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QR53921

Printed in Japan

HITACHI

Liquid Crystal Projector

CP-S317/CP-X327

(CP-S317W/CP-X327W)

USER'S MANUAL Vol.1 Basic
Please read this user's manual thoroughly to ensure correct usage through understanding.

BEDIENUNGSANLEITUNG Teil 1 Grundlagen
Bitte lessen Sie diese Benutzerhandbuch zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION Vol.1 Fondements
Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

MANUALE D'ISTRUZIONI Vol.1 Informazioni di base
Vi preghiamo voler leggere attentamente il manuale d'istruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO Vol.1 Básico
Lea cuidadosamente este manual del usuario para poder utilizar correctamente el producto.

GEBRUIKSAANWIJZING Vol.1 Basis
Lees voor het qebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK Vol.1 Grunnleggende
Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

NSTRUÇÕES DO PROPRIETÁRIO Vol.1 Básico
Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do utilizador.
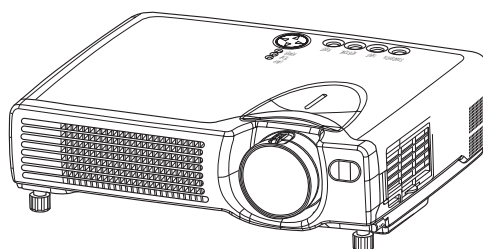
ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

NEDERLANDS

NORSK

PORTGÊS

LCD Projector CP-S317/CP-X327

USER'S MANUAL   Vol.1 (Basic)

Thank you for purchasing this projector.

ENGLISH

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, transmission or use of this document or contents is not permitted without express written authority.

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CONTENTS

PROJECTOR FEATURES

This liquid crystal projector is used to project various computer signals as well as NTSC / PAL / SECAM video signals onto a screen. Little space is required for installation and large images can easily be realized.

●*Ultra High Brightness*
Crisp, ultra-bright presentations is achieved by using a UHB (ultra high brightness) lamp and a highly efficient optical system

●*Partial Magnification Function*
Interesting parts of images can be magnified for closer viewing

●*Keystone Distortion Correction*
Quick correction of distorted images electrically

●*Whisper Mode Equipped*
Special mode is available for reducing projector noise to achieve quieter operation

PREPARATIONS

Your projector should come with the items shown below. Check to make sure that all the items are included. Contact your dealer if anything is missing.

NOTE • Keep the original packing material for future reshipment.
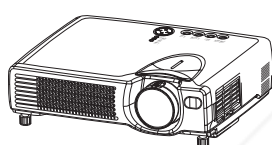
Projector (with Lens Cap)

Power cord (US Type)

Power cord (UK Type)

Power cord (Europe Type)

User's Manuals (Vol.1/Vol.2) Safety Instructions

RGB cable

Video/Audio cable

USB mouse cable

Two AA batteries (for the remote control)

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Soft carrying case

Remote control

Discount-Merchant.com (800) 281-8860

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

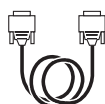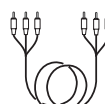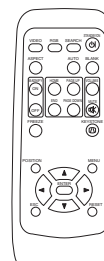⚠ **WARNING** Precautions to observe in regards to the power cord: Please use extra caution when connecting the projector's power cord as incorrect or faulty connections may result in FIRE AND/OR ELECTRICAL SHOCK. Please adhere to the following safety guidelines to insure safe operation of the projector:
• Only plug the power cord into outlets rated for use with the power cord's specified voltage range.
• Only use the power cord that came with the projector.
• NEVER ATTEMPT TO DEFEAT THE GROUND CONNECTION OF THE THREE-PRONGED PLUG!
• Make sure that you firmly connect the power cord to the projector and wall outlet.

ENGLISH

1 Connect your devices to the projector 8 ~ 12
Connect your computer, VCR and/or other devices you will be using to the projector.
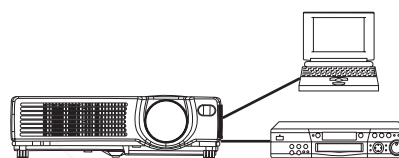
2 Insert the batteries into the remote control 13
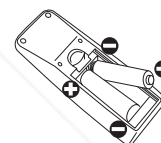
3 Connect the power cord

(1) Connect the connector of the electrical power cord to the AC inlet of the main unit.

(2) Firmly plug the power cord's plug into the outlet

Power outlet

(1)   (2)

AC inlet   Power cord

3
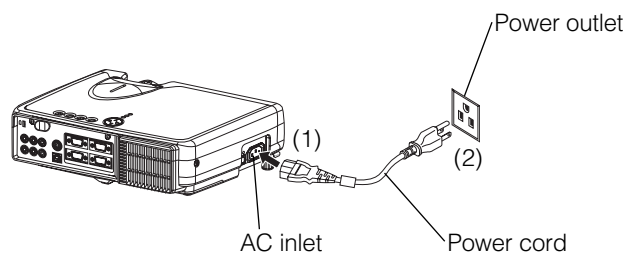
PART NAMES

THE PROJECTOR

Indicates the corresponding reference page

MENU button **23**

24 RESET button

POWER indicator **14**

20 KEYSTONE button

TEMP indicator **27**

15 INPUT button

LAMP indicator **26**

14 STANDBY/ON button

15 Zoom ring

15 Focus ring

27 Air filter

6 Elevator button

Remote sensor **13**

Lens cap **14**

11 S-VIDEO IN port

10 AUDIO IN R and L ports

10 RGB IN 1 and 2 ports

11 VIDEO IN port

3 AC power inlet

6 Elevator button

14 Power switch

10 CONTROL port

12 RGB OUT port

10 USB port

11 COMPONENT VIDEO port

4

THE REMOTE CONTROL

ENGLISH

22 SEARCH button

RGB button 15

14 STANDBY/ON button

VIDEO button 15

19 AUTO button

ASPECT button 22

22 BLANK button

MAGNIFY buttons 21

17 VOLUME button

17 MUTE button

FREEZE button 21

20 KEYSTONE button

KEYBOARD buttons 24

POSITION button 18

23 MENU button

◄ , ► , ▲ , ▼ 23
Cursor buttons

ESC button 23

24 RESET button

23 ENTER button

5

SETTING UP THE PROJECTOR

⚠️ **CAUTION** • Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.
• If you press the elevator buttons without holding the projector, the projector might crash down, overturn, smash your fingers and possibly result in malfunction. To prevent damaging the projector and injuring yourself, ALWAYS HOLD THE PROJECTOR whenever using the elevator buttons to adjust the elevator feet.

Adjusting the Projector's Elevator Feet

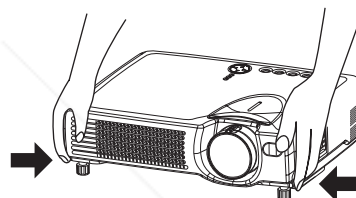You can use the elevator feet to make adjustments if the surface on which you need to set the projector is uneven or if you otherwise need to adjust the angle of projection. The adjustment range of the elevator feet is 0 to 9 degrees.

1 Press and hold in the elevator buttons

2 Raise or lower the projector to the desired height and then release the elevator buttons
When you release the elevator buttons, the elevator feet will lock into position.
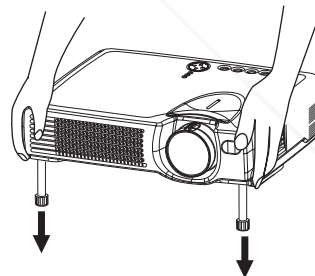
3 As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand

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Adjusting the Screen Size and Projection Distance

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

The values shown in the table are calculated for a full size screen
(CP-S317: 800x600 pixels/CP-X327: 1024x768 pixels).
a:Distance from the projector to the screen (±10%)
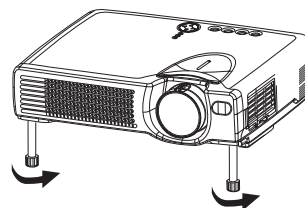b:Distance from the lens center to the bottom of the screen (±10%)
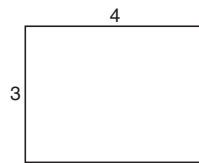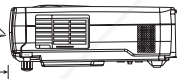c:Distance from the lens center to the top of the screen (±10%)

ENGLISH

The screen   **Top view**   If 4:3 aspect ratio

4
3

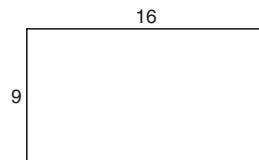**Side view**   Lens center

Screen Size [inch (m)]	a [inch (m)]		b [inch (cm)]	c [inch (cm)]
	Min.	Max.		
30 (0.8)	35 (0.9)	42 (1.1)	1 (2)	17 (44)
40 (1.0)	47 (1.2)	56 (1.4)	1 (3)	23 (58)
50 (1.3)	59 (1.5)	71 (1.8)	1 (4)	29 (73)
60 (1.5)	71 (1.8)	85 (2.2)	2 (4)	34 (87)
70 (1.8)	83 (2.1)	100 (2.5)	2 (5)	40 (102)
80 (2.0)	95 (2.4)	114 (2.9)	2 (6)	46 (116)
90 (2.3)	107 (2.7)	129 (3.3)	3 (7)	51 (131)
100 (2.5)	119 (3.0)	143 (3.6)	3 (7)	57 (145)
120 (3.0)	143 (3.6)	172 (4.4)	3 (9)	69 (174)
150 (3.8)	180 (4.6)	216 (5.5)	4 (11)	86 (218)
200 (5.0)	240 (6.1)	288 (7.3)	6 (15)	114 (290)
250 (6.3)	300 (7.6)	361 (9.2)	7 (18)	143 (363)
300 (7.5)	360 (9.2)	433 (11.0)	9 (22)	171 (435)

The screen   **Top view**   If 16:9 aspect ratio

16
9

Side view   Lens center

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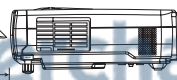
Screen Size [inch (m)]	a [inch (m)]		b [inch (cm)]	c [inch (cm)]
	Min.	Max.		
30 (0.8)	38 (1.0)	46 (1.2)	2 (4)	16 (41)
40 (1.0)	51 (1.3)	61 (1.6)	2 (5)	22 (55)
50 (1.3)	64 (1.6)	77 (2.0)	3 (6)	27 (69)
60 (1.5)	77 (2.0)	93 (2.4)	3 (8)	32 (82)
70 (1.8)	90 (2.3)	109 (2.8)	4 (9)	38 (96)
80 (2.0)	104 (2.6)	125 (3.2)	4 (10)	43 (110)
90 (2.3)	117 (3.0)	140 (3.6)	5 (12)	49 (124)
100 (2.5)	130 (3.3)	156 (4.0)	5 (13)	54 (137)
120 (3.0)	156 (4.0)	188 (4.8)	6 (15)	65 (165)
150 (3.8)	196 (5.0)	235 (6.0)	8 (19)	81 (206)
200 (5.0)	261 (6.6)	314 (8.0)	10 (26)	108 (275)
250 (6.3)	327 (8.3)	393 (10.0)	13 (32)	135 (343)
300 (7.5)	393 (10.0)	472 (12.0)	15 (39)	162 (412)

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CONNECTING YOUR DEVICES

Devices You Can Connect to the Projector
(Refer to this section for planning your device
configuration to use for your presentation.)
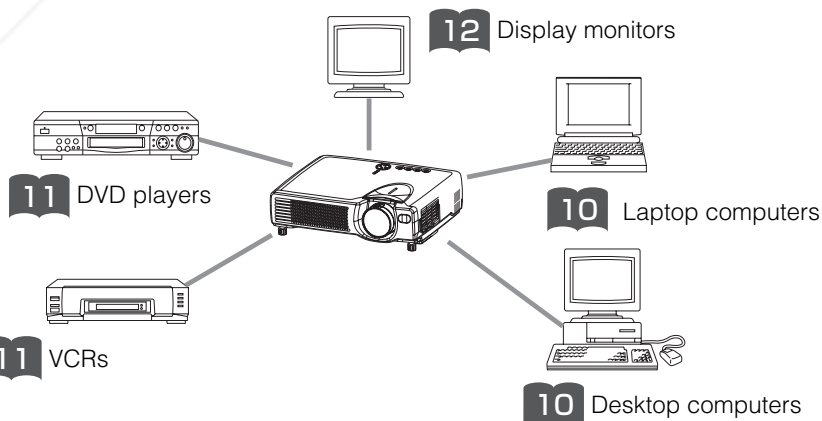
⚠ **CAUTION** • Incorrect connecting could result in fire or electrical shock. Please read this manual and the separate "SAFETY INSTRUCTIONS".

ATTENTION Precautions to observe when connecting other devices to the projector
• Whenever attempting to connect other devices to the projector, please thoroughly read the manual of each device to be connected.
• TURN OFF ALL DEVICES prior to connecting them to the projector. Attempting to connect a live device to the projector may generate extremely loud noises or other abnormalities that may result in malfunction and/or damage to the device and/or projector. Refer to the "TECHNICAL" of the USER'S MANUAL (Vol.2) for the pin assignment of connectors and RS-232C communication data.
• Make sure that you connect devices to the correct port. Incorrect connection may result in malfunction and/or damage to the device and/or projector.
• A component cable and some other cables have to be used with core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.
• Secure the screws on the connectors and tighten.

Indicates the corresponding reference page

12 Display monitors

11 DVD players

11 VCRs

10 Laptop computers

10 Desktop computers

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Ports and Cables

Refer to the table below to find out which projector port and cable to use for connecting a given device. Use this table for determining which cables to prepare.

| Function	Projector Port	Connection Cables
RGB input	RGB IN 1	Accessory RGB cable or optional RGB cable with D-sub 15-pin shrink jack and inch thread screws
	RGB IN 2	
RGB output	RGB OUT	
USB mouse control	USB	Accessory USB cable
PS/2 mouse control	CONTROL	Optional PS/2 mouse cable
ADB mouse control		Optional ADB mouse cable
Serial mouse control		Optional serial mouse cable
RS-232C communication		Optional RS-232C cable
S-video input	S-VIDEO IN	Optional S-video cable with mini DIN 4-pin jack
Video input	VIDEO IN	Accessory audio/video cable
Component video input	COMPONENT VIDEO Y	Optional component video cable
	COMPONENT VIDEO C_B/P_B	
	COMPONENT VIDEO C_R/P_R	
Audio input	AUDIO IN L	Accessory audio/video cable or optional audio cable with RCA jack
	AUDIO IN R	

NOTE *About Plug-and-Play Capability*

• This projector is compatible with VESA DDC 1/2B. Plug-and-Play can be achieved by connecting this projector to computers that are VESA DDC (display data channel) compatible. Please take advantage of this function by connecting the accessory RGB cable to the RGB IN 1 port (DDC 1/2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
• Plug-and-Play is a system composed of the computer, its operating system and peripheral equipment (i.e. display devices).
• Please use the standard drivers as this projector is a Plug-and-Play monitor.
• Plug-and-Play may not function properly with some type of computers. Use the RGB IN 2 port if Plug-and-Play does not function correctly.

CONNECTING YOUR DEVICES (continued)
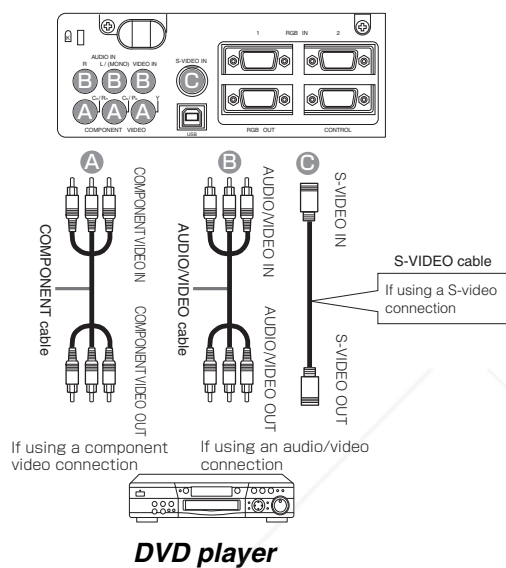
Connecting to a Computer

ATTENTION Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop 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 computer.

Laptop computer

Desktop computer

USB cable

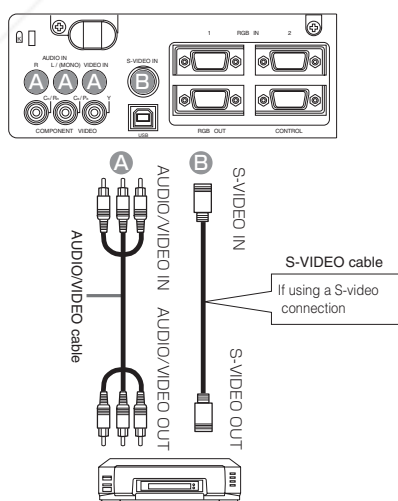If connecting to a USB port equipped computer

---
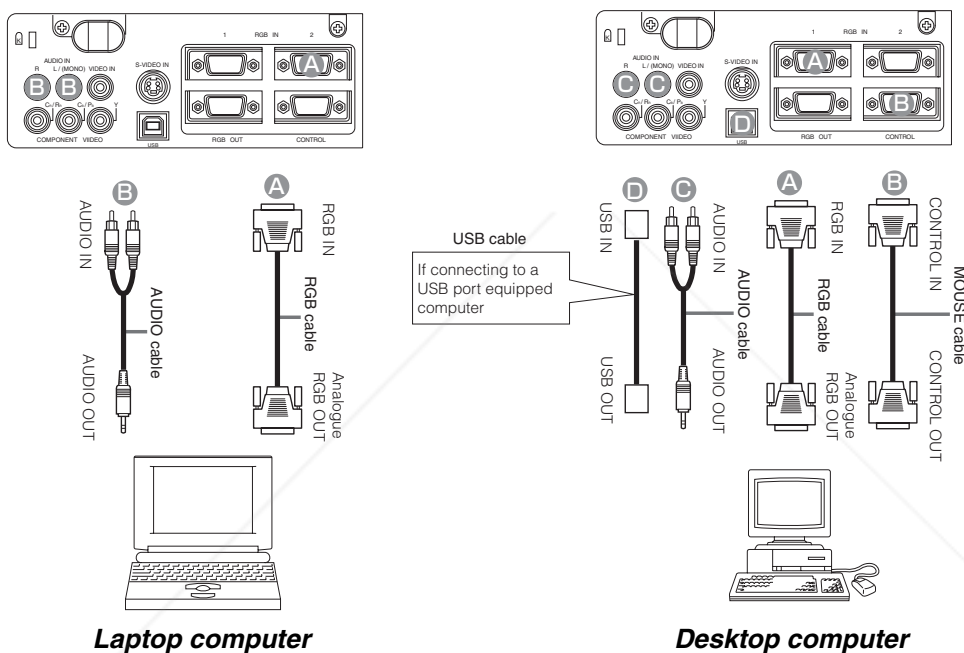
NOTE
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- For some RGB input modes, the optional Mac adapter is necessary.
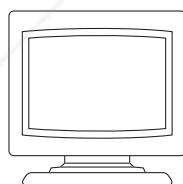
10

Connecting to a DVD Player

COMPONENT cable

COMPONENT VIDEO IN

COMPONENT VIDEO OUT

AUDIO/VIDEO cable

AUDIO/VIDEO IN

AUDIO/VIDEO OUT

S-VIDEO IN

S-VIDEO OUT

S-VIDEO cable
If using a S-video connection

If using a component video connection

If using an audio/video connection

DVD player

Connecting to a VCR

AUDIO/VIDEO cable

AUDIO/VIDEO IN

AUDIO/VIDEO OUT

S-VIDEO IN

S-VIDEO OUT

S-VIDEO cable
If using a S-video connection

VCR

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CONNECTING YOUR DEVICES (continued)

Connecting to a Display Monitor

AUDIO IN
R   L / (MONO)   VIDEO IN

S-VIDEO IN

RGB IN
1   2

C_R/P_R   C_B/P_B   Y

USB

RGB OUT

CONTROL

COMPONENT VIDEO

A

Ⓐ

RGB OUT

RGB cable

RGB IN

Display monitor

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12
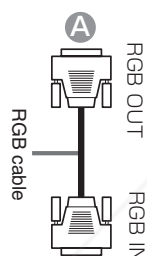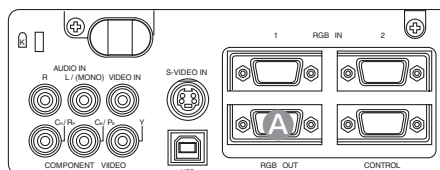
USING THE REMOTE CONTROL

Putting batteries into the remote control unit

⚠ **CAUTION** Precautions to observe in regards to the batteries
Always handle the batteries with care and use them only as directed. Improper use may result in
battery cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
• Keep the battery away from children and pets.
• Be sure to use only the batteries specified for use with the remote control. Do not mix new batteries with used ones.
• When inserting batteries, verify that the plus and minus terminals are aligned correctly (as indicated in the remote control).
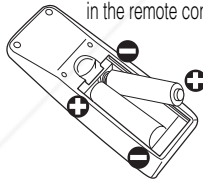• When you dispose the battery, you should obey the law in the relative area or country.

1 **Remove the battery cover**
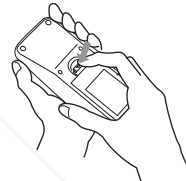Slide back and remove the battery cover in the direction of the arrow.
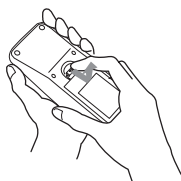
2 **Insert the batteries**
Align and insert the two AA batteries (that came with the projector) according to their plus and minus terminals (as indicated in the remote control).

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

Operating the remote control

• The remote control works with both the projector's front and rear remote sensors.
• The range of the remote sensor on the front and back is 3 meters with a 60-degree range (30 degrees to the left and right of the remote sensor).
• Since the remote control uses infrared light to send signals to the projector (Class 1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.

30 degrees   30 degrees   30 degrees   30 degrees
approximately 3 meters   approximately 3 meters
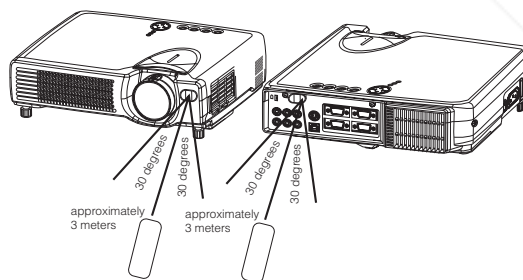
ATTENTION **Precautions to observe when using the remote control**
• Do not drop or otherwise expose the remote control to physical impact.
• Do not get the remote control wet or place it on wet objects. Doing so may result in malfunction.
• Remove the batteries from the remote control and store them in a safe place if you won't be using the remote control for an extended period.
• Replace the batteries whenever the remote control starts to malfunction.
• When strong light, such as direct sunlight or light from an extremely close range (such as from an inverter fluorescent lamp), hits the projector's remote sensor, the remote control may cease to function. Adjust the direction of the projector to keep light from hitting the projector's remote sensor.
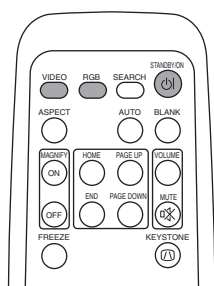
13

TURNING ON THE POWER

Precautions

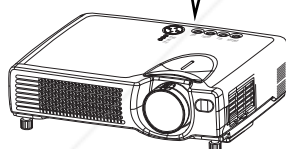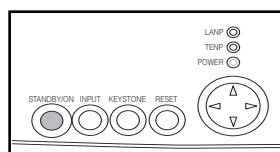Connect all devices to be used to the projector prior to turning on the power. [8] ～ [12]

⚠ **WARNING** When the power is ON, a strong light is emitted. Do not look into the lens.

Control panel

1 **Make sure that the power cord is firmly and correctly connected to the projector and outlet**

[3]

2 **Turn on the projector's power**

Set the power switch to [I] (ON). The projector will go to STANDBY mode and the POWER indicator will light to solid orange.

power switch

POWER indicator

3 **Press the STANDBY/ON button (control panel or remote control)**

• The projector begins warming up and the POWER indicator blinks green.

• The POWER indicator stops blinking and lights to solid green once the projector's power is completely on.
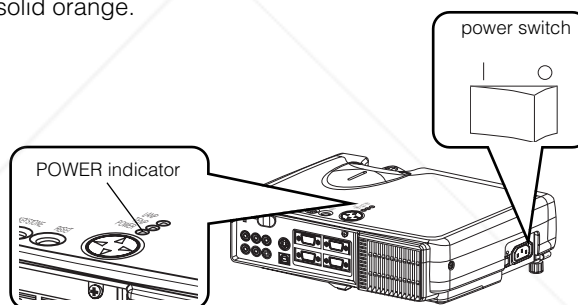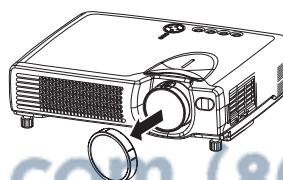
STANDBY/ON

NOTE *Turn the power on/off in right order.*

• Power on the projector before the computer or video tape recorder.

• Power off the projector after the computer or video tape recorder.

4 **Remove the lens cap**

The picture is projected.

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Selecting an Input Signal

5 | **Using the remote control**

Using the projector's control panel

If selecting RGB input
Press the RGB button
Press this button to toggle between the devices connected to RGB IN 1 and 2. As illustrated below, each time you press the RGB button, the projector switches between RGB IN 1 and 2. Select the signal you wish to project.

RGB   RGB IN 1 ⟷ RGB IN 2
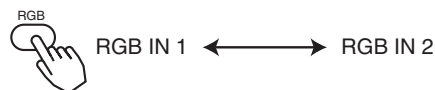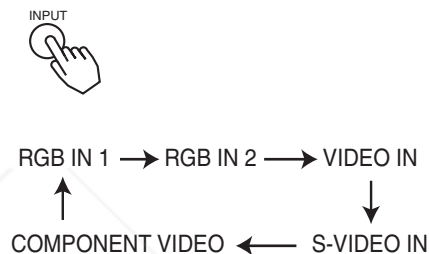
If selecting video input
Press the VIDEO button
Press this button to toggle between the devices connected to VIDEO IN, S-VIDEO IN and COMPONENT VIDEO. As illustrated below, each time you press the VIDEO button, the projector switches between VIDEO IN, S-VIDEO IN and COMPONENT VIDEO. Select the signal you wish to project.

VIDEO   VIDEO IN → S-VIDEO IN
                      ↓
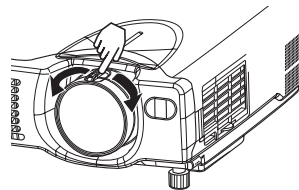   COMPONENT VIDEO

Press the INPUT button
As illustrated below, each time you press the INPUT button, the projector switches between its input signal ports. Select the signal you wish to project.

INPUT

RGB IN 1 → RGB IN 2 → VIDEO IN
                          ↓
COMPONENT VIDEO ← S-VIDEO IN

6 **Use the zoom ring to adjust the screen size**

7 **Use the focus ring to focus the picture**

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15
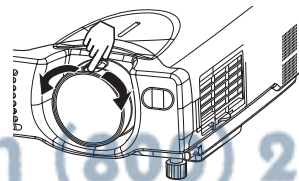
TURNING OFF THE POWER
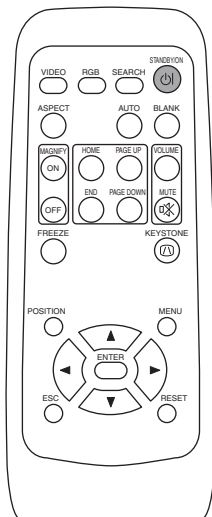
1 Press the STANDBY/ON button (control panel or remote control)

The message "Power off?" will appear on the screen for approximately 5 seconds.

STANDBY/ON

2 Press the STANDBY/ON button again (control panel or remote control)

Press the STANDBY/ON button again while the "Power off?" message is visible. The projector lamp goes off and starts cooling down. The POWER indicator blinks orange while the lamp cools down. (Pressing the STANDBY/ON button while the POWER indicator is blinking orange has no effect.)

The system goes into the STANDBY mode after cooling down and the POWER indicator stops blinking orange and then lights to solid orange.

STANDBY/ON

Control panel
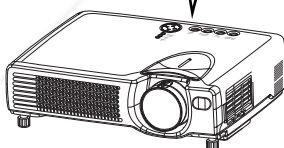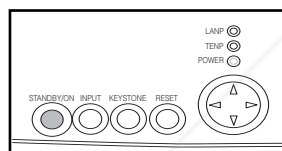
3 Check that the POWER indicator stops blinking and lights to solid orange.
Switch the power switch to [O] (OFF).

power switch

POWER indicator

4 Confirm that the POWER indicator has gone off and then attach the lens cap.

When the projector has completed powering down, the POWER indicator will go off.
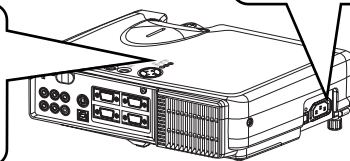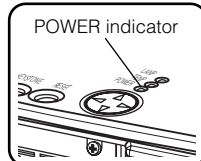
NOTE

• Except in emergencies, follow the above-mentioned procedure for turning power off.

16
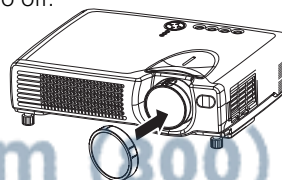
ADJUSTING THE VOLUME
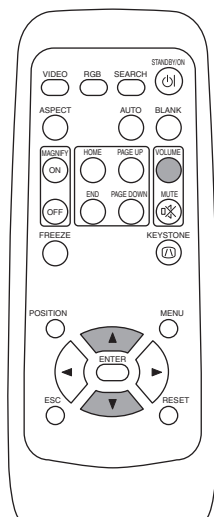
1 **Press the VOLUME button**
As illustrated on the right, a dialog will
appear on the screen to aid you in adjusting
the volume.

VOLUME

⊲ VOLUME

16
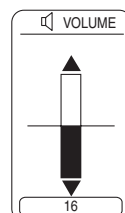
ENGLISH

2 **Press the ▲, ▼ buttons to adjust
the volume**
Press the VOLUME button again to close the dialog and
complete this operation. (Even if you don't do anything, the
dialog will automatically disappear after a few seconds.)

▲ Press this to increase the volume

▼ Press this to decrease the volume

⊲ VOLUME

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TEMPORARILY MUTING THE SOUND

1 **Press the MUTE button**
As illustrated on the right, a dialog will appear on the
screen indicating that you have muted the sound. Press
the VOLUME button to close the dialog. (Even if you don't
do anything, the dialog will automatically disappear after
a few seconds.)
Press the MUTE button again to restore the sound.

MUTE

⊠ VOLUME

16

17
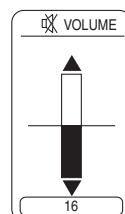
ADJUSTING THE POSITION
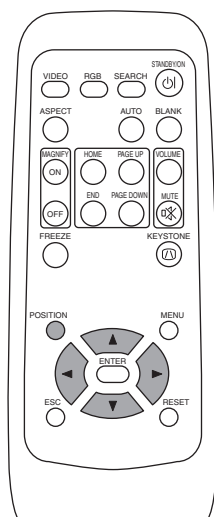
1 **Press the POSITION button**
As illustrated on the right, a dialog will appear on the screen
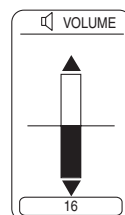to aid you in adjusting the position.

POSITION

POSITION ◆◆

2 **Use the ◀, ▶, ▲, ▼ buttons to adjust
the position**
When you want to initialize the position, press the RESET
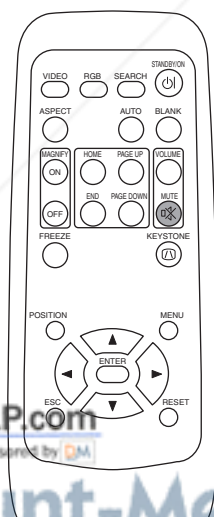button during adjustment.
Press the POSITION button again to close the dialog and
complete this operation. (Even if you don't do anything, the
dialog will automatically disappear after a few seconds.)
This function is only available for RGB IN 1/2 input.

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES
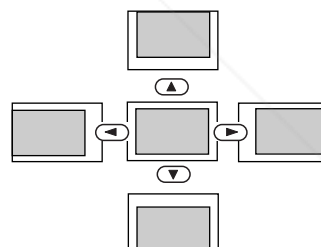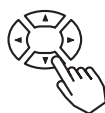
USING THE AUTOMATIC ADJUSTMENT FEATURE
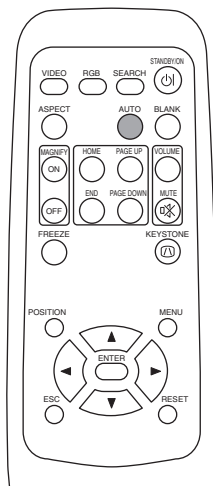
1 **Press the AUTO button**

AUTO

ENGLISH

Automatic Adjustment for RGB Input

Horizontal position (H. POSIT), vertical position (V. POSIT), clock phase (H. PHASE) and horizontal size (H. SIZE) are automatically adjusted.
Make sure that the application window is set to its maximum size prior to attempting to use this feature. Dark pictures may still be incorrectly adjusted. Use a bright screen when adjusting.

Automatic Adjustment for Video Input

The signal type best suited for the respective input signal is selected automatically.
This feature is available only if VIDEO is set to AUTO in the INPUT menu.

NOTE

The automatic adjustment operation requires approximately 10 seconds. Also, please note that it may not function correctly with some input signals.

CORRECTING KEYSTONE DISTORTIONS
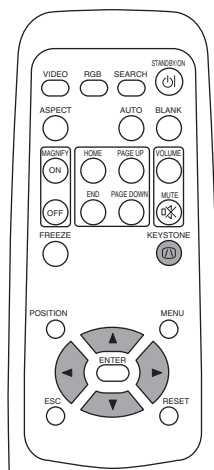
1 **Press the KEYSTONE button**
As illustrated on the right, a dialog will appear on the screen to aid you in correcting the distortion.

KEYSTONE

KEYSTONE

16
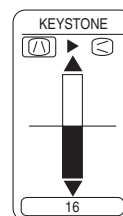
2 **Use the ◄,► buttons to select the direction of distortion to correct (⌒/⌒)**

3 **Use the ▲,▼ buttons to correct the distortion**
Press the KEYSTONE button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.)

NOTE

• This function may not be work well with some types of input signals.
• The adjustable range for correcting keystone distortions will vary with the type of input signal.

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USING THE MAGNIFY FEATURE
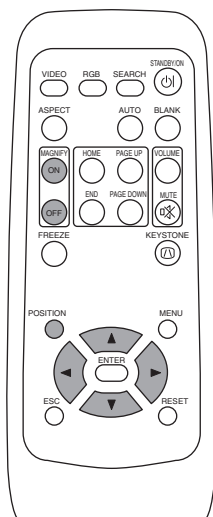
1 Press the MAGNIFY (ON) button
The projector enters MAGNIFY mode.

MAGNIFY
ON

ENGLISH

2 Press the POSITION button, then use the ◄,►,▲ ,▼ buttons to select the area to enlarge and then press the POSITION button again to confirm your selection

POSITION   POSITION

3 Press the ▲,▼ buttons to zoom in and out of the selected area.
Press the MAGNIFY (OFF) button to exit MAGNIFY mode and restore the screen to normal. (The projector will also automatically exit MAGNIFY mode if there is a change in the input signal's state.)

NOTE

The projector will automatically exit from MAGNIFY mode if either the INPUT SELECT, AUTO, ASPECT or VIDEO feature is used, or, if there is a change in the input signal's state.

FREEZING THE SCREEN
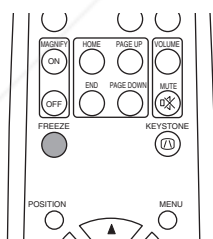
1 Press the FREEZE button
The [II] icon appears and the screen will freeze at the current image. Press the FREEZE button again and the [▶] appears as the projector exits FREEZE mode.

FREEZE

NOTE

• The projector will automatically exit from FREEZE mode if either the POSITION, VOLUME, MUTE, AUTO, BLANK ON/OFF or MENU ON/OFF feature is used, or, if there is a change in the input signal's state.
• If the projector continues projecting the same image for a long time (i.e. you forget to exit FREEZE mode), the image might possibly remain as an afterimage. Do not leave the projector in FREEZE mode for too long.
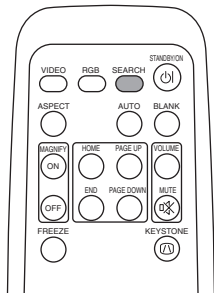
SIGNAL SEARCHING

1 **Press the SEARCH button**
When you press the SEARCH button, the projector begins searching for input signals. If it detects an input signal, the search will cease and the projector will project the detected signal. If the projector is unable to find an input signal at any of its ports, it will return to the state it was in prior to the search.

SEARCH

RGB IN 1 → RGB IN 2 → VIDEO IN

COMPONENT VIDEO ← S-VIDEO IN
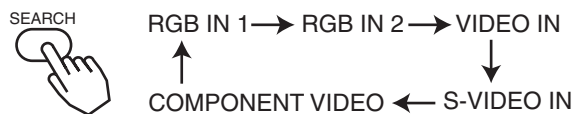
SELECTING THE ASPECT RATIO
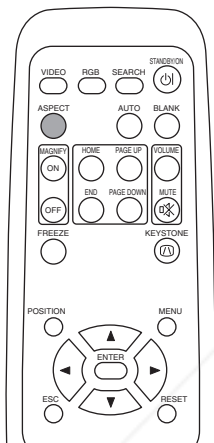
1 **Press the ASPECT button**

ASPECT

RGB IN 1, RGB IN 2, COMPONENT VIDEO
(HDTV signals : 1125i (1035i/1080i), 750p)
4:3 ←→ 16:9
VIDEO IN, S-VIDEO IN, COMPONENT VIDEO
(Non-HDTV signals : 525i, 525p,625i)

4:3 → 16:9 → SMALL

TEMPORARILY BLANKING THE SCREEN
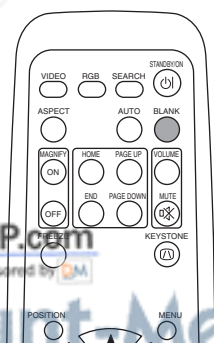
1 **Press the BLANK button**
The input signal screen is shut off, and a blank screen appears. You can set the blank screen using the menu (from the SCREEN menu, select BLANK). Press the BLANK button again to remove the blank screen, and return to the input signal screen.

BLANK

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USING THE MENU FUNCTIONS
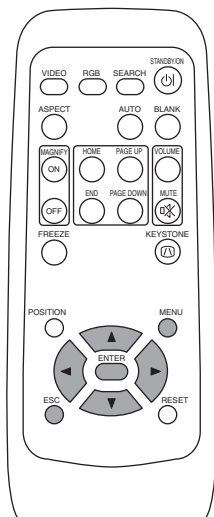
1 Press the MENU button
The menu display appears on the screen. The projector has the following menus: MAIN, PICTURE 1, PICTURE 2, INPUT, SCREEN, and OPTION. Select a menu using the ▲/▼ buttons. The current settings of the items that can be manipulated via the selected menu appear.

MENU

2 Select a menu using the ▲/▼ buttons, then press the ► or ENTER button.
The display of the selected menu appears.
[ex. Adjusting SHARPNESS]
Use the ▲/▼ buttons to select PICTURE 1, then press the ► or ENTER button.
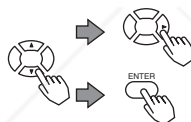
ENTER

MENU		
MAIN	COLOR BAL R	−1
PICTURE-1	COLOR BAL B	+1
PICTURE-2	SHARPNESS	−1
INPUT	COLOR	+1
SCREEN	TINT	−1
OPTION		

: SELECT

3 Select an item using the ▲/▼ buttons, then press the ► or ENTER button.
The operation display of the selected item appears. To adjust a numerical value, press the ► or ENTER button again to switch to the single menu (small display showing only the operation display area).
[ex. Adjusting SHARPNESS]
Use the ▲/▼ buttons to select SHARPNESS, then press the ► or ENTER button.

ENTER
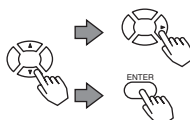
MENU	
MAIN	COLOR BAL R
PICTURE-1	COLOR BAL B
PICTURE-2	SHARPNESS
INPUT	COLOR
SCREEN	TINT
OPTION	

0

: SELECT

4 Press the ▲/▼ buttons to adjust the level.
Press the MENU button to hide the menu and finish your operation. Alternatively, press the ◄ or ESC button to return to the previous display.
[ex. Adjusting SHARPNESS]
Use the ▲/▼ buttons to adjust the SHARPNESS.

23

OPERATING THE PC SCREEN

You can use the remote control as a simplified mouse or keyboard.

⚠ **CAUTION** Caution: Mistaken use of the mouse/keyboard control could damage your equipment.

- Only connect to a PC.
- Before connecting, read the manuals of the device you will connect.
- Do not unplug the connector cables while the computer is operating.
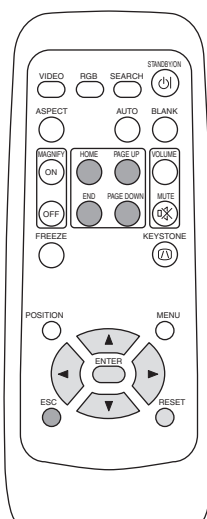
PS/2, ADB, Serial Mouse Control

1. Turn off the projector and PC power, and connect the projector's CONTROL terminal to the computer via the mouse cable.
2. If a USB cable is connected, disconnect it. If a USB cable is connected, the USB control function is given priority, and mouse control from the CONTROL terminal will not function.
3. Turn on the projector power, then the computer.
   The functions in the table below can be controlled. If you have difficulty with control, restart the computer (either from the software or by pressing the restart button).

| Available Functions	Remote Control Operation
Move Pointer	Use ◀ ▶ ▲ ▼ buttons
Left click with mouse	Press ENTER button
Right click with mouse	Press RESET button

USB Mouse/Keyboard Control

1. Connect the projector's USB terminal to the computer using a USB cable.
   The functions in the table below can be controlled.

Available Functions	Remote Control Operation
Move Pointer	Use ◀ ▶ ▲ ▼ buttons
Left click with mouse	Press ENTER button
Right click with mouse	Press RESET button
Press keyboard's HOME key	Press HOME button
Press keyboard's END key	Press END button
Press keyboard's PAGE UP key	Press PAGE UP button
Press keyboard's PAGE DOWN key	Press PAGE DOWN button
Press keyboard's ESC key	Press ESC button

NOTES

- It may not be possible to control notebook PCs, and other computers with built-in pointing devices (e.g. track balls), using this remote control. In this case, before connecting go into BIOS (system setup) and select external mouse, and disable the pointing devices. In addition, the mouse may not function if the computer does not have the needed utility program. See your computer's hardware manual for details.
- The USB control can be used with Windows 95 OSR 2.1 or higher. It may not be possible to use the remote control, depending on the computer's configurations and mouse drivers.
- The USB control can only be used for the functions listed above. 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 not available while the lamp is warming up (the POWER indicator flashes green), while adjusting the volume and display, correcting for trapezoidal distortion, zooming in on the screen, using the BLANK function, or displaying the menu screen.

24

THE LAMP

⚠ ⚡ 🔥 💥

HIGH VOLTAGE
HIGH TEMPERATURE
HIGH PRESSURE

Before replacing the lamp, check the serial number of the replacement lamp bulb (sold separately: DT00511 for CP-S317/DT00521 for CP-X327), then contact your local dealer. Before replacing the lamp, turn off the power, and unplug the power cord, then wait at least 45 minutes, in order to ensure that the lamp is properly cooled. Removing the lamp bulb while it is still hot could cause burns, or cause the lamp bulb to burst.

⚠ **WARNING** The LCD projector uses a glass lamp bulb. It is a mercury lamp with high internal pressure. High-pressure mercury lamps can break with a loud bang, or burn out, if jolted or scratched, or through wear over time. 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.
• Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
• If the replace lamp indicator (see "Related Messages" (Vol.2 7) and "Regarding the indicator Lamps" (Vol.2 8)) comes on, replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.
• If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer.
• If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
• Obey local ordinances when disposing of used lamps. In most cases, it is possible to dispose of used bulbs in the same manner as used glass bottles, but in some cases, bulbs are sorted separately.
• Do not use the projector with the lamp cover removed.

THE LAMP (continued)

Replacing the lamp

All projector lamps will wear out eventually. If used for long periods of time, the image could become darkened, and the color contrast could be impacted as well. We recommend that you replace your lamps early. If the LAMP indicator turns red, or a message prompts you to replace the lamp when you power up the projector, the lamp needs to be replaced. (See "Related Messages" (Vol.2 [7]) and "Regarding the Indicator Lamps" (Vol.2 [8]) for details.)

1 Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes, and prepare a new lamp (sold separately: DT00511 for CP-S317/DT00521 for CP-X327)

2 After making sure that the projector has cooled adequately, slowly flip over the projector, so that the bottom is facing up

3 Unscrew the 2 screws, and remove the lamp cover
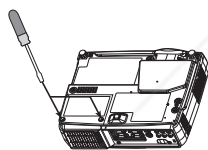
4 Unscrew the 1 screw, and slowly pull out the lamp by the handle
• Be careful not to touch the inside of the lamp case.
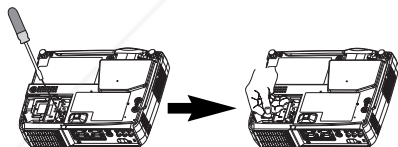
5 Insert the new lamp, and tighten the 1 screw firmly to lock it in place
• Also steadily push the opposite side of the screwed side of the lamp into the unit.
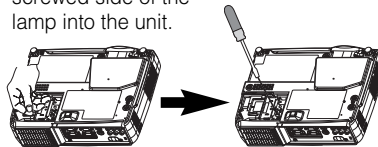
6 Replace the lamp cover, and tighten the 2 screws firmly to lock it in place
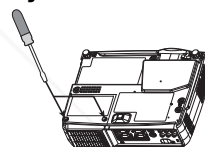
7 Slowly turn the projector so that the top is facing up

8 Turn on the projector power, and using the menu, reset the lamp timer
• To reset the lamp timer, from the OPTION menu, select LAMP TIME.

ATTENTION • Make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
• Do not use with lamp cover removed.
• Do not reset the lamp timer without replacing the lamp. Reset the lamp timer always when replacing the lamp. The message functions will not operate properly if the lamp timer is not reset correctly.
• When the lamp has been replaced after the message of "CHANGE THE LAMP ...THE POWER WILL TURN OFF AFTER 0 hr." is displayed, or the LAMP indicator is red, complete the following operation within 10 minutes of switching power ON.

NOTE • The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power OFF, wait approximately 20 minutes, and switch power ON again. If the LAMP indicator is still red, replace the lamp.

THE AIR FILTER

Caring for the air filter

The air filter should be cleaned about every 100 hours. If the LAMP indicator and TEMP indicator blink red simultaneously, or a message prompts you to clean the air filter when you turn on the unit, the filter needs to be cleaned. (See "Related Messages" (Vol.2 **7**) and "Regarding the Indicator Lamps" (Vol.2 **8**) for details.)

ENGLISH

1 Turn off the projector, and unplug the power cord

2 Apply a vacuum cleaner to the top of the air filter cover to clean the air filter
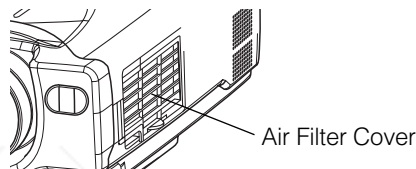
Air Filter Cover

3 Turn on the projector, and use the menu to reset the filter timer
• To reset the air filter timer, from the OPTION menu, select FILTER TIME.

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THE AIR FILTER (continued)

Replacing the air filter

If the soiling will not come off the air filter, or it becomes damaged, then it needs to be replaced. Please contact your local dealer, after confirming the model of your separately sold replacement air filter. (See "Optional Parts" on Vol.2 [10] .)

1 Turn off the projector, and unplug the power cord. Prepare a new air filter (one specified for your projector)

2 Remove the air filter cover and air filter

3 Insert the new filter, and replace the filter cover

4 Turn on the projector power, and using the menu, reset the filter timer
• To reset the lamp timer, from the OPTION menu, select FILTER TIME.

ATTENTION • Make sure to turn off the power and unplug the power cord before caring for the unit. Please carefully read "Safety Instructions", in order to care for your projector correctly.
• Do not use with air filter cover removed.
• If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The power is automatically turned off in order to prevent the unit from overheating internally.

OTHER CARE

Caring for the inside of the projector :
In order to ensure the safe use of your projector, please have it cleaned and inspected by
your local dealer about once every 2 years. Never try to care for the inside of the unit
yourself. Doing so is dangerous.

Caring for the lens :
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 transmitter :
Wipe lightly with gauze or a soft cloth. If soiling is severe, dip a soft cloth in water or a
neutral cleanser diluted in water, and wipe lightly after wringing well. Then, wipe lightly
with a soft, dry cloth.

ATTENTION • Make sure to turn off the power and unplug the power cord before caring for
the unit. Please carefully read "Safety Instructions" in this manual, in order to care for your projector
correctly.
• Do not use cleaners or chemicals other than those listed above, including benzene and paint
  thinner.
• Do not use aerosols or sprays.
• Do not polish or wipe with hard objects.

ENGLISH

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REGULATORY NOTICES

FCC Statement Warning

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

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

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met.

The cables may have to be used with the core set to the projector side. Use the cables which are included with the projector or specified.

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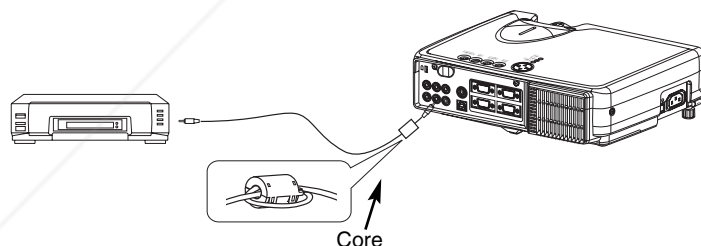
CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the Customers in CANADA

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

Pour les utilisateurs au Canada

AVIS: Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

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QR53891

Printed in Japan

HITACHI

Liquid Crystal Projector

CP-S317/CP-X327

(CP-S317W/CP-X327W)

USER'S MANUAL Vol.2 Extended
Please read this user's manual thoroughly to ensure correct usage through understanding.

BEDIENUNGSANLEITUNG Teil 2 Fortsetzung
Bitte lessen Sie diese Benutzerhandbuch zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION Vol.2 Développé
Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

MANUALE D'ISTRUZIONI Vol.2 Ampliato
Vi preghiamo voler leggere attentamente il manuale d'istruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO Vol.2 Ampliado
Lea cuidadosamente este manual del usuario para poder utilizar correctamente el producto.

GEBRUIKSAANWIJZING Vol.2 Uitgebreid
Lees voor het qebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK Vol.2 Utvidet
Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

NSTRUÇÕES DO PROPRIETÁRIO Vol.2 Continuação
Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do utilizador.
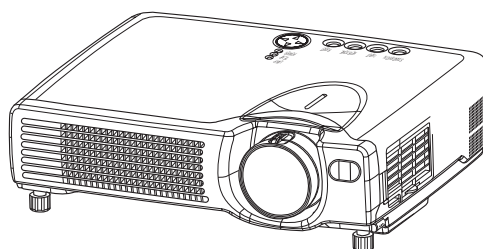
ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL
NEDERLANDS
NORSK
PORTGÊS
TECHNICAL

LCD Projector CP-S317/CP-X327

USER'S MANUAL   Vol.2 (Extended)

Thank you for purchasing this projector.

⚠ **WARNING** **• Please read the accompanying manual "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" thoroughly to ensure correct usage through understanding. After reading, store this instruction manual in a safe place for future reference.**

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, transmission or use of this document or contents is not permitted without express written authority.

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• Windows is a registered trademark of Microsoft Corporation.
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CONTENTS

For "TECHNICAL" see the end of this manual.

MULTIFUNCTIONAL SETTINGS

This device has 6 separate menus: MAIN, PICTURE 1, PICTURE 2, INPUT, SCREEN, OPTION. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

Menu screen display : Press the "MENU" button.

Menu selection : Choose a menu name using the ▲ /▼ button, and press the ► button or the ENTER button.

Item selection : Choose an item using the ▲ /▼ button, and press the ► button or the ENTER button.

Return menu to last previous screen: Press the ◄ button or the ESC button.

Execution of settings and/or adjustments: Operate by using the ▲ /▼ button. (For further details, read the explanation for each separate menu.)
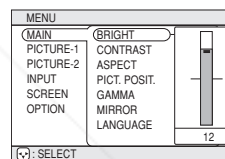
Initialization of settings and/or adjustments: During operation, press the RESET button. (Note that items whose functions are performed simultaneously with the operation of clock phase, language selection, automatic adjustment, etc., cannot be initialized.)

End menu operations: Press the MENU button, or do not perform any operation for several seconds.

MAIN Menu

With the MAIN menu, the seven items shown in the Table below can be performed.
Perform each operation in accordance with the instructions in the Table.

Example : MAIN Menu (BRIGHT)

MAIN Menu

Item	Description
BRIGHT	**Adjust Brightness:** Light ▲ ⇔ ▼ Dark
CONTRAST	**Adjust Contrast:** Strong ▲ ⇔ ▼ Weak
ASPECT	**Select Aspect Ratio:** At RGB Input or Hi-Vision 1125i(1035i/1080i)/750p of COMPONENT VIDEO Input: 4:3 ▼ ⇔ ▲ 16:9 At VIDEO Input, S-VIDEO Input or 525i/525p/625i of COMPONENT VIDEO Input: 4:3 ▼ ⇔ ▲ 16:9 ▼ ⇔ ▲ SMALL • The SMALL picture may not be displayed correctly with certain input signals.
PICT.POSIT.	**Select Picture Position (for 16:9/SMALL Picture):** TOP ▼ ⇔ ▲ CENTER ▼ ⇔ ▲ BOTTOM
GAMMA	**Select Gamma Mode:** NORMAL ▼ ⇔ ▲ CINEMA ▼ ⇔ ▲ DYNAMIC
MIRROR	**Select Mirror Status:** NORMAL ▼ ⇔ ▲ H:INVERT ▼ ⇔ ▲ V:INVERT ▼ ⇔ ▲ H&V:INVERT
LANGUAGE	**Select Menu Language:** ENGLISH ▼ ⇔ ▲ FRANÇAIS ▼ ⇔ ▲ DEUTSCH ▼ ⇔ ▲ ESPAÑOL ▼ ⇔ ▲ ITALIANO ▼ ⇔ ▲ NORSK ▼ ⇔ ▲ NEDERLANDS ▼ ⇔ ▲ 日本語 ▼ ⇔ ▼ POTUGUÊS ▼ ⇔ ▲ 中文 ▼ ⇔ ▲ 한글

2

PICTURE 1 Menu

With the PICTURE 1 menu, the five items shown in the Table below can be performed.
Perform each operation in accordance with the instructions in the Table.
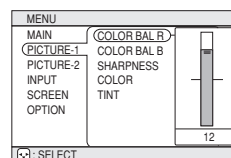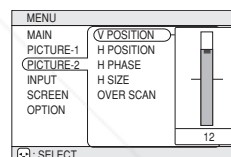

Example : PICTURE1 Menu
(COLOR BAL R)

ENGLISH

PICTURE1 Menu

Item	Description
COLOR BAL R	**Adjust Red Color Balance:** Dark ▲ ⇔ ▼ Light
COLOR BAL B	**Adjust Blue Color Balance:** Dark ▲ ⇔ ▼ Light
SHARPNESS	**Adjust Sharpness (for VIDEO/S-VIDEO):** Clear ▲ ⇔ ▼ Soft
COLOR	**Adjust COLOR (for VIDEO/S-VIDEO/COMPONENT VIDEO):** Dark ▲ ⇔ ▼ Light
TINT	**Adjust Tint (for VIDEO/S-VIDEO):** Green ▲ ⇔ ▼ Red

PICTURE 2 Menu

With the PICTURE 2 menu, the five items shown in the Table below can be performed.
Perform each operation in accordance with the instructions in the Table.

Example : PICTURE2 Menu
(V POSITION)

PICTURE2 Menu

Item	Description
V POSITION	**Adjust Vertical Position (for RGB):** Up ▲ ⇔ ▼ Down
H POSITION	**Adjust Horizontal Position (for RGB):** Left ▲ ⇔ ▼ Right
H PHASE	**Adjust Horizontal Phase (for RGB/COMPONENT VIDEO):** Right ▲ ⇔ ▼ Left • Adjust to eliminate flicker.
H SIZE	**Adjust Horizontal Size (for RGB):** Large ▲ ⇔ ▼ Small • If the horizontal size adjustment is excessive, the image may not be displayed correctly. In such a case, initialize H SIZE with the RESET button.
OVER SCAN	**Select Over-scan Ratio (for VIDEO/S-VIDEO/COMPONENT VIDEO):** LARGE ▼ ⇔ ▲ MIDDLE ▼ ⇔ ▲ SMALL • It is recommended to select SMALL to avoid flicker at the lower part of the picture.

3

MULTIFUNCTIONAL SETTINGS (continued)

INPUT Menu

With the INPUT menu, the four items shown in the Table below can be performed. With inputting of RGB IN 1 and RGB IN 2 signals, the horizontal and vertical frequencies of the signals will be displayed on the initial screen of the INPUT menu.

Perform each operation in accordance with the instructions in the Table.
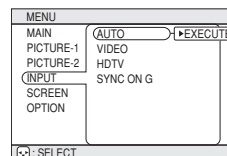
```
MENU
MAIN        (AUTO )    ▶EXECUTE
PICTURE-1    VIDEO
PICTURE-2    HDTV
(INPUT )     SYNC ON G
SCREEN
OPTION

⊙ : SELECT
```
Example : INPUT Menu (AUTO)

INPUT Menu

Item	Description
AUTO	**Auto Adjust (for RGB):** Automatically adjusts H POSITION, V POSITION, H PHASE, and H SIZE. Use this function with the maximum window size. **Auto Adjust (for VIDEO/S-VIDEO):** Automatically selects the proper VIDEO mode for the current input signal. This function is active only when the AUTO mode is selected for the item VIDEO. Refer to the description for the item VIDEO below. • This function may not be available with a PAL60 signal and certain other signals. • The AUTO mode operation requires approximately 10 seconds. • For COMPONENT VIDEO, the signal type is identified automatically even if this function is inactive. For a HDTV signal, refer to the item HDTV below.
VIDEO	**Select Mode of Signal Type (for VIDEO/S-VIDEO):** AUTO ▼ ⇔ ▲ NTSC ▼ ⇔ ▲ PAL ▼ ⇔ ▲ SECAM ▼ ⇔ ▲ NTSC4.43 ▼ ⇔ ▲ M-PAL ▼ ⇔ ▲ N-PAL Selecting AUTO mode activates and performs the AUTO function for VIDEO/S-VIDEO. It automatically selects the proper mode from among those above. Use this function if the image becomes unstable with VIDEO/S-VIDEO. (e.g. The image becomes irregular, or lacks color.) • AUTO mode may not function correctly with a PAL60 signal and certain other signals. • The AUTO mode operation requires approximately 10 seconds. • For COMPONENT VIDEO, the signal type is identified automatically even if this function is inactive. For a HDTV signal, refer to the item HDTV below.
HDTV	**Select HDTV Signal Mode:** 1080i ▼ ⇔ ▲ 1035i • If the selected HDTV mode is incompatible with the input signal, the picture may be distorted.
SYNC ON G	**On/Off SYNC ON G Mode:** TURN ON ▼ ⇔ ▲ TURN OFF Selecting TURN ON turns on the SYNC ON G mode. The SYNC ON G mode allows reception of SYNC on G. • In the SYNC ON G mode, the picture may be distorted with certain input signals. In such a case, remove the signal connector so that no signal is received and turn SYNC ON G off, and then reconnect the signal.

SCREEN Menu

With the SCREEN menu, the five items shown in the Table below can be performed.
Please perform each operation in accordance with the instructions in the Table.
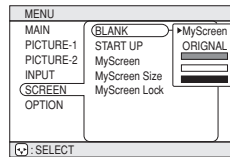
```
MENU
MAIN        BLANK         ►MyScreen
PICTURE-1   START UP       ORIGNAL
PICTURE-2   MyScreen
INPUT       MyScreen Size
SCREEN      MyScreen Lock
OPTION

⊡ : SELECT
```
Example : SCREEN Menu
(BLANK)

ENGLISH

SCREEN Menu

| Item	Description
BLANK	**Selection of BLANK Screen:** MyScreen ▼ ⇔ ▲ ORIGINAL ▼ ⇔ ▲ ▢ ▼ ⇔ ▲ ▢ ▼ ⇔ ▲ ▮ The BLANK Screen may be voluntarily selected. The BLANK Screen is displayed when the screen has been erased (i.e., made to vanish) by manipulating the BLANK button (please refer to the "Temporarily Blanking the Screen" section of the separate booklet, Vol. 1 (Basic)). **MyScreen:** Using the MyScreen category (see this Table, below), one can register a desired screen (or screens). At the time of factory shipment, this is set as a non-patterned (plain) blue color screen. **ORIGINAL:** Existing standard screens. Please make confirmation using the actual screen(s). **Option screens:** Various colored non-patterned (plain) screens displayed within the Menus. • The MyScreen and the ORIGINAL Screen will each change to a non-patterned (plain) black color screen several minutes after being displayed.
START UP	**Selection of START UP Screen:** MyScreen ▼ ⇔ ▲ ORIGINAL ▼ ⇔ ▲ TURN OFF The START UP Screen may be voluntarily selected. The START UP Screen is displayed when no signal has been inputted, or when spec signals are being inputted. **MyScreen:** Using the MyScreen category (see this Table, below), one can register a desired screen (or screens). At the time of factory shipment, this is set as a non-patterned (plain) blue color screen. **ORIGINAL:** Existing standard screens. Please make confirmation using the actual screen(s). **TURN OFF:** A non-patterned (plain) blue color screen. • The MyScreen and the ORIGINAL Screen will each change to the BLANK Screen several minutes after being displayed.
MyScreen	**Registration of MyScreen:** When this item is executed, the MyScreen Menu for registration of MyScreen for the BLANK Screen and the START UP Screen is displayed. When operations are performed in accordance with this Menu, one can "cut" and register desired screens from among the received images within the display. 1. After the "Do you start capturing this picture?" message has been displayed, pressing the ESC (or RESET) button interrupts execution of the MyScreen. When the ENTER button is pressed, the picture becomes static (no longer moves), and a frame for picture cutting, as well as the message that follows below, appear. Please press the button when the screen you want to register is currently being displayed. 2. When the "Move the capture area as you want." message has been displayed, pressing the ESC (or RESET) button will eliminate the static state of the picture, and operations can be performed again from operation 1. The frame can be moved using the ◄ ,► ,▲ ,▼ buttons. After designating the screen you want to register, pressing the ENTER button will initiate screen registration. The registration process takes approximately 1 minute to complete. 3. When the registration has been completed, the screen of the registered MyScreen, plus the message, "MyScreen registration is finished," will be displayed for several seconds, after which the operation is terminated.
MyScreen Size	**Selection of MyScreen display size:** x1 ▼ ⇔ ▲ FULL
MyScreen Lock	**Invalidation of MyScreen registration function:** TURN ON ▼ ⇔ ▲ TURN OFF When TURN ON is selected, the MyScreen category (see this Table, above) cannot be executed; in this way, one can prohibit rewrites ("writeovers") of the MyScreen.

5

MULTIFUNCTIONAL SETTINGS (continued)

OPTION Menu

With the OPTION menu, the five items shown in the Table below can be performed.
Please perform each operation in accordance with the instructions in the Table.
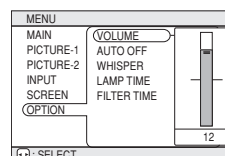
```
┌─────────────────────────────────────┐
│ MENU                                 │
│ MAIN       ┌VOLUME ─┐                │
│ PICTURE-1  │AUTO OFF│  ┌─┐           │
│ PICTURE-2  │WHISPER │  │ │           │
│ INPUT      │LAMP TIME  │ │           │
│ SCREEN     │FILTER TIME│ │           │
│ OPTION─                 │ │           │
│                         └─┘    12    │
│ : SELECT                             │
└─────────────────────────────────────┘
```
Example : OPTION Menu
(VOLUME)

OPTION Menu

Item	Description
VOLUME	**Adjust Volume:** High ⬆ ⇔ ⬇ Low
AUTO OFF	**Adjust AUTO OFF Time:** Long (MAX. 99 min.) ⬇ ⇔ ⬆ Short (Min. 1 min.) ⬇ ⇔ ⬆ (DISABLE: 0 min.) The system automatically enters the standby mode if no signal is received within the set time. This function is inactive when DISABLE (0 min.) is selected.
WHISPER	**Select WHISPER Mode:** NORMAL ⬇ ⇔ ⬆ WHISPER When WHISPER is selected the WHISPER mode is activated. In the WHISPER mode, acoustic noise and screen brightness are reduced.
LAMP TIME	**Refer to LAMP TIME:** When set, this function displays the total time the projector lamp has been used since new. **Reset LAMP TIME [Use this function only when the lamp has been replaced!]:** Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the lamp with a new lamp, select RESET on the menu with the ⬆ button. • Do not reset the lamp time unless you have replaced the lamp. And, always reset the lamp time when replacing the lamp. The message functions will not operate properly if the lamp time is not reset correctly. • Before replacing the lamp, carefully read the descriptions headed "THE LAMP".
FILTER TIME	**Refer to FILTER TIME:** This function displays the total time the air-filter has been used since new. **Reset FILTER TIME [Use this function only when the filter is cleaned or replaced!]:** Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the filter, select RESET on the menu with the ⬆ button. DEFAULT ⬆ ⇔ ⬇ CANCEL • Do not reset the filter time unless you have cleaned or replaced the filter. And, always reset the filter time when cleaning or replacing the filter. The message functions will not operate properly if the filter time is not reset correctly. • Before cleaning or replacing the filter, carefully read the descriptions headed "THE AIR FILTER".

WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED

ENGLISH

Related Messages

When the unit's power is ON, messages such as those shown below may be displayed. When any such message is displayed on the screen, please respond as described below.

Message	Description
CHANGE THE LAMP **AFTER REPLACING LAMP, RESET THE LAMP TIMER.** (Note 1)	Lamp usage time is approaching 2,000 hours. (Note 2) Preparation of a new lamp, and an early lamp change, is recommended. After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP **AFTER REPLACING LAMP, RESET THE LAMP TIMER.** **THE POWER WILL TURN OFF AFTER ✳✳ hr.** (Note 1)	Lamp usage time is approaching 2,000 hours. A lamp change within ✳✳ hours is recommended. (Note 2) When lamp usage reaches 2,000 hours, the power will automatically be turned OFF. Please change the lamp by referring to "THE LAMP" in Vol.1 (Basic). After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP **AFTER REPLACING LAMP, RESET THE LAMP TIMER.** **THE POWER WILL TURN OFF AFTER 0 hr.**	As lamp use has reached 2,000 hours, the power will soon be automatically turned OFF. (Note 2) Please immediately turn the power OFF, and follow the instructions in the "THE LAMP" section of the separate booklet, Vol.1 (Basic). After you have changed the lamp, please be sure to reset the lamp timer.
CLEAN THE AIR FILTER **AFTER CLEANING AIR FILTER, RESET THE FILTER TIMER.**	A note of precaution when cleaning the air filter. After cleaning the filter, operate FILTER TIME of the OPTION Menu, and perform reset of the filter timer.
NO INPUT IS DETECTED **ON ✳✳✳**	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ON ✳✳✳ fH ✳✳✳✳kHz fV ✳✳✳✳Hz	The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit. Please confirm the specs for this unit or the signal source specs.
CHECK THE AIR FLOW	The internal portion temperature is rising. Please turn the power OFF, and allow the unit to cool down for approximately 20 minutes. After having confirmed the following items, then please resent the power to ON. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C?

NOTES

Note 1: Although this message will be automatically disappeared after around 3 minutes, it will be reappeared every time the power is turned ON.

Note 2: Lamps have a finite product life. Lamps are characterized by the fact that, after long hours of usage, a lamp will no longer light up, or the lamp will break or burst, etc. This unit is equipped with an automatic shut-down function, such that the power will automatically be turned OFF when lamp usage time has reached 2,000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes: a lamp may thus fail to light even prior to the functioning of the automatic shut-down function of this unit.

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Regarding the Indicator Lamps

Lighting and flashing of the POWER indicator, the LAMP indicator, and the
TEMP indicator have the meanings as described in the Table below.
Please respond in accordance with the instructions within the Table.

POWER indicator	LAMP indicator	TEMP indicator	Description
The orange lamp is lighted	Turned OFF (Not lighted)	Turned OFF (Not lighted)	The STANDBY mode is set
Flashing of the green lamp	Turned OFF	Turned OFF	The unit is warming up. Please wait.
The green lamp is lighted	Turned OFF	Turned OFF	The unit is in an ON state. Ordinary operations may be performed.
Flashing of the orange lamp	Turned OFF	Turned OFF	The unit is cooling down. Please wait.
Blinking of the red lamp	-	-	The unit is cooling down. Please wait. A certain error has been detected. Wait until the POWER indicator lamp has finished flashing, and then perform the proper response measure using the item descriptions below as reference.
The red lamp is lighted, or blinks	The red lamp is lighted	Turned OFF	The lamp does not light. There is a possibility that the interior portion has become heated. Turn the power OFF and wait approximately 20 minutes. After the main unit has cooled down, please confirm whether or not there is blockage of the air passage aperture, whether or not the filter is dirty, and/or whether or not the peripheral temperature exceeds 35°C, etc. After performing any needed maintenance, turn the power ON again; if the same display is displayed, then please change the lamp.
The red lamp is lighted, or blinks	Blinking of the red lamp	Turned OFF	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed (attached). Turn the power OFF and wait approximately 45 minutes. After the main unit has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover. After performing any needed maintenance, turn the power ON again; if the same display is displayed, then please contact a sales store or a service company.
The red lamp is lighted, or blinks	Turned OFF	Blinking of the red lamp	The cooling fan is not operating. Turn the power OFF and wait approximately 20 minutes. After the main unit has cooled down, please make confirmation that no foreign matter has become caught in the fan, etc. After performing any needed maintenance, turn the power ON again; if the same display is displayed, then please contact a sales store or a service company.
The red lamp is lighted, or blinks	Turned OFF	The red lamp is lighted	There is a possibility that the interior portion has become heated. Turn the power OFF and wait approximately 20 minutes. After the main unit has cooled down, please confirm whether or not there is blockage of the air passage aperture, whether or not the filter is dirty, and/or whether or not the peripheral temperature exceeds 35°C, etc. After performing any needed maintenance, turn the power ON again; if the same display is displayed, then please contact a sales store or a service company.
The green lamp is lighted	Alternative blinking with the red lamp		There is a possibility that the interior portion has become overcooled. Please use the unit within the usage temperature parameters (0°C to 35°C). After performing any needed maintenance, turn the power ON again; if the same display is displayed, then please contact a sales store or a service company.
The green lamp is lighted	Simultaneous blinking with the red lamp		This is a notification that it is time to clean the filter. After cleaning the filter, operate the FILTER TIME portion of the OPTION Menu, and perform reset of the FILTER TIME.

NOTE

When the interior portion has become overheated, for safety purposes, the power source is automatically turned OFF, and the indicator lamps may also be turned OFF. Press the " ◯ " (power OFF) side of the main power switch, and wait for approximately 20 minutes. Please then use the unit only after having first confirmed that the unit has sufficiently cooled down.

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WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED (continued)

Phenomena That May Easily Be Mistaken for Machine Defects

Before requesting repair, check in accordance with the following chart.
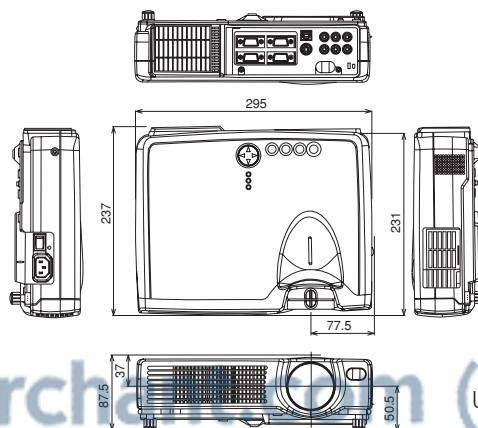If the situation cannot be corrected, then contact your dealer.

Phenomenon	Cases not involving a machine defect	Items to be confirmed	Reference Page(s)
Power does not come ON	The main power source is not ON.	Turn on the main power.	Vol.1-3, 14
	The electrical power cord is not plugged in.	Correctly connect the power cord.	
	The main power source has been interrupted during operation, such as by a power outage (blackout), etc.	Be sure to press the "O" (power OFF) side of the main power switch, and leave this OFF for approximately 20 minutes. After the unit has sufficiently cooled down, turn ON the power source.	Vol.1-14
No sound or pictures are outputted	The input changeover settings are mismatched.	Select the input signal, and correct the settings.	Vol.1-15
	No signal is being inputted.	Correctly connect the connection cord.	Vol.1-10, 11
Pictures are displayed, but no sounds are heard	The electrical wiring to this unit is not correctly connected.	Correctly connect the connection cord.	Vol.1-10, 11
	The volume setting has been set at (or adjusted to) an extremely low level.	Adjust the VOLUME setting to a higher level.	Vol.1-17
	The MUTE mode is the current setting.	Press the MUTE button to release (change) the MUTE mode setting.	Vol.1-17
Sounds are heard, but no pictures are displayed	The electrical wiring to this unit is not correctly connected.	Correctly connect the connection cord.	Vol.1-10, 11
	The brightness setting has been set at (or adjusted to) an extremely low level.	Adjust the BRIGHT setting to a brighter level.	Vol.2-2
	The lens cap has not been removed.	Remove the lens cap.	Vol.1-14
Colors have a faded-out appearance Color tone is poor	Color depth setting or color tone setting	Perform picture adjustments by changing the COLOR BAL R, the COLOR BAL B, and/or the TINT settings, etc.	Vol.2-3
Pictures appear dark	The brightness setting and/or contrast setting has not been properly adjusted.	Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc.	Vol.2-2
	The WHISPER mode is the current setting.	Change (by releasing) from the WHISPER mode.	Vol.2-6
	Lamp is approaching the end of its product lifetime.	Exchange the old lamp with a new lamp.	Vol.1-25, 26
Pictures appear blurry	Either the FOCUS setting or the H PHASE is not properly adjusted.	Adjust the FOCUS and H PHASE settings.	Vol.1-15 Vol.2-3

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NOTE

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

SPECIFICATIONS

NOTE • This specifications are subject to change without notice.

Item		Specification
Product name		Liquid crystal projector
Liquid crystal panel	Panel size	1.8 cm (0.7 type)
	Drive system	TFT active matrix
	Pixels	CP-S317：480,000 pixels (800 horizontal x600 vertical) CP-X327：786,432 pixels (1024 horizontal x 768 vertical)
Lens		Zoom lens F=1.7 ~ 1.9 f=21.7 ~ 26.1 mm
Lamp		150 W UHB
Speaker		1.0W
Power supply		AC100 ~ 120V, 2.7A / AC220 ~ 240V, 1.3A
Power consumption		240W
Temperature range		0 ~ 35°C (Operating)
Size		295 (W) x 87.5 (H) x237 (D) mm
Weight (mass)		2.7 kg
Terminal		**RGB Terminal** RGB IN(1, 2) ....2 **VIDEO Terminal** VIDEO IN ....1 S-VIDEO IN ....1 COMPONENT VIDEO 　　(Y, C$_B$/P$_B$,C$_R$/P$_R$) ......1 　 **AUDIO Terminal** AUDIO IN(R, L) ....1 **OUT Terminal** RGB OUT........................1 **CONTROL Terminal** CONTROL ....1 USB 1
Optional Parts		Lamp: CP-S317=DT00511, CP-X327=DT00521 Air Filter: MU01691 * For others, consult your dealer.

Dimension Diagram

Unit : mm

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WARRANTY AND AFTER-SERVICE

If a problem occurs with the equipment, first refer to the **7** "WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED" section and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

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