	
VIDEO FORMAT	 The video format for S-VIDEO port and VIDEO port can be set. (1) Use the ◄/► buttons to select the input port. (2) Using the ▲/▼ 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 VIDEO port or 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. 	
FRAME LOCK	 Using the ▲/▼ buttons turns the frame lock function on/off. TURN ON ⇔ TURN OFF This item can be performed only on a computer signal with a vertical frequency of 50 to 60 Hz. When the TURN ON is selected, a moving pictures are displayed more smoothly. This function may cause a certain degradation of the picture. In such a case, please select TURN OFF. 	
COMPUTER IN	 The computer input signal type for COMPUTER IN1 and IN2 ports can be set. (1) Use the ◄/► buttons to select the input port to be set. COMPUTER (IN)1 ⇔ COMPUTER (IN)2 (2) Use the ▲/▼ buttons to select the computer input signal type. SYNC ON G ON ⇔ SYNC ON G OFF Selecting SYNC ON G ON allows reception of sync on Green signal. When SYNC ON G ON is selected, the picture may be distorted with certain input signals. In such a case, remove the signal connector first and select SYNC ON G OFF on the menu, and then reconnect the signal. 	

INPUT Menu (continued)

Item	Description		
	The resolution for the COMPUTER IN1 a be set on this projector. (1) In INPUT menu select RESOLUTION and press the ▶ button. The RESOLUTION menu will be displayed	using the ▲/▼ buttons	
	 (2) In the RESOLUTION menu, select the resolution you wish to display using the ▲/▼ buttons. Selecting AUTO will set a resolution appropriate to the input signal. 	RESOLUTION • AUTO • 1024×768 • 1280×768 • 1360×768 CUSTOM • 1440×768	
	(3) STANDARD Pressing the ► or ENTER button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size and automatically select a aspect ratio.	STANDARD ↓ COMPUTER 1 1280×768 @60Hz	
RESOLUTION	 (3) CUSTOM (3)-1 To set a custom resolution use the ▲/▼ buttons to select the CUSTOM and the CUSTOM RESOLUTION box will be displayed. Set the horizontal (HORZ) and vertical (VERT) resolutions using the ▲ /▼/◄/► buttons. Although not all resolutions are guaranteed. (3)-2 To save the setting place the 		
	 cursor on the right-most digit and press the ▶ button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted and an aspect ratio will be automatically selected. (3)-3 To revert back to the previous resolution without saving changes place the cursor on the left-most digit and press the ◄ button. The screen will then return to the RESOLUTION menu displaying the previous resolution. 	COMPUTER 1 992×744 @60Hz RESOLUTION • AUTO • 1024×768 • 1280×768 • 1360×768 CUSTOM • 992×744 • 992×744	
	For some pictures, this function may no	t work well.	

SETUP Menu

SETUP Menu

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

Select an item using the \blacktriangle/\lor cursor buttons, and press the \triangleright cursor button or the ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPL	ITER 1]	C:SELECT
PICTURE IMAGE INPUT SETUP SCREEN OPTION EASY MENU	AUTO KEYSTONI KEYSTONE WIISPER MIRROR VOLUME SPEAKER AUDIO	E ⊘EXECUTE +0 NORMAL NORMAL 16 TURN ON

ltem	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 for correction will vary among inputs. For some input, this function may not work well. When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly. When the zoom adjustment is set to the TELE (telephoto focus), this function may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible. When the projector is placed on the level (about ±0°), 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 (149). 	
KEYSTONE 🔼	 Using the ▲/▼ buttons corrects the vertical keystone distortion. Shrink the top of the image ⇔ Shrink the bottom of the image The adjustable range of this function will vary with the type of input signal. For some input, this function may not work well. This function will be unavailable when the Transition Detector is on (¹/₁49). 	

SETUP Menu (continued)

ltem	Description	
WHISPER	 Using the ▲/▼ buttons turns off/on the whisper mode. NORMAL ⇔ WHISPER When WHISPER is selected, acoustic noise and screen brightness are reduced. 	
MIRROR	Using the ▲/▼ buttons switches the mode for mirror status. ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
VOLUME	Using the ▲/▼ buttons adjusts the volume. High ⇔ Low	
SPEAKER	Using the ▲/▼ buttons turns on/off the built-in speaker. TURN ON ⇔ TURN OFF When TURN OFF is selected, the built-in speaker does not work.	
AUDIO	 Allocates the audio ports. (1) Choose a picture input port using the ▲/▼ buttons. COMPUTER (IN)1 ⇔ COMPUTER (IN)2 ↓ VIDEO ⇔ S-VIDEO ⇔ COMPONENT (2) Select the audio port to be interlocked with the input port using the ◄/► buttons. 1 ⇔ 2 ⇔ 3 ⇔ ¥ ↓ When ¥ is selected to an input port, any audio ports do not work interlocking with the input port, and any items in AUDIO 	

SCREEN Menu

SCREEN Menu

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

Select an item using the \blacktriangle/\lor cursor buttons, and press the \triangleright cursor button or ENTER button to execute the item. Then perform it according to the following table.

MENU [COMPUTER 1]	
LANGUAGE (MENU POSITION	ENGLISH
BLANK	BLACK
START UP	ORIGINAL
MyScreen	
MyScreen Lock	TURN OFF
MESSAGE SOURCE NAME	TURN ON
	MENU POSITION BLANK START UP MyScreen MyScreen Lock MESSAGE

ltem	Description		
LANGUAGE	Using the ▲/▼ buttons switches the OSD (On Screen Display) language. ENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⇔ ITALIANO		
MENU POSITION	Using the ▲/▼/◀/▶ buttons adjusts the menu position. To quit the operation, press MENU button on the remote control or keep no operation for about 10 seconds.		
	Using the ▲/▼ buttons switches the mode for the blank screen. The blank screen is a screen for the temporarily blanking feature (121). It is displayed by pressing BLANK button. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK		
BLANK	MyScreen	Feature Screen can be registered by the MyScreen item (138). Screen preset as the standard screen.	
	BLUE, WHITE, BLACK	Plain screens in each color.	
		as an afterimage, the MyScreen or ORIGINAL o the plain black screen after several minutes.	

SCREEN Menu (continued)

ltem	Description	
	Using the ▲/▼ buttons switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected. MyScreen ⇔ ORIGINAL ⇔ TURN OFF	
		Feature
	MyScreen	Screen can be registered by the MyScreen item (138).
START UP	ORIGINAL	Screen preset as the standard screen.
	TURN OFF	Plain black screen.
	 To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the BLANK screen (136) after several minutes. If also the BLANK screen is the MyScreen or ORIGINAL, the plain black screen is instead used. When the TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (146), the START UP is fixed to MyScreen. 	

SCREEN Menu

SCREEN Menu (continued)

ltem	Description		
	This item allows you to capture an image for use as a MyScreen image which can be used as the BLANK screen and START UP screen. Display the image you want to capture before executing the following procedure. 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 button when the image is displayed. The image will freeze and the frame for capturing will appear. To stop performing, press the RESET or ESC button.		
MyScreen	 2. Using the ▲/▼/◄/> 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 button. To restore the screen and return to the previous dialog, press the RESET or ESC button. Registration takes several minutes. When the registration is completed, the registered screen and the following message are 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 TURN ON is selected to the MyScreen Lock item (below). This function cannot be selected when TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (46). 		
MyScreen Lock	 Using the ▲/▼ buttons turns on/off the MyScreen lock function. TURN ON ⇔ TURN OFF When the TURN ON is selected, the MyScreen item is locked. Use this function for protecting the current MyScreen. This function cannot be selected when TURN ON is selected to the MyScreen PASSWORD of SECURITY item in OPTION menu (□46). 		

SCREEN Menu (continued)

ltem	Description		
	Using the ▲/▼ buttons turns on/off the message function. TURN ON ⇔ TURN OFF		
MESSAGE	 When the TURN ON is selected, the following message function works. "AUTO IN PROGRESS" while automatically adjusting "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "Searching" while searching for the input "Detecting" while an input signal is detected The indication of the input signal displayed by changing The indication of the PICTURE MODE displayed by changing The indication of the MY MEMORY displayed by changing The indication of "FREEZE" and "II" while freezing the screen by pressing FREEZE button. When TURN OFF is selected, please remember if the picture is freezing. Do not mistake freezing for a malfunction (1221). 		
SOURCE NAME	Each input port for this projector can have a name applied to it. (1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ▶ button. The SOURCE NAME menu will be displayed. (2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ▶ button. Right side of the menu is blank until a name is specified. The SOURCE NAME dialog will be displayed. (3) The current name will be displayed on the first line. Use the ▲/▼/◄/▶ buttons and the ENTER or INPUT button to select and enter characters. The RESET button can be used to erase 1 character at a time. The name can be a maximum of 16 characters. (4) To change an already inserted character, press the ▲ button while the cursor is on the [A-N] row to move the cursor to the name displayed on the first line and use the ◄/▶ buttons to select character to be changed. Once a character in the name is selected use the ▼ button to move the cursor back down to the character entry area to select and enter characters as described above. (5) Select [] and press ENTER or INPUT buttons when finished entering text. To revert to the previous name without saving changes press the ESC or ◄ button and the INPUT button simultaneously.		

OPTION Menu

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

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

JTER 1]	C:SELECT
AUTO SEARCH	TURN ON
AUTO KEYSTONE	TURN ON
AUTO ON	TURN ON
AUTO OFF	Omin
LAMP TIME	1234h
FILTER TIME	123h
MY BUTTON SERVICE SECURITY	
	AUTO KEYSTONE AUTO ON AUTO OFF LAMP TIME FILTER TIME MY BUTTON SERVICE

ltem	Description	
AUTO SEARCH	Using the ▲/▼ buttons turns on/off the automatic signal search function. TURN ON ⇔ TURN OFF When the TURN ON is selected, detecting no signal automatically cycles through input ports in the following order. The search is started from the current port. Then when an input is found, the projector will stop searching and display the image. COMPUTER IN1 ⇔ COMPUTER IN2 VIDEO ⇔ S-VIDEO ⇔ COMPONENT ↓	
AUTO KEYSTONE 🔼	 Using the ▲/▼ buttons turns on/off the automatic keystone function. TURN ON ⇔ TURN OFF TURN ON : Automatic keystone distortion correction will be executed whenever changing the slant of the projector. TURN 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 TURN OFF. This function will be unavailable when the Transition Detector is on (Q49). 	
AUTO ON	 Using the ▲/▼ buttons turns on/off the AUTO ON function. TURN ON ⇔ TURN OFF When set to the TURN ON, the lamp in projector will be automatically turned on without the usual procedure (115), 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 AUTO ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO OFF function (141) is disabled. 	

OPTION Menu (continued)

ltem	Description
	Using the ▲/▼ buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE)
	AUTO OFF ENABLE 1min Omin
AUTO OFF	When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with no- signal or an unsuitable signal reaches at the set time, the projector lamp will be turned off. If one of the projector's buttons or the remote control buttons is pressed or one of the commands (except get commands) is transmitted to the CONTROL port during the corresponding time, projector will not be turned off. Please refer to the section "Turning off the power" (115).
LAMP TIME	 The lamp time is the time counted after the last resetting. It is shown in OPTION menu as the usage time of the lamp. Pressing RESET button or the ► button displays a dialog. To reset the lamp time, select RESET using the ▲ button. RESET ⇐ CANCEL Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp. For the lamp replacement, see the section "Lamp" (□51).
FILTER TIME	 The filter time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the air filter. Pressing the RESET button or the ► button displays a dialog. To reset the filter time, select the RESET using the ▲ button. RESET ⇔ CANCEL Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter. For the air filter cleaning, see the section "Air filter" (153).

OPTION Menu (continued)

Item	Description	
	 This item is to assign one of the follo 1 and 2 on the remote control (□6). Choose 1 or 2 on the MY BUTTON first. Then using the ▲/▼ buttons set to the chosen button. COMPUTER1: Sets port to COMP COMPUTER2: Sets port to COMP COMPONENT: Sets port to COMP COMPONENT: Sets port to COMP S-VIDEO: Sets port to S-VIDEO. VIDEO: Sets port to VIDEO. INFORMATION: Displays a dialog of AUTO KEYSTONE I EXECUTE: Performs automatic keystone distor MY MEMORY: Loads one of adjustment data stor 	menu using the ◀/► button ets one of the following functions PUTER IN1. PUTER IN2. PONENT(Y, Cb/Pb, Cr/Pr) of INPUT INFORMATION (1 44). ortion correction (1 34).
MY BUTTON	When the current adjustment is not saved to memory a dialog is displayed.	When no data is saved in memory, a dialog is displayed.
	MY BUTTON; Recall saved parameters (MY MEMORY); Recall saved parameters (U) Quit If you want to keep the current a button to quit. Otherwise the curre by loading a data. • PICTURE MODE: Changes the PI • FILTER RESET: Displays the filter time reset confirm • VOLUME+: Set the volume up.	ent adjusted condition will be lost CTURE MODE (Q24).
	VOLUME-: Set the volume down. Selecting this item displays the SEF Select on item using the A (We butter)	
SERVICE	Select an item using the ▲/▼ buttons, and press the ► button or the ENTER button to execute the item. FAN SPEED ⇔ AUTO ADJUST ⇔ GHOST ⇔ FILTER MESSAGE ⇔ KEY LOCK ↓ FACTORY RESET ⇔ I NFORMATION ⇔ REMOTE FREQ. ↓	
	FAN SPEED Using the ▲/▼ buttons switches speed of the cooling fans. The HIG for use at highlands etc. Note that t noisier when the HIGH is selected. HIGH ⇔ NORMAL	H is the mode

OPTION Menu (continued)

ltem	Description
	AUTO ADJUST Using the ▲/▼ buttons enables/disables the automatic adjustment. When DISABLE is selected, the automatic adjustment feature is disabled, although rough adjustment is automatically performed depending on the basic setting. FINE ⇔ FAST ⇔ DISABLE FINE: Finer tuning including H.SIZE adjustment. FAST: Faster tuning, setting 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 DISABLE to disable the automatic adjustment, and make adjustment manually.
SERVICE (continued)	 GHOST 1. Select a color element of ghost using the buttons. 2. Adjust the selected element using the ▲/▼ buttons to disappear ghost.
	FILTER MESSAGE Use the ▲/▼ button to set the timer for the interval to show the message for cleaning up the air filter. 50h ⇔ 100h ⇔ 200h ⇔ 300h ⇔ 400h ⇔ 500h
	LAST FILTER CHECK" will appear after the timer reaches the interval time set by this feature (155). When the "TURN 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 check and clean the air filter periodically, even if there is no message. If the air filter becomes to be blocked by dust or others, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector. Please be careful with the operating environment of the projector and the condition of the air filter.

OPTION Menu (continued)

ltem	Description
	 KEY LOCK Using the ▲/▼ buttons turns on/off the key lock feature. When TURN ON is selected, the buttons on the projector except the STANDBY/ON button are locked. TURN ON ⇔ TURN OFF Please use to avoid a mischief and touching accidentally. This function does not have any effect on the remote control.
SERVICE	REMOTE FREQ. Use the ▲/▼ button to change the projector's remote sensor setting. 1:NORMAL ⇔ 2:HIGH Items with a checkmark are on. The factory default setting is for both 1:NORMAL and 2: HIGH to be on. If the remote control does not function correctly set this to either only 1 or only 2 (114). Neither can be turned off at the same time.
(continued)	INFORMATION Selecting this item displays a dialog titled "INPUT INFORMATION". It shows the information about the current input. INPUT-INFORMATION- COMPUTER 1 1024×768 @60Hz FRAME LOCK
	 The "FRAME LOCK" message on the dialog means the frame lock function is working (¹³32). This item can't be selected for no signal and sync out.
	FACTORY RESET Selecting RESET using the button ▲ performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME, LANGUAGE and SECURITY are not reset. RESET ⇔ CANCEL

OPTION Menu (continued)

ltem	Description	
	This projector is equipped with security functions. User registration is required before using the security functions. Please contact your local dealer.	
	1. Using Security Features	
	1.1 Inputting the PASSWORD	
	 1.1-1 Use the ▲/▼ buttons on the OPTION menu to select SECURITY and press the button. The ENTER PASSWORD box will be displayed. The factory default PASSWORD is 4473. This PASSWORD can be changed (1.2 Changing the PASSWORD). It is strongly recommended the factory default PASSWORD to be changed as soon as possible. 	
SECURITY	1.1-2 Use the ▲/▼/◀/► buttons to enter the registered PASSWORD. Move the cursor to the right side of the ENTER PASSWORD box and press the ► button to display the SECURITY menu. 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.	
	1.2 Changing the PASSWORD	
	1.2-1 Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD box.	
	1.2-2 Use the ▲/▼/◀/► buttons to enter the new PASSWORD.	
	1.2-3 Move the cursor to the right side of the ENTER NEW PASSWORD box and press the ► button to display the NEW PASSWORD AGAIN to a context the same PASSWORD AGAIN box, enter the same PASSWORD again.	
	1.2-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► button and the NOTE NEW PASSWORD box will be displayed for about 20 seconds, please make note of the PASSWORD during this time. Pressing the ENTER button will close the NOTE NEW PASSWORD box.	
	Please do not forget your PASSWORD.	

OPTION Menu (continued)

Item	Description	
	 1.3 If you have forgotten your PASSWORD 1.3-1 Follow the procedure in 1.1-1 to display the ENTER PASSWORD box. 1.3-2 While the ENTER PASSWORD box is SECURITY PASSWORD 	
	 1.3-2 While the ENTER PASSWORD box is displayed, press and hold the RESET button for about 3 seconds or press and hold the INPUT and ► buttons on the projector for about 3 seconds. The 10-digit Inquiring Code will be displayed. 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 1.3-1. 	
	1.3-3 Contact your dealer with the 10-digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.	
SECURITY	 2. Using the MyScreen PASSWORD Function The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten. 2.1 Turning on the MyScreen PASSWORD Function 	
(continued)	2.1-1 Use the ▲/▼ buttons on the SECURITY menu to select MyScreen PASSWORD and press the ► button to display the MyScreen PASSWORD on/off menu.	
	2.2 Setting the PASSWORD2.2-1 Display the MyScreen PASSWORD on/off menu using the procedure in 2.1-1.	
	2.2-2 Use the ▲/▼ buttons on the MyScreen PASSWORD on/off menu to select TURN ON. The ENTER PASSWORD box (small) will be displayed.	
	2.2-3 Use the ▲/▼/◀/► buttons to enter the PASSWORD. Move the cursor to the right side of the ENTER PASSWORD box (small) and press the ► button to display the PASSWORD AGAIN box, enter the same PASSWORD again.	

OPTION Menu (continued)

Item	Description
	 2.2-4 Move the cursor to the right side of the PASSWORD AGAIN box and press the button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time. Pressing the ENTER button will return to MyScreen PASS WORD on/off menu. When a PASSWORD is set for MyScreen: The MyScreen registration function (and menu) will be unavailable. The MyScreen Lock function (and menu) will be unavailable. The START UP setting will be locked on MyScreen (and the menu will be unavailable). Turning the MyScreen PASSWORD off will allow normal operation of both functions. Please do not forget your MyScreen PASSWORD.
	2.3 Turning the PASSWORD off
	2.3-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu.
SECURITY (continued)	 2.3-2 Select TURN OFF to display the ENTER PASSWORD box (large). Enter the registered PASSWORD and the screen will return to the MyScreen on/off menu. If an incorrect PASSWORD is input the menu will close. If necessary repeat the process from 2.3-1.
	2.4 If you have forgotten your PASSWORD
	2.4-1 Follow the procedure in 2.1-1 to display the MyScreen PASSWORD on/off menu.
	2.4-2 Select TURN OFF to display the ENTER PASSWORD box (large). The 10-digit Inquiring Code will be displayed inside the box.
	2.4-3 Contact your dealer with the 10-digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.
	3. Using the PIN LOCK Function
	PIN LOCK is a function which prevents the projector from being used unless a registered Code is input.
	3.1 Registering the PIN Code
	3.1-1 Use the ▲/▼ buttons on the SECURITY menu to select PIN LOCK and press the ► button or the ENTER button to display the PIN LOCK on/off menu.

OPTION Menu (continued)

ltem	Description		
	3.1-2 Use the ▲/▼ buttons on the PIN LOCK on/off menu to select TURN ON and the PIN BOX will be displayed.		
SECURITY (continued)	 3.1-3 Input a 4 part PIN Code using the ▲, ▼, ▲, ►, COMPUTER and INPUT buttons. A 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 PIN BOX or the PIN Code again box are displayed the menu will close. If necessary repeat the process from 3.1-1. Afterwards, anytime the projector is restarted after AC power is turned off the PIN BOX will be displayed. Enter the registered PIN Code. If an incorrect PIN Code is input the PIN BOX will be displayed again. If an incorrect PIN Code is input 3 times the projector will turn off. Afterwards the projector will also turn off if there is no key input for about 5 minutes while the PIN 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. 		
	3.2 Turning Off the PIN LOCK Function		
	 3.2-1 Follow the procedure in 3.1-1 to display the PIN LOCK on/off menu. Use the ▲/▼ buttons to select TURN OFF and the PIN BOX will be displayed. Enter the registered PIN Code to turn the PIN LOCK function off. If an incorrect PASSWORD is entered the menu will close. 		
	3.3 If you have forgotten your PIN Code		
	 3.3-1 While the PIN BOX is displayed, press and hold the RESET button for 3 seconds or press and hold the INPUT and ► buttons for 3 seconds. The 10-digit Inquiring Code will be displayed. If it passes for about 5 minutes after the PIN BOX is displayed the projector will turn off. 		
	3.3-2 Contact your dealer with the 10-digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.		

OPTION Menu (continued)

Item	Description		
	4. Using the Transition Detector Function		
	 While the Transition Detector function is ON, when power switch is started to supply to the projector, it might react as below. Transition Detector alarm shown below might appear on screen, if the projector has been moved or re-installed. Transition Detector alarm might appear on screen, if the MIRROR setting has been changed. Keystone adjustment feature has been prohibited as long as the Transition Detector function is ON. 		
	4.1 Turning On the Transition Detector Function		
	 4.1-1 Use the ▲/▼ buttons on the SECURITY menu to select TRANSITION DETECTOR and press the ► or the ENTER button to display the TRANSITION DETECTOR on/off menu. Select TURN ON and the current angle and mirror setting will be recorded. This feature may not function properly if the projector is not in a stable position when TURN ON is selected. 		
SECURITY (continued)	4.1-2 If this function is set to TURN ON when the vertical angle of the projector or mirror setting at which the projector is turned on is different than the previously recorded the Transition Detector Alarm will be displayed and the projector will not display the input signal.		
	Set the Transition Detector off in the SECURITY menu to display the input signal. If the Transition Detector ALARM is displayed for about 5 minutes the lamp will turn off. This function will activate only when the projector is started after turning off the AC power.		
	4.2 Setting the Transition Detector PASSWORD		
	4.2-1 Use the ▲/▼ buttons on the SECURITY menu to select TRANSITION DETECTOR and press the ► or the ENTER button to display the TRANSITION DETECTOR on/off menu.		
	4.2-2 Use the ▲/▼ buttons on the TRANSITION DETECTOR on/off menu to select TURN ON. The ENTER PASSWORD box (small) will be displayed.		
	4.2-3 Use the ▲/▼/◀/► buttons to enter a PASSWORD. Move the cursor to the right side of the ENTER PASSWORD box (small) and press the ► button to display the PASSWORD AGAIN box, enter the same PASSWORD again.		

OPTION Menu (continued)

Item	Description		
	 4.2-4 Move the cursor to the right side of the PASSWORD AGAIN box and press the button to display the PASSWORD for about 20 seconds, please make note of the PASSWORD during this time. Pressing the ENTER button will return to the TRANSITION DETECTOR on/off menu. Please do not forget your Transition Detector PASSWORD. 		
	 4.3 Setting the Transition Detector off 4.3-1 Follow the procedure in 4.1-1 to display the TRANSITION DETECTOR on/off menu. 		
SECURITY (continued)	4.3-2 Select TURN OFF to display the ENTER PASSWORD box (large). Enter the registered PASSWORD and the screen will return to the TRANSITION DETECTOR on/off menu. If an incorrect PASSWORD is input the menu will close. If necessary repeat the process from 4.3-1.		
	4.4 If you have forgotten your PASSWORD		
	4.4-1 Follow the procedure in 4.1-1 to display the TRANSITION DETECTOR on/off menu.		
	4.4-2 Select TURN OFF to display the ENTER PASSWORD box (large). The 10-digit Inquiring Code will be displayed inside the box.		
	4.4-3 Contact your dealer with the 10-digit Inquiring Code. Your PASSWORD will be sent after your user registration information is confirmed.		

Maintenance

Lamp

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. Preparation of a new lamp and early replacement are recommended. To prepare a new lamp, contact your dealer and tell the lamp type number.

Type number : 78-6969-9917-2

Replacing the lamp

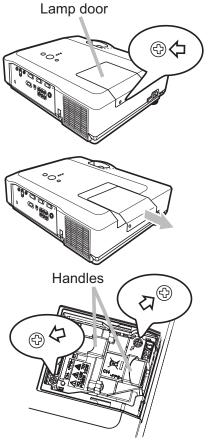
- Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.
- Prepare a new lamp.
- 2. Prepare a new lamp. If the projector is mounted on a ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

In case of replacement by yourself, follow the following procedure.

- 3. Loosen the screw (many door to the side to remove it. Loosen the screw (marked by arrow) of the lamp door
- 4 Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handles.
- Insert the new lamp, and retighten firmly the
- 5. Insert the new lamp, and ready 2 screws of the lamp that are loosened in the previous process to lock it in place.
- Slide the lamp door back in place and firmly fasten 6. Since the lamp door.
- Turn the projector on and reset the lamp time
- using the LAMP TIME item in the OPTION menu.
- (1) Press the MENU button to display a menu.
- (2) Point at the "Go to Advanced Menu ..." in the menu using the ∇/\blacktriangle button, then press the \triangleright button.
- (3) Point at the "OPTION" in the left column of the menu using the ∇/\blacktriangle button, then press the \triangleright button.
- (4) Point at the "LAMP TIME" using the ∇/A button, then press the \triangleright button. A dialog will appear.
- (5) Press the ▲ button to select "RESET" 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.



Lamp (continued)

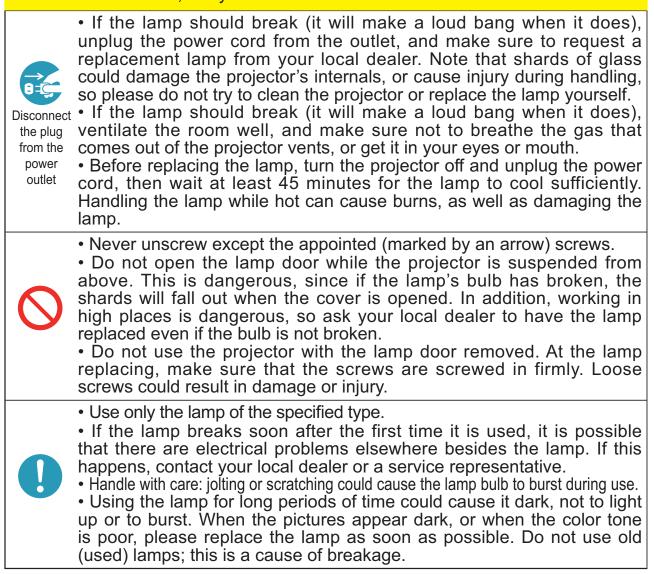
Lamp warning

\land 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 <u>www.lamprecycle.org</u>. (in the US)
- For product disposal, contact your local government agency or <u>www.eiae.org</u> (in the US) or <u>www.epsc.ca</u> (in Canada).
 For more information, call your dealer.



Air filter

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

Type number : 78-8118-9897-8

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

Cleaning the air filter

- 1 Turn the projector off, and unplug the power cord.
- Allow the projector to sufficiently cool down.
- 2. Use a vacuum cleaner on and around the filter cover.
- **3.** Pull the filter cover knobs while lifting it. The filter unit which consists of the filter' cover, air filter and filter frame will come off.
- 4. Use a vacuum cleaner for the filter vent of the projector and the filter frame side of the filter unit. If the air filter is damaged or too soiled, replace it according to the following procedure number 5 to 7. Otherwise, please jump to the procedure number 8.
- 5. Pull the filter frame' knob up while holding the filter cover. The filter frame will come off and the air filter will appear.
- 6 Replace the air filter with new one.
- 7 Put the filter frame back.
- 8 Put the filter unit back into the projector.
- 9. 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 ∇/A button, then press the \blacktriangleright button. A dialog will appear.
- (3) Press the **A** button to select "RESET" on the dialog. It performs resetting the filter time.

 \triangle **WARNING** \triangleright Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.

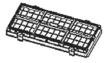
Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
 Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

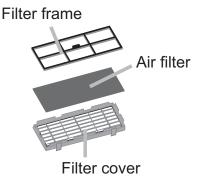
NOTE • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.



Filter cover knobs







Maintenance

Other care

Inside of the projector

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

Caring for the lens

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

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

Caring for the cabinet and remote control

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

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

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

▲WARNING ► Before caring, make sure the power cable is not plugged in, and then allow the projector to cool sufficiently. The care in a high temperature state of the projector could cause a burn and/or malfunction to the projector.
 ► Never try to care for the inside of the projector personally. Doing is so dangerous.

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

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

• Do not use aerosols or sprays.

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

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

Do not polish or wipe with hard objects.

Troubleshooting

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

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

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

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

Related messages

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

Message	Description
NO INPUT IS DETECTED ***	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE *** fH **kHz fV **Hz	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.
CHECK THE AIR FLOW	 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.
REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK. FILTER MAINTENANCE IS ESSENTIAL TO REMOVE WARNING MESSAGE, RESET FILTER TIMER. SEE MANUAL FURTHER INFO.	A note of precaution when cleaning the air filter. Please immediately turn the power off, and clean or change the air filter referring to the "Air Filter" section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer (153).

Troubleshooting

Regarding the indicator lamps

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

POWER	LAMP	TEMP	Description
indicator	indicator	indicator	
Lighting	Turned	Turned	The projector is in a standby state.
In Orange	off	off	Please refer to the section "Power on/off".
Blinking	Turned	Turned	The projector is warming up.
In <mark>Green</mark>	off	off	Please wait.
Lighting	Turned	Turned	The projector is in an on state.
In Green	off	off	Ordinary operations may be performed.
Blinking	Turned	Turned	The projector is cooling down.
In <mark>Orange</mark>	off	off	Please wait.
Blinking In <mark>Red</mark>	(discre- tionary)	(discre- tionary)	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.
<i>Blinking In <mark>Red</mark> or</i> Lighting In <mark>Red</mark>	Lighting In <mark>Red</mark>	Turned off	 The lamp does not light, and there is a possibility that interior portion has become heated. Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. Is there blockage of the air passage aperture? Is the air filter dirty? Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please change the lamp referring to the section "Lamp".
<i>Blinking In <mark>Red</mark> or</i> Lighting In <mark>Red</mark>	Blinking In <mark>Red</mark>	Turned off	The lamp door 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 door. 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.
Blinking In <mark>Red</mark> or Lighting In <mark>Red</mark>	Turned off	Blinking In <mark>Red</mark>	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.

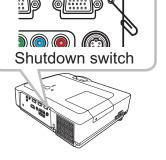
Regarding the indicator lamps (continued)

POWER indicator	LAMP indicator	TEMP indicator	Description
Blinking In <mark>Red</mark> or Lighting In <mark>Red</mark>	Turned off	Lighting In <mark>Red</mark>	 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 (142).
Lighting In Green	Simultaneous blinking in Red		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 "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 <mark>Green</mark>	Alternative blinking in Red		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 door, and then turn the power on again.

Shutting the projector down

Only when the projector can not be turned off by usual procedure (**11**5), please push the shutdown switch using a pin or similar, and disconnect the power plug from the power outlet. Before turning it on again, wait at least 10 minutes to make the projector cool down enough.



Resetting all settings

When it is hard to correct some wrong settings, the FACTORY RESET function of SERVICE item in OPTION menu (**144**) can reset all settings(except LANGUAGE, FILTER TIME, LAMP TIME, FILTER MESSAGE and etc.) to the factory default.

Phenomena that may be easy to be mistaken for machine defects

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

Phenomenon	Cases not involving a machine defect		
Power does not come on.	The electrical power cord is not plugged in. Correctly connect the power cord.	12	
	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.	12, 15	
	Either there is no lamp and/or lamp door, 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 door, and then turn the power on again.	51, 52	
	The signal cables are not correctly connected. Correctly connect the connection cables.	10	
Neither sounds nor pictures are outputted.	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.	16, 17	
Sound does not come out.	The signal cables are not correctly connected. Correctly connect the audio cables.	10	
	The MUTE function is working. Restore the sound pressing MUTE or VOLUME button on the remote control.	16	
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	16	
	The AUDIO/SPEAKER setting is not correct. Correctly set the AUDIO/SPEAKER in SETUP menu.	35	
No pictures are displayed.	The lens cover is attached. Remove the lens cover.	4, 15	
	The signal cables are not correctly connected. Correctly connect the connection cables.	10	

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

Phenomenon	Cases not involving a machine defect		
	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function.	25, 26	
No pictures are displayed. (continued)	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.	11	
	The BLANK screen is displayed. Press BLANK button on the remote control.	21	
Video screen display freezes.	The FREEZE function is working. Press 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.	25, 26, 31	
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	31	
	The brightness and/or contrast are adjusted to an extremely low level. Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	25, 26	
Pictures appear dark.	The WHISPER function is working. Select NORMAL for WHISPER item in the SETUP menu.	25, 35	
	The lamp is approaching the end of its product lifetime. Replace the lamp.	51, 52	
Pictures appear blurry.	Either the focus and/or horizontal phase settings are not properly adjusted. Adjust the focus using the focus ring, and/or H PHASE using the menu function.	18, 30	
	The lens is dirty or misty. Clean the lens referring to the section "Caring for the lens".	55	

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

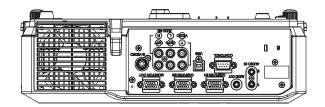
Specifications

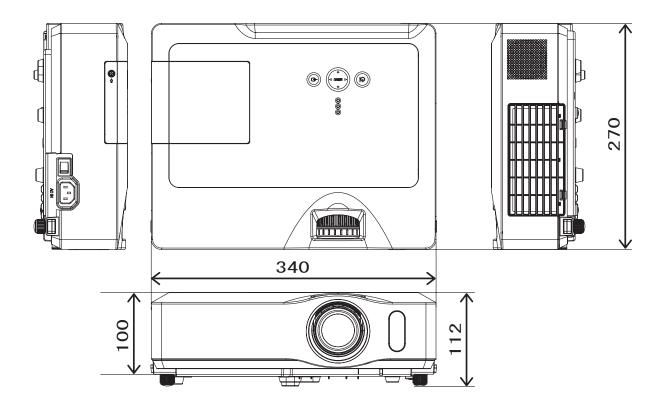
Specifications

Specification

	tem	Specification		
Product name		Liquid crystal projector		
Liquid Panel size		1.6 cm (0.63 type)		
Crystal	Drive system	TFT active matrix		
Panel	Pixels	786,432 pixels (1024 horizontal x 768 vertical)		
Lens		Zoom lens, F=1.6 ~ 1.8 f = 18.9~ 22.6 mm (approximately)		
Lamp		220W UHB		
Audio outp	ut	7 W		
Power sup	ply	AC 100-120V/3.5A, AC220-240V/1.5A		
Power con:	sumption	320W		
Temperatu	re range	5 ~ 35°C (Operating)		
Size		340 (W) x 100 (H) x 270 (D) mm * Not including protruding parts. Please refer to the following figure.		
Weight (ma	ass)	approx. 3.5 kg		
Ports		Computer input port COMPUTER IN1 D-sub 15 pin mini x1 COMPUTER IN2 D-sub 15 pin mini x1 Computer output port D-sub 15 pin mini x1 MONITOR OUT D-sub 15 pin mini x1 Video input port Nonitor Not the state of the s		
		USBUSB-B x1 CONTROL		

Specifications (continued)





[unit: mm]

Intended Use

Before operating this machine, please read this entire manual thoroughly. The 3M[™] Multimedia Projectors are designed, built, and tested for use indoors, using 3M lamps, 3M ceiling mount hardware, and nominal local voltages.

The use of other replacement lamps, outdoor operation, or different voltages has not been tested and could damage the projector peripheral equipment and/or create a potentially unsafe operating condition.

3M Multimedia projectors and Wall Display Systems are designed to operate in a normal office environment.

- 16° to 29°C (60° to 85° F)
- 10- 80 %RH (without condensation)
- 0-1828 m (0-6000 feet) above sea level

The ambient operating environment should be free of airborne smoke, grease, oil and other contaminates that can affect the operation or performance of the projector.

Use of this product in adverse conditions will void the product warranty.

Let us help you make the most of your next presentation. We offer everything from presentation supplies to tips for better meetings. And we're the only transparency manufacturer that offers a recycling program for your used transparencies. For late-breaking news, handy reference and free product samples, call us toll-free in the continental United States and Canada, 24 hours a day, or visit our Internet Website.





3M Austin Center Building A145-5N-01 6801 River Place Blvd. Austin, TX 78726-9000 **3M Canada** P.O. Box 5757 London, Ontario N6A 4T1 **3M Mexico, S.A. de C.V.** Apartado Postal 14-139 Mexico, D.F. 07000 Mexico **3M Europe** Boulevard de l'Oise 95006 Cerge Pontoise Cedex France

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