



# Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdlp.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdlp.com>

Video Guides: <http://www.fixyourdlp.com/guides>

User Forums: <http://www.fixyourdlp.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdlp.com/counterfeits>

## Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



**FixYourDLP.com**

Sponsored by 

# HITACHI

Liquid Crystal Projector

## CP-S318/CP-X328

(CP-S318W/CP-X328W)

### USER'S MANUAL Vol.1 Basic

Please read this user's manual thoroughly to ensure correct usage through understanding.

### BEDIENUNGSANLEITUNG Teil 1 Grundlagen

Bitte lesen 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 gebruik 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.

### INSTRUÇÕES DO PROPRIETÁRIO Vol.1 Básico

Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do utilizador.

### 使用说明书 卷1 基本篇

请仔细阅读本《用户操作手册》，在理解的基础上正确使用。

### 취급 설명서 제1권 기본편

이 유저 매뉴얼을 잘 읽으시고, 이해하신 후 정확하게 사용해 주십시오.

ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

NEDERLANDS

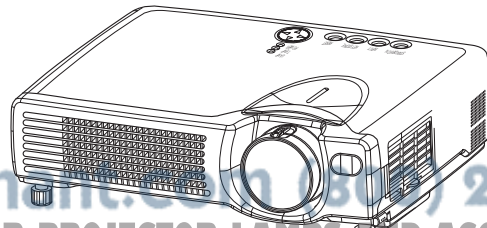
NORSK

PORTGÊS

中文

한국어

REGULATORY  
NOTICES



 FixYourDLP.com  
Sponsored by DM

Discount-Merchants.com (800) 283-560  
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

LCD Projector CP-S318/CP-X328

# USER'S MANUAL Vol.1 (Basic)

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.

**TRADEMARK ACKNOWLEDGEMENT :**

- PS/2, VGA and XGA are registered trademarks of the International Business Machines Corporation.
- Apple, Mac and ADB are registered trademarks of Apple Computer, Inc.
- VESA and SVGA are trademarks of the Video Electronics Standard Association.
- Windows is a registered trademark of Microsoft Corporation.
- All other trademarks are the property of their respective owners.

## CONTENTS

	Page		Page
<b>PROJECTOR FEATURES</b> .....	2	<b>CORRECTING KEYSTONE</b>	
<b>PREPARATIONS</b> .....	2	<b>DISTORTIONS</b> .....	20
<b>PART NAMES</b> .....	4	<b>USING THE MAGNIFY</b>	
<b>SETTING UP</b>		<b>FEATURE</b> .....	21
<b>THE PROJECTOR</b> .....	6	<b>FREEZING THE SCREEN</b> .....	21
<b>CONNECTING</b>		<b>SIGNAL SEARCHING</b> .....	22
<b>YOUR DEVICES</b> .....	8	<b>SELECTING THE ASPECT</b>	
<b>USING THE REMOTE</b>		<b>RATIO</b> .....	22
<b>CONTROL</b> .....	13	<b>TEMPORARILY BLANKING</b>	
<b>TURNING ON THE POWER</b> .....	14	<b>THE SCREEN</b> .....	22
<b>TURNING OFF THE POWER</b> .....	16	<b>USING THE MENU</b>	
<b>ADJUSTING THE VOLUME</b> .....	17	<b>FUNCTIONS</b> .....	23
<b>TEMPORARILY MUTING</b>		<b>OPERATING THE PC SCREEN</b> .....	24
<b>THE SOUND</b> .....	17	<b>THE LAMP</b> .....	25
<b>ADJUSTING THE POSITION</b> .....	18	<b>THE AIR FILTER</b> .....	27
<b>USING THE AUTOMATIC</b>		<b>OTHER CARE</b> .....	29
<b>ADJUSTMENT FEATURE</b> .....	19	<b>REGULATORY NOTICES</b> .....	30

## 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

### ● Keystone Distortion Correction

Quick correction of distorted images electrically

### ● Partial Magnification Function

Interesting parts of images can be magnified for closer viewing

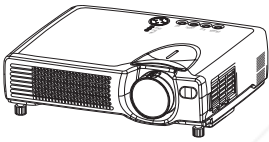
### ● Whisper Mode Equipped

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.



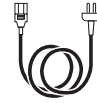
**Projector  
(with Lens Cap)**



**Power cord  
(US Type)**



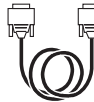
**Power cord  
(UK Type)**



**Power cord  
(Europe Type)**



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



**RGB cable**



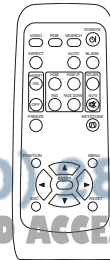
**Video/Audio cable**



**USB mouse  
cable**



**Two AA batteries  
(for the remote  
control)**



**Remote control**



**Soft carrying case**

FixYourDLP.com  
Sponsored by  
**Discount-Merchant.com** 1-800-31-8860  
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

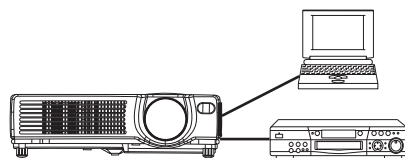
**⚠ WARNING** Precautions to observe in regards to the power cord: Please use extra caution when connecting the projector's power cord as incorrect or faulty connections may result in FIRE AND/OR ELECTRICAL SHOCK. Please adhere to the following safety guidelines to insure safe operation of the projector:

- 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.

## 1 Connect your devices to the projector

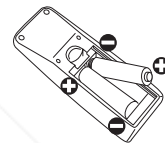
8 ~ 12

Connect your computer, VCR and/or other devices you will be using to the projector.



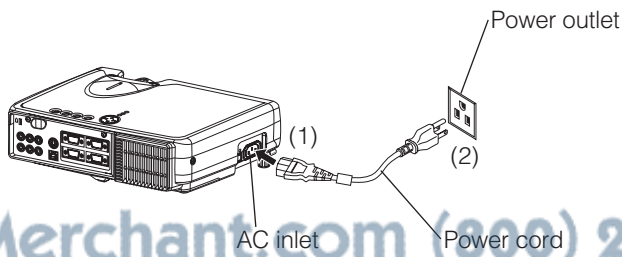
## 2 Insert the batteries into the remote control

13




## 3 Connect the power cord

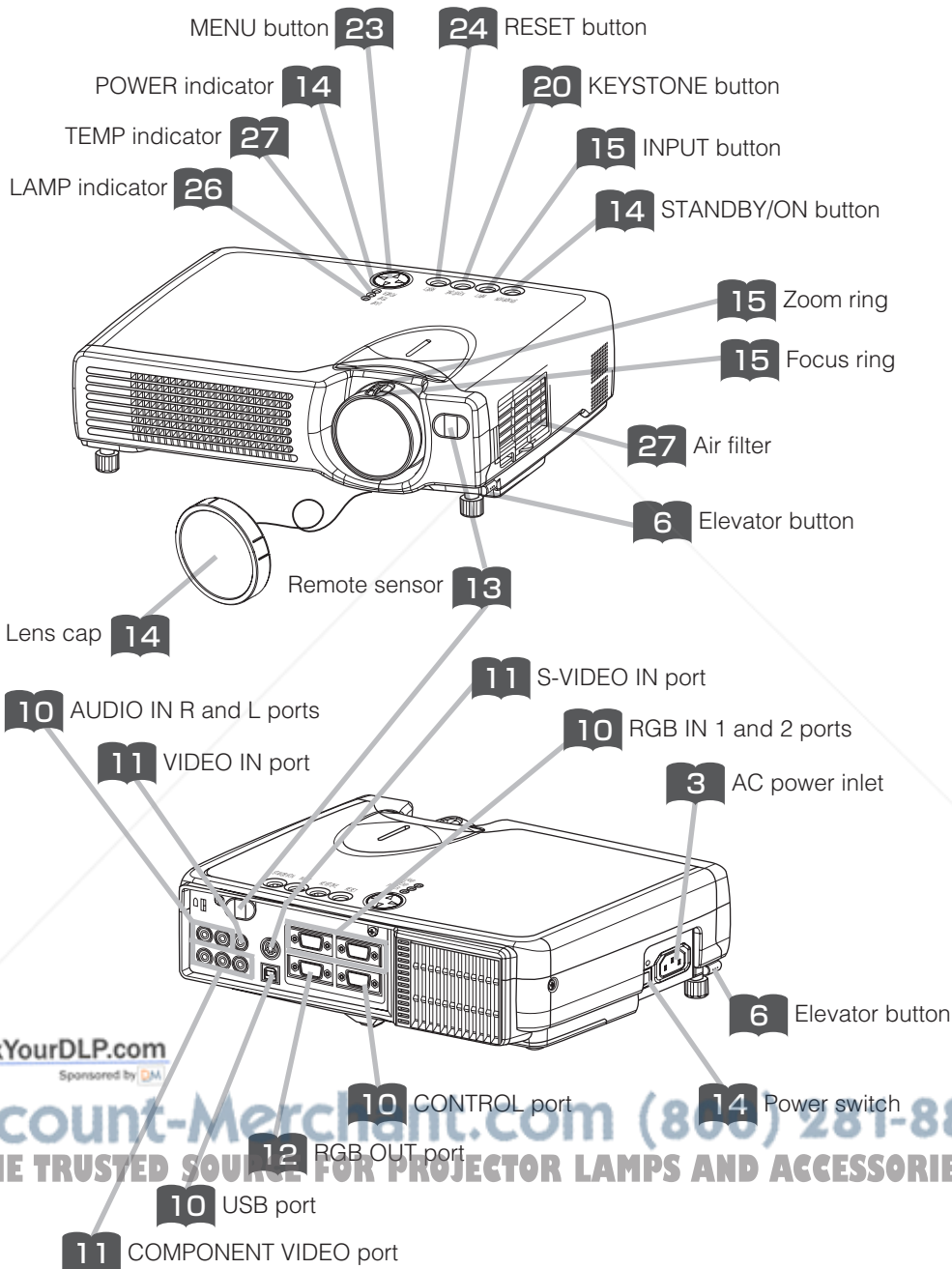
- (1) Connect the connector of the electrical power cord to the AC inlet of the main unit.
- (2) Firmly plug the power cord's plug into the outlet



# PART NAMES

# THE PROJECTOR

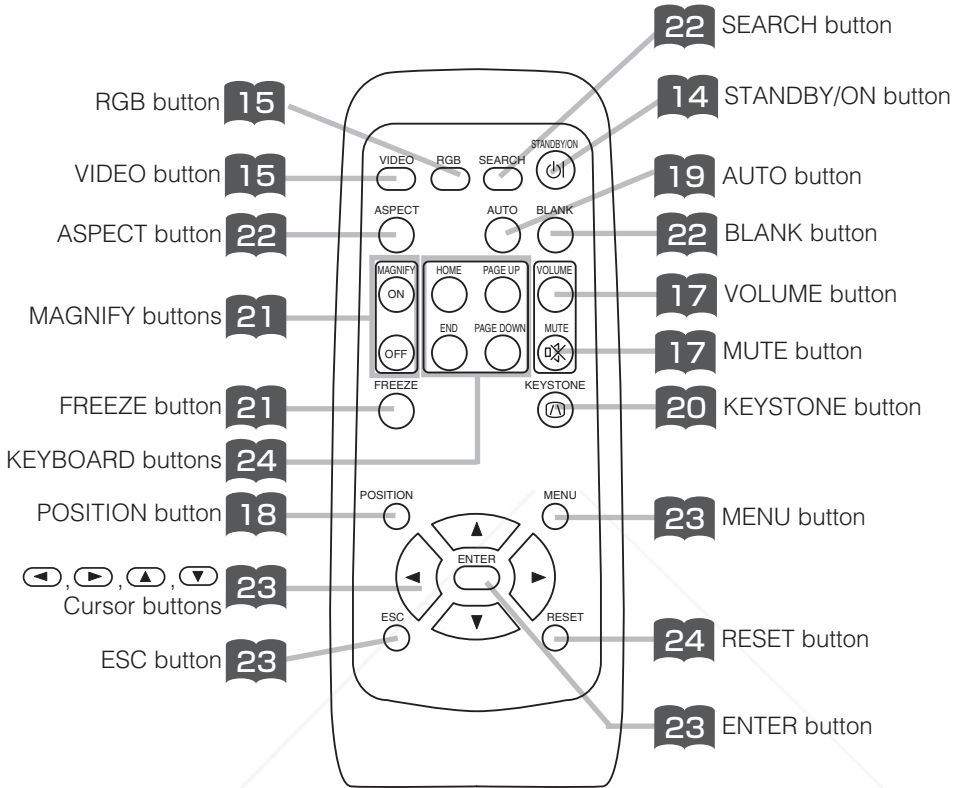
 Indicates the corresponding reference page



# Discount-Merchant.com (800) 281-8860

## THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## THE REMOTE CONTROL



## SETTING UP THE PROJECTOR



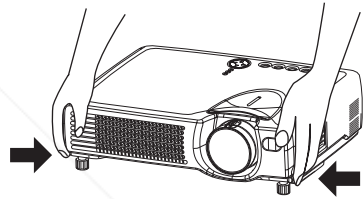
**CAUTION** • Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.

- 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**

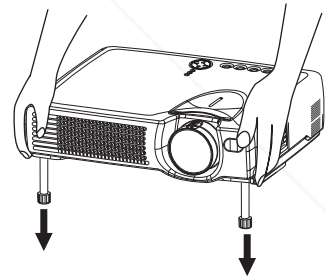
You can use the elevator feet to make adjustments if the surface on which you need to set the projector is uneven or if you otherwise need to adjust the angle of projection. The adjustment range of the elevator feet is 0 to 9 degrees.

- 1 Press and hold in the elevator buttons**

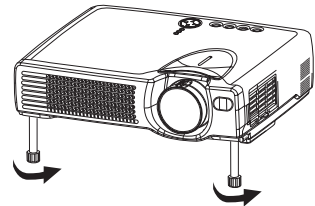


- 2 Raise or lower the projector to the desired height and then release the elevator buttons**

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**





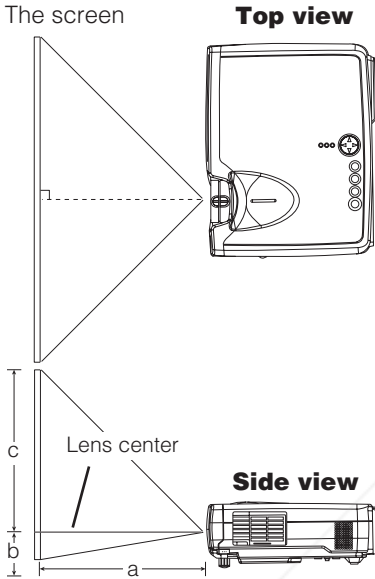
## Adjusting the Screen Size and Projection Distance

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

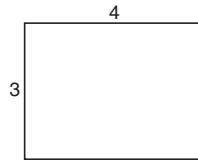
The values shown in the table are calculated for a full size screen (CP-S318: 800x600 pixels/CP-X328: 1024x768 pixels).

- a: Distance from the projector to the screen ( $\pm 10\%$ )
- b: Distance from the lens center to the bottom of the screen ( $\pm 10\%$ )
- c: Distance from the lens center to the top of the screen ( $\pm 10\%$ )

The screen

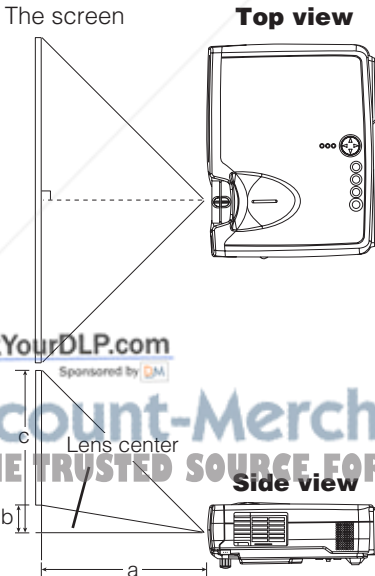


If 4:3 aspect ratio

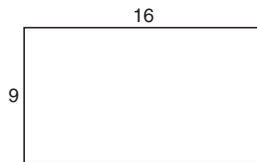


Screen Size [inch (m)]	a [inch (m)]		b [inch (cm)]	c [inch (cm)]
	Min.	Max.		
30 (0.8)	35 (0.9)	42 (1.1)	1 (2)	17 (44)
40 (1.0)	47 (1.2)	56 (1.4)	1 (3)	23 (58)
50 (1.3)	59 (1.5)	71 (1.8)	1 (4)	29 (73)
60 (1.5)	71 (1.8)	85 (2.2)	2 (4)	34 (87)
70 (1.8)	83 (2.1)	100 (2.5)	2 (5)	40 (102)
80 (2.0)	95 (2.4)	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)

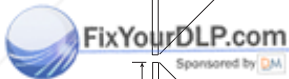
The screen



If 16:9 aspect ratio



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)



Discount-Merchant.com 860

THE TRUSTED SOURCE FOR PROJECTOR PARTS AND ACCESSORIES

## CONNECTING YOUR DEVICES

### ***Devices You Can Connect to the Projector (Refer to this section for planning your device configuration to use for your presentation.)***

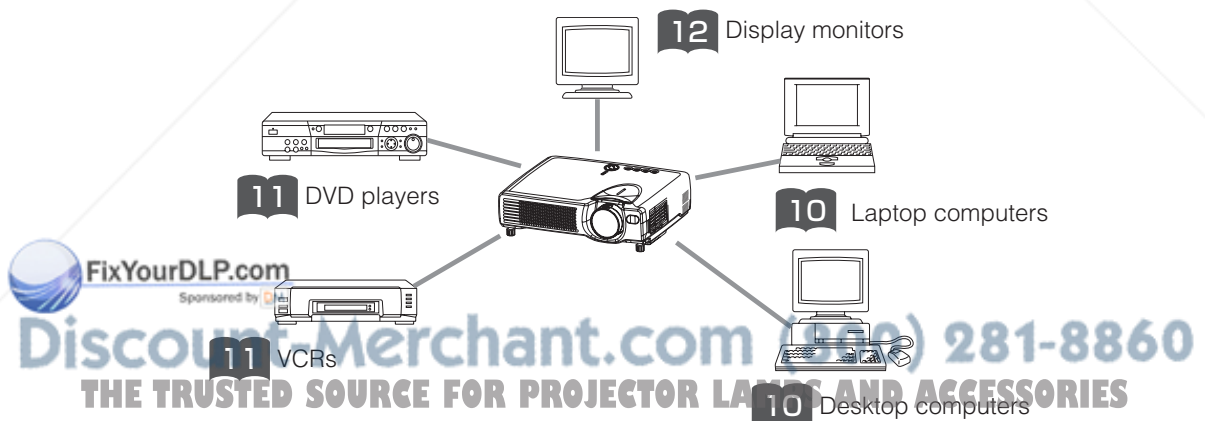
**CAUTION** • Incorrect connecting could result in fire or electrical shock. Please read this manual and the separate "SAFETY INSTRUCTIONS".

#### **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



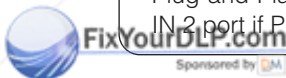
## Ports and Cables

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 <sub>B</sub> /P <sub>B</sub>	
	COMPONENT VIDEO C <sub>R</sub> /P <sub>R</sub>	
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.

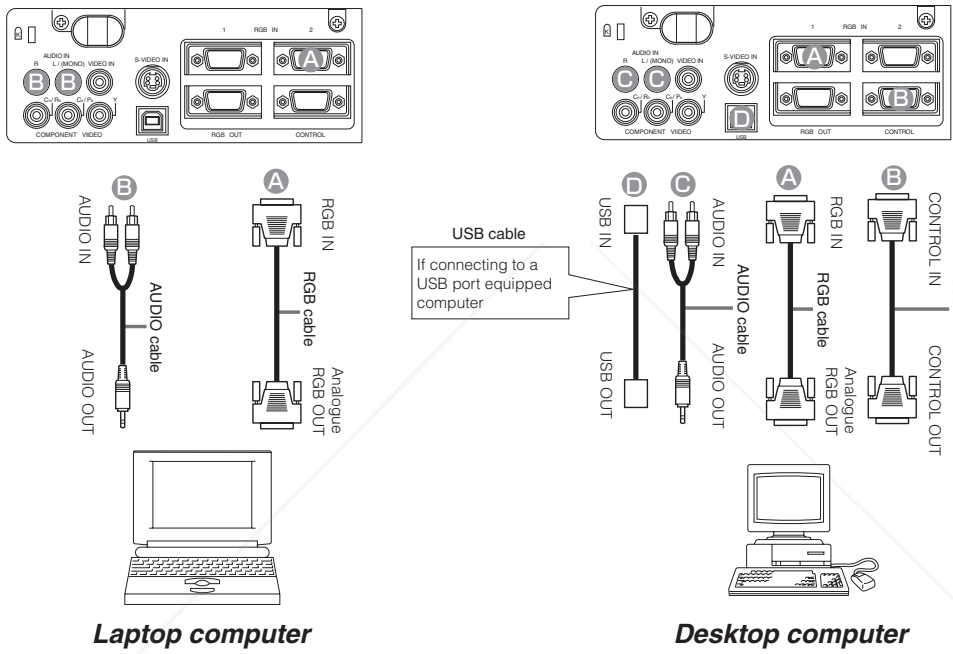


**Discount-Merchant.com (800) 281-8860**  
**THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES**

# 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

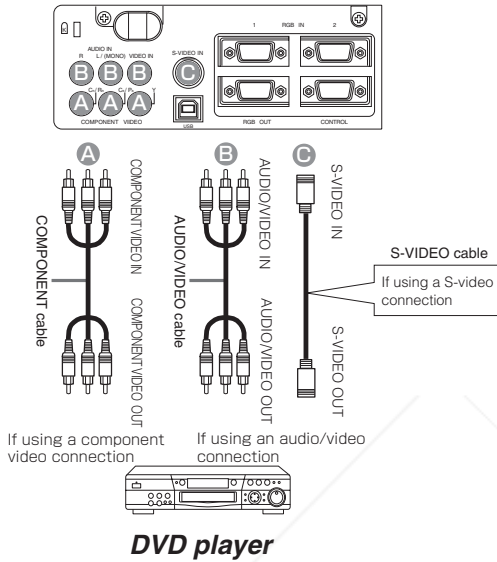
**NOTE**

- 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.

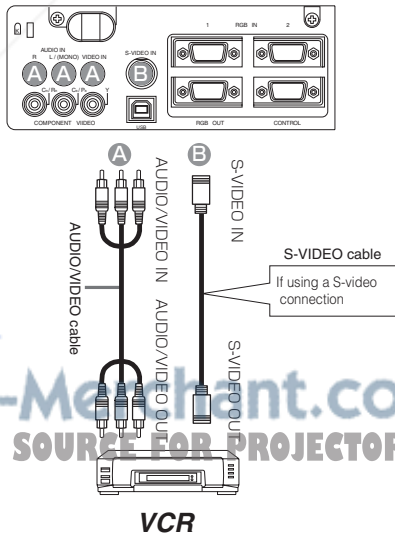


**Discount-Merchant.com (800) 281-8860**  
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## Connecting to a DVD Player

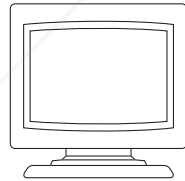
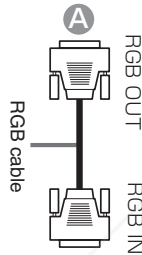
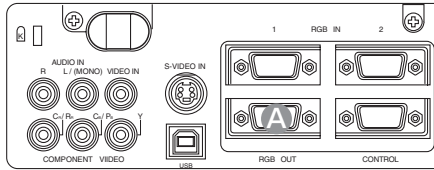


## Connecting to a VCR



## CONNECTING YOUR DEVICES (continued)

### **Connecting to a Display Monitor**



**Display monitor**

## USING THE REMOTE CONTROL

### Putting batteries into the remote control unit



#### **CAUTION** Precautions to observe in regards to the batteries

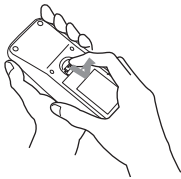
Always handle the batteries with care and use them only as directed. Improper use may result in battery cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

- 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**

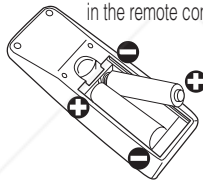
Slide back and remove the battery cover in the direction of the arrow.



### 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

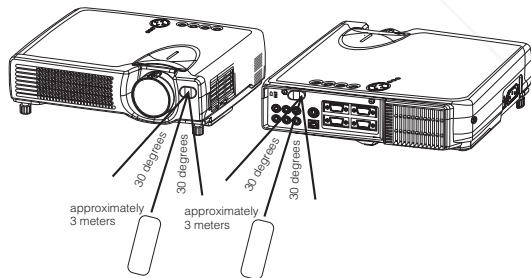
#### **Close the battery cover**

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.



#### **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 directly hitting the projector's remote sensor.

## TURNING ON THE POWER

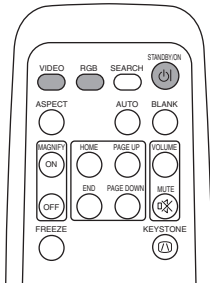
### Precautions

Connect all devices to be used to the projector prior to turning on the power.

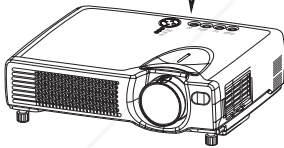
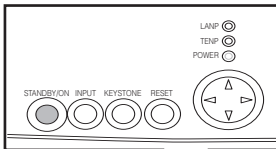
8 ~ 12



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



Control panel



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

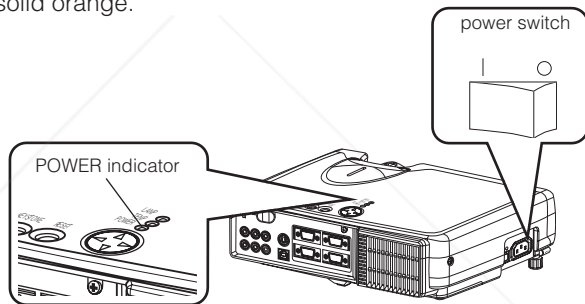
- Power on the projector before the computer or video tape recorder.
- Power off the projector after the computer or video tape recorder.

### 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.



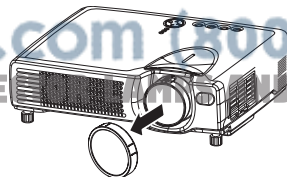
### 3 Press the STANDBY/ON button (control panel or remote control)

- 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.



### 4 Remove the lens cap

The picture is projected.



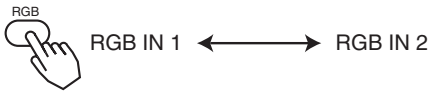


## Selecting an Input Signal

### 5 Using the remote control

#### 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.



#### If selecting video input Press the VIDEO button

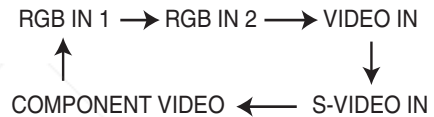
Press this button to toggle between the devices connected to VIDEO IN, S-VIDEO IN and COMPONENT VIDEO. As illustrated below, each time you press the VIDEO button, the projector switches between VIDEO IN, S-VIDEO IN and COMPONENT VIDEO. Select the signal you wish to project.



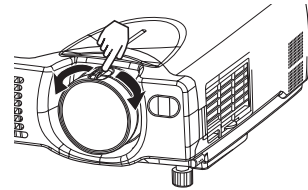
### Using the projector's control panel

#### Press the INPUT button

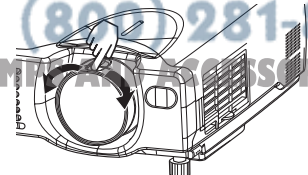
As illustrated below, each time you press the INPUT button, the projector switches between its input signal ports. Select the signal you wish to project.



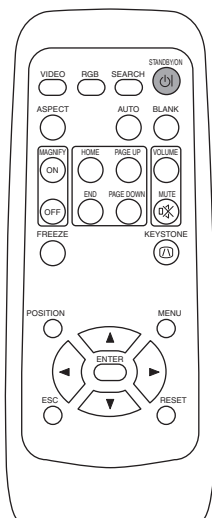
### 6 Use the zoom ring to adjust the screen size



### 7 Use the focus ring to focus the picture



## 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.



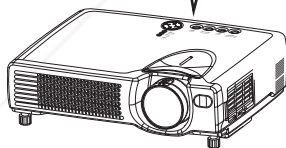
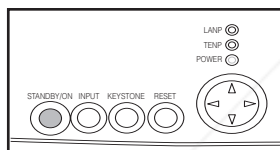
### 2 Press the **STANDBY/ON** button again (control panel or remote control)

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.

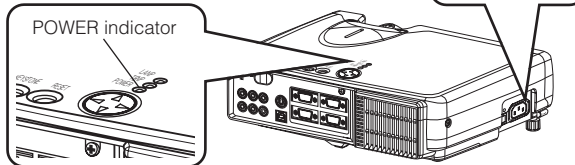


### Control panel



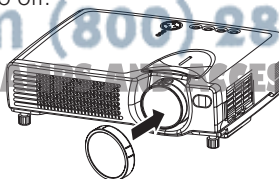
### 3 Check that the **POWER** indicator stops blinking and lights to solid orange.

Switch the power switch to **[O] (OFF)**.



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

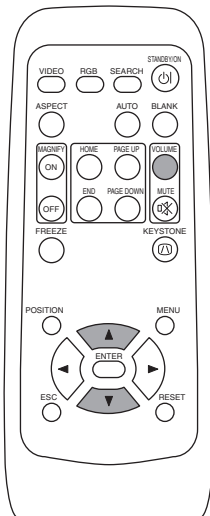
When the projector has completed powering down, the POWER indicator will go off.



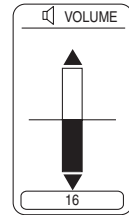
### NOTE

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

## ADJUSTING THE VOLUME



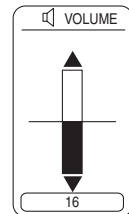
- 1 Press the **VOLUME** button**  
As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the volume.



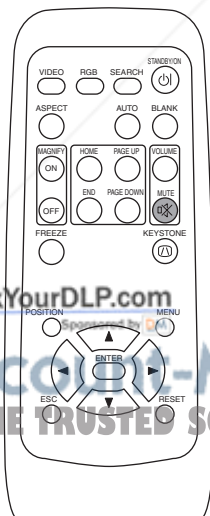
- 2 Press the **▲**, **▼** buttons to adjust the volume**  
Press the VOLUME button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.)



- ▲** Press this to increase the volume
- ▼** Press this to decrease the volume



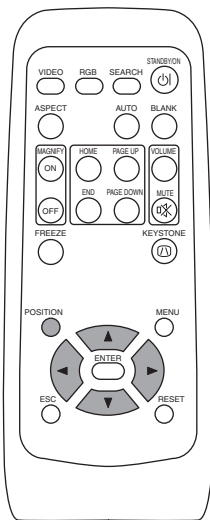
## TEMPORARILY MUTING THE SOUND



- 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.



## 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.

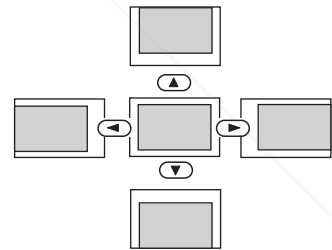
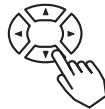


### 2 Use the **◀, ▶, ▲, ▼** buttons to adjust the position

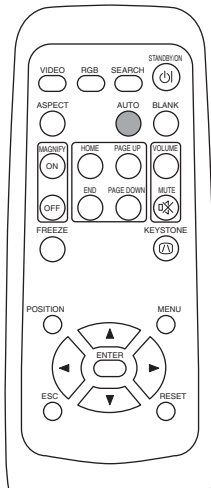
When you want to initialize the position, press the RESET button during adjustment.

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.



## USING THE AUTOMATIC ADJUSTMENT FEATURE



### 1

### Press the **AUTO** button



#### 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

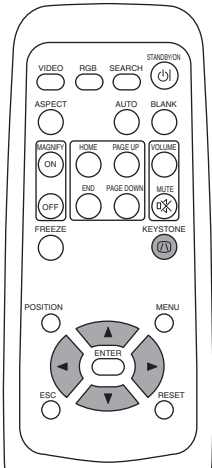
The signal type best suited for the respective input signal is selected automatically.

This feature is available only if VIDEO is set to AUTO in the INPUT menu.

#### NOTE

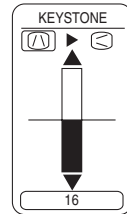
The automatic adjustment operation requires approximately 10 seconds. Also, please note that it may not function correctly with some input signals.

## 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.



### 2 Use the **◀, ▶** buttons to select the direction of distortion to correct (▲/▼)



### 3 Use the **▲, ▼** buttons to correct the distortion

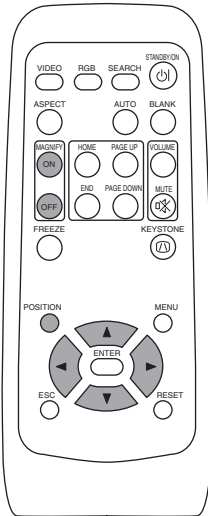
Press the KEYSTONE button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.)



#### NOTE

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

## USING THE MAGNIFY FEATURE



### 1 Press the **MAGNIFY (ON)** button

The projector enters MAGNIFY mode.



### 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



### 3 Press the **▲, ▼** buttons to zoom in and out of the selected area.

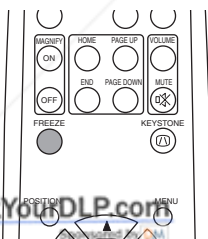
Press the MAGNIFY (OFF) button to exit MAGNIFY mode and restore the screen to normal. (The projector will also automatically exit MAGNIFY mode if there is a change in the input signal's state.)



#### 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

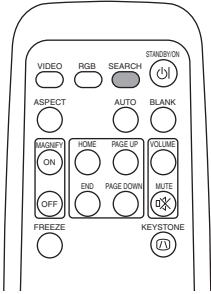
The [II] icon appears and the screen will freeze at the current image. Press the FREEZE button again and the [▶] appears as the projector exits FREEZE mode.



#### NOTE

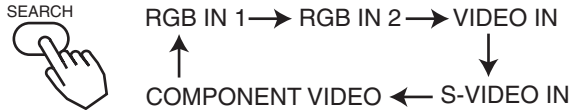
- The projector will automatically exit from FREEZE mode if either the POSITION, VOLUME, MUTE, AUTO, BLANK ON/OFF or MENU ON/OFF feature is used, or, if there is a change in the input signal's state.
- If the projector continues projecting the same image for a long time (i.e. you forget to exit FREEZE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

## SIGNAL SEARCHING

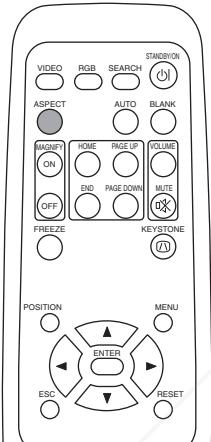


### 1 Press the **SEARCH** button

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.



## SELECTING THE ASPECT RATIO



### 1 Press the **ASPECT** button



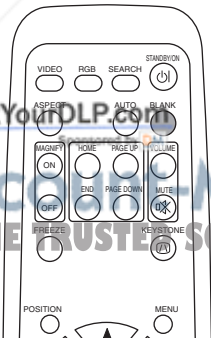
RGB IN 1, RGB IN 2, COMPONENT VIDEO  
(HDTV signals : 1125i (1035i/1080i), 750p)

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



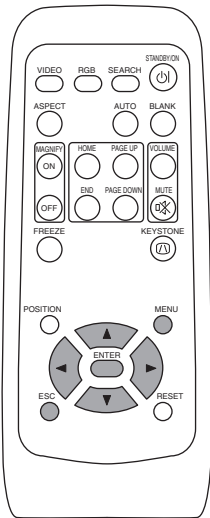
### 1 Press the **BLANK** button

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.





# 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.

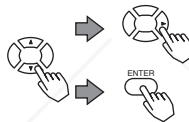


## 2 Select a menu using the / buttons, then press the or ENTER button.

The display of the selected menu appears.

[ex. Adjusting SHARPNESS]

Use the / buttons to select PICTURE-1, then press the or ENTER button.



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

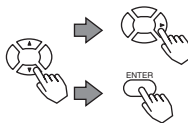
: SELECT

## 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.



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

: 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.



FixYourDLP.com

Discount-Merchant.com (800) 281-8860

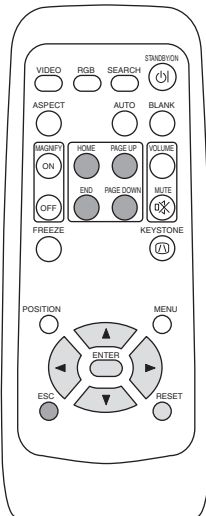
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## 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.

## THE LAMP



**HIGH VOLTAGE  
HIGH TEMPERATURE  
HIGH PRESSURE**

Before replacing the lamp, check the serial number of the replacement lamp bulb (sold separately: DT00511), 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 )) and "Regarding the indicator Lamps" (Vol.2 )) 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)

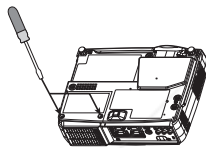
### Replacing the lamp

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.)

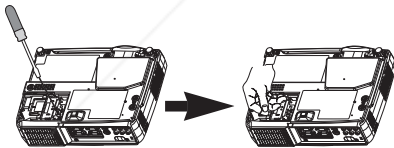
- 1** Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes, and prepare a new lamp (sold separately: DT00511)

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

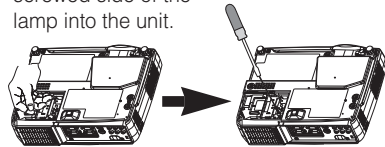
- 3** Unscrew the 2 screws, and remove the lamp cover



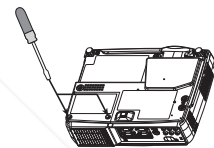
- 4** Unscrew the 1 screw, and slowly pull out the lamp by the handle
- Be careful not to touch the inside of the lamp case.



- 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.

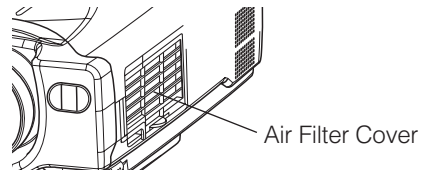
## THE AIR FILTER

### ***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 ) and "Regarding the Indicator Lamps" (Vol.2 ) for details.)

#### **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**



#### **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.

## 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.

LCD Projector CP-S318/CP-X328

# 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.

**TRADEMARK ACKNOWLEDGEMENT :**

- PS/2, VGA and XGA are registered trademarks of the International Business Machines Corporation.
- Apple, Mac and ADB are registered trademarks of Apple Computer, Inc.
- VESA and SVGA are trademarks of the Video Electronics Standard Association.
- Windows is a registered trademark of Microsoft Corporation.
- All other trademarks are the property of their respective owners.

## CONTENTS

	Page
<b>MULTIFUNCTIONAL SETTINGS .....</b>	<b>2</b>
<b>WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED .....</b>	<b>7</b>
<b>SPECIFICATIONS .....</b>	<b>10</b>
<b>WARRANTY AND AFTER-SERVICE .....</b>	<b>11</b>

For "TECHNICAL" see the end of this manual.



**Discount-Merchant.com (800) 281-8860**  
**THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES**



## 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  $\blacktriangle$ / $\blacktriangledown$  button, and press the  $\blacktriangleright$  button or the ENTER button.

**Item selection** : Choose an item using the  $\blacktriangle$ / $\blacktriangledown$  button, and press the  $\blacktriangleright$  button or the ENTER button.

**Return menu to last previous screen**: Press the  $\blacktriangleleft$  button or the ESC button.

**Execution of settings and/or adjustments**: Operate by using the  $\blacktriangle$ / $\blacktriangledown$  button. (For further details, read the explanation for each separate menu.)

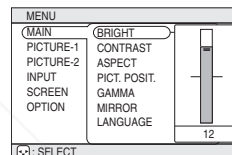
**Initialization of settings and/or adjustments**: During operation, press the RESET button. (Note that items whose functions are performed simultaneously with the operation of clock phase, language selection, automatic adjustment, etc., cannot be initialized.)

**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.



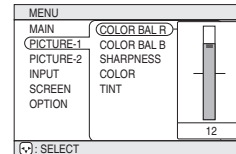
Example : MAIN Menu (BRIGHT)

### MAIN Menu

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

## 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.



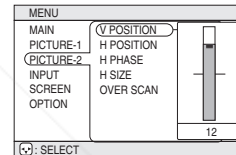
Example : PICTURE1 Menu (COLOR BAL R)

### PICTURE1 Menu

Item	Description
<b>COLOR BAL R</b>	<b>Adjust Red Color Balance:</b> Dark ▲ ⇄ ▼ Light
<b>COLOR BAL B</b>	<b>Adjust Blue Color Balance:</b> Dark ▲ ⇄ ▼ Light
<b>SHARPNESS</b>	<b>Adjust Sharpness (for VIDEO/S-VIDEO):</b> Clear ▲ ⇄ ▼ Soft
<b>COLOR</b>	<b>Adjust COLOR (for VIDEO/S-VIDEO/COMPONENT VIDEO):</b> Dark ▲ ⇄ ▼ Light
<b>TINT</b>	<b>Adjust Tint (for VIDEO/S-VIDEO):</b> 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
<b>V POSITION</b>	<b>Adjust Vertical Position (for RGB):</b> Up ▲ ⇄ ▼ Down
<b>H POSITION</b>	<b>Adjust Horizontal Position (for RGB):</b> Left ▲ ⇄ ▼ Right
<b>H PHASE</b>	<b>Adjust Horizontal Phase (for RGB/COMPONENT VIDEO):</b> Right ▲ ⇄ ▼ Left • Adjust to eliminate flicker.
<b>H SIZE</b>	<b>Adjust Horizontal Size (for RGB):</b> 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.
<b>OVER SCAN</b>	<b>Select Over-scan Ratio (for VIDEO/S-VIDEO/COMPONENT VIDEO):</b> LARGE ▼ ⇄ ▲ MIDDLE ▼ ⇄ ▲ SMALL • It is recommended to select SMALL to avoid flicker at the lower part of the picture.



FixYourDLP.com

Sponsored by DM

Discount-USA.com (800) 281-8860

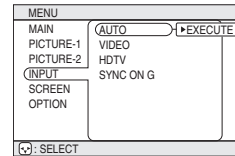
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## 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.



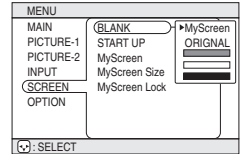
Example : INPUT Menu (AUTO)

### INPUT Menu

Item	Description
AUTO	<p><b>Auto Adjust (for RGB):</b> Automatically adjusts H POSITION, V POSITION, H PHASE, and H SIZE. Use this function with the maximum window size.</p> <p><b>Auto Adjust (for VIDEO/S-VIDEO):</b> 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.</p> <ul style="list-style-type: none"> <li>This function may not be available with a PAL60 signal and certain other signals.</li> <li>The AUTO mode operation requires approximately 10 seconds.</li> <li>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.</li> </ul>
VIDEO	<p><b>Select Mode of Signal Type (for VIDEO/S-VIDEO):</b>                      AUTO (▼) ⇔ (▲) NTSC (▼) ⇔ (▲) PAL (▼) ⇔ (▲) SECAM (▼) ⇔ (▲) NTSC4.43 (▼) ⇔ (▲) M-PAL (▼) ⇔ (▲) N-PAL</p> <p>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.)</p> <ul style="list-style-type: none"> <li>AUTO mode may not function correctly with a PAL60 signal and certain other signals.</li> <li>The AUTO mode operation requires approximately 10 seconds.</li> <li>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.</li> </ul>
HDTV	<p><b>Select HDTV Signal Mode:</b>                      1080i (▼) ⇔ (▲) 1035i</p> <ul style="list-style-type: none"> <li>If the selected HDTV mode is incompatible with the input signal, the picture may be distorted.</li> </ul>
SYNC ON G	<p><b>On/Off SYNC ON G Mode:</b>                      TURN ON (▼) ⇔ (▲) TURN OFF</p> <p>Selecting TURN ON turns on the SYNC ON G mode. The SYNC ON G mode allows reception of SYNC on G.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>

# 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.



Example : SCREEN Menu (BLANK)

## SCREEN Menu

Item	Description
<b>BLANK</b>	<p><b>Selection of BLANK Screen:</b>                      MyScreen (▼) ⇄ (▲) ORIGINAL (▼) ⇄ (▲) [ ] (▼) ⇄ (▲) [ ] (▼) ⇄ (▲) [ ]</p> <p>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)).</p> <p><b>MyScreen:</b> 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.</p> <p><b>ORIGINAL:</b> Existing standard screens. Please make confirmation using the actual screen(s).</p> <p><b>Option screens:</b> Various colored non-patterned (plain) screens displayed within the Menus.</p> <ul style="list-style-type: none"> <li>The MyScreen and the ORIGINAL Screen will each change to a non-patterned (plain) black color screen several minutes after being displayed.</li> </ul>
<b>START UP</b>	<p><b>Selection of START UP Screen:</b>                      MyScreen (▼) ⇄ (▲) ORIGINAL (▼) ⇄ (▲) TURN OFF</p> <p>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.</p> <p><b>MyScreen:</b> 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.</p> <p><b>ORIGINAL:</b> Existing standard screens. Please make confirmation using the actual screen(s).</p> <p><b>TURN OFF:</b> A non-patterned (plain) blue color screen.</p> <ul style="list-style-type: none"> <li>The MyScreen and the ORIGINAL Screen will each change to the BLANK Screen several minutes after being displayed.</li> </ul>
<b>MyScreen</b>	<p><b>Registration of MyScreen:</b>                      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.</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ol>
<b>MyScreen Size</b>	<p><b>Selection of MyScreen display size:</b>                      x1 (▼) ⇄ (▲) FULL</p>
<b>MyScreen Lock</b>	<p><b>Invalidation of MyScreen registration function:</b>                      TURN ON (▼) ⇄ (▲) TURN OFF</p> <p>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.</p>



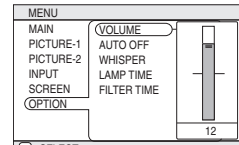
Discount-Merchant.com (800) 281-8860  
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## 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.



Example : OPTION Menu (VOLUME)

### OPTION Menu

Item	Description
<b>VOLUME</b>	<b>Adjust Volume:</b> High (▲) ⇄ (▼) Low
<b>AUTO OFF</b>	<b>Adjust AUTO OFF Time:</b> 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.
<b>WHISPER</b>	<b>Select WHISPER Mode:</b> NORMAL (▼) ⇄ (▲) WHISPER When WHISPER is selected the WHISPER mode is activated. In the WHISPER mode, acoustic noise and screen brightness are reduced.
<b>LAMP TIME</b>	<b>Refer to LAMP TIME:</b> When set, this function displays the total time the projector lamp has been used since new. <b>Reset LAMP TIME [Use this function only when the lamp has been replaced!]:</b> 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. <ul style="list-style-type: none"> <li>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.</li> <li>Before replacing the lamp, carefully read the descriptions headed "THE LAMP".</li> </ul>
<b>FILTER TIME</b>	<b>Refer to FILTER TIME:</b> This function displays the total time the air-filter has been used since new. <b>Reset FILTER TIME [Use this function only when the filter is cleaned or replaced!]:</b> 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 <ul style="list-style-type: none"> <li>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.</li> <li>Before cleaning or replacing the filter, carefully read the descriptions headed "THE AIR FILTER".</li> </ul>

## WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED

### 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
<b>CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER.</b> (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.
<b>CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER * * hr.</b> (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.
<b>CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER 0 hr.</b>	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.
<b>CLEAN THE AIR FILTER AFTER CLEANING AIR FILTER, RESET THE FILTER TIMER.</b>	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.
<b>NO INPUT IS DETECTED ON * * *</b>	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
<b>SYNC IS OUT OF RANGE</b> ON *** <input type="text" value="fH"/> *****kHz <input type="text" value="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.
<b>CHECK THE AIR FLOW</b>	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 reset the power to ON. <ul style="list-style-type: none"> <li>• Is there blockage of the air passage aperture?</li> <li>• Is the air filter dirty?</li> <li>• Does the peripheral temperature exceed 35°C?</li> </ul>

#### 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.

## 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.

## 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

#### 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.

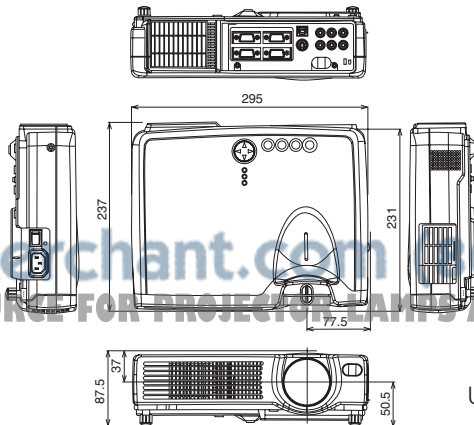


## SPECIFICATIONS

**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-S318 : 480,000 pixels (800 horizontal x600 vertical) CP-X328 : 786,432 pixels (1024 horizontal x 768 vertical)														
Lens		Zoom lens F=1.7 ~ 2.1 f=36.8 ~ 47.8 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		<table border="0"> <tr> <td><b>RGB Terminal</b></td> <td><b>AUDIO Terminal</b></td> </tr> <tr> <td>RGB IN(1, 2) .....2</td> <td>AUDIO IN(R, L) .....1</td> </tr> <tr> <td><b>VIDEO Terminal</b></td> <td><b>OUT Terminal</b></td> </tr> <tr> <td>VIDEO IN .....1</td> <td>RGB OUT .....1</td> </tr> <tr> <td>S-VIDEO IN .....1</td> <td><b>CONTROL Terminal</b></td> </tr> <tr> <td>COMPONENT VIDEO</td> <td>CONTROL .....1</td> </tr> <tr> <td>(Y, Cb/Pb,Cr/Pr) .....1</td> <td>USB .....1</td> </tr> </table>	<b>RGB Terminal</b>	<b>AUDIO Terminal</b>	RGB IN(1, 2) .....2	AUDIO IN(R, L) .....1	<b>VIDEO Terminal</b>	<b>OUT Terminal</b>	VIDEO IN .....1	RGB OUT .....1	S-VIDEO IN .....1	<b>CONTROL Terminal</b>	COMPONENT VIDEO	CONTROL .....1	(Y, Cb/Pb,Cr/Pr) .....1	USB .....1
<b>RGB Terminal</b>	<b>AUDIO Terminal</b>															
RGB IN(1, 2) .....2	AUDIO IN(R, L) .....1															
<b>VIDEO Terminal</b>	<b>OUT Terminal</b>															
VIDEO IN .....1	RGB OUT .....1															
S-VIDEO IN .....1	<b>CONTROL Terminal</b>															
COMPONENT VIDEO	CONTROL .....1															
(Y, Cb/Pb,Cr/Pr) .....1	USB .....1															
Optional Parts		Lamp: DT00511 Air Filter: MU01691 * For others, consult your dealer.														

### Dimension Diagram



Unit : mm

## 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.

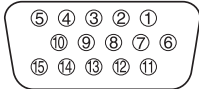


**Discount-Merchant.com (800) 281-8860**  
**THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES**

# TECHNICAL

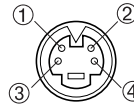
## SIGNAL CONNECTOR PIN ASSIGNMENT

RGB IN [1]/[2]  
RGB OUT



D-sub 15-pin Shrink

S-VIDEO



Mini Din 4-pin

Pin No	Signal	Pin No	Signal
1	Video input Red	9	-
2	Video input Green	10	Ground
3	Video input Blue	11	-
4	-	12	RGB IN [1]: SDA (DDC)
5	Ground		RGB IN [2]: -
6	Ground Red		RGB OUT : -
7	Ground Green	13	H. sync./ Composite sync.
8	Ground Blue	14	Vertical sync
		15	RGB IN [1]: SCL (DDC)
			RGB IN [2]: -
			RGB OUT : -

Mini Din 4-pin	
Pin No	Signal
1	Color: 0.286Vp-p (NTSC, burst signal), 75Ω terminator 0.3Vp-p (PAL/SECAM, burst signal), 75Ω terminator
2	Brightness: 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

signal	Terminal	Specification	
RGB signal input	RGB IN (1, 2)	Video: Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack	
Video signal input	VIDEO IN	1.0Vp-p, 75Ω terminator, RCA jack	
	S-VIDEO IN	Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (NTSC, burst signal), 75Ω terminator 0.300Vp-p (PAL/SECAM, burst signal), 75Ω terminator Mini DIN 4-pin jack	
	COMPONENT VIDEO	Y	1.0 Vp-p, 75 Ω Terminator (Positive)
		Cb/Pb	0.7 Vp-p, 75 Ω Terminator (Positive)
Cr/Pr		0.7 Vp-p, 75 Ω Terminator (Positive)	
Audio signal input	AUDIO IN (R, L)	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack	
Signal output	RGB OUT	Video: Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack	



FixYourDLP.com

Discount-Merchants.com (800) 281-8860  
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## EXAMPLE OF COMPUTER SIGNAL

Resolution H × V	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode	
					CP-S318	CP-X328
720 × 400	37.9	85.0	VESA	TEXT	Zoom in	Zoom in
640 × 480	31.5	59.9	VESA	VGA (60Hz)	Zoom in	Zoom in
640 × 480	35.0	66.7		Mac13"mode	Zoom in	Zoom in
640 × 480	37.9	72.8	VESA	VGA (72Hz)	Zoom in	Zoom in
640 × 480	37.5	75.0	VESA	VGA (75Hz)	Zoom in	Zoom in
640 × 480	43.3	85.0	VESA	VGA (85Hz)	Zoom in	Zoom in
800 × 600	35.2	56.3	VESA	SVGA (56Hz)		Zoom in
800 × 600	37.9	60.3	VESA	SVGA (60Hz)		Zoom in
800 × 600	48.1	72.2	VESA	SVGA (72Hz)		Zoom in
800 × 600	46.9	75.0	VESA	SVGA (75Hz)		Zoom in
800 × 600	53.7	85.1	VESA	SVGA (85Hz)		Zoom in
832 × 624	49.7	74.5		Mac16"mode	Zoom out	Zoom in
1024 × 768	48.4	60.0	VESA	XGA (60Hz)	Zoom out	
1024 × 768	56.5	70.1	VESA	XGA (70Hz)	Zoom out	
1024 × 768	60.0	75.0	VESA	XGA (75Hz)	Zoom out	
1024 × 768	68.7	85.0	VESA	XGA (85Hz)	Zoom out	
1152 × 864	67.5	75.0	VESA	SXGA (75Hz)	Zoom out	Zoom out
1280 × 960	60.0	60.0	VESA	SXGA (60Hz)	Zoom out	Zoom out
1280 × 1024	64.0	60.0	VESA	SXGA (60Hz)	Zoom out	Zoom out
1280 × 1024	80.0	75.0	VESA	SXGA (75Hz)	Zoom out	Zoom out
1280 × 1024	91.2	85.0	VESA	SXGA (85Hz)	Zoom out	Zoom out
1600 × 1200	75.0	60.0	VESA	UXGA (60Hz)	Zoom out	Zoom out

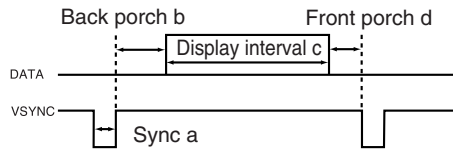
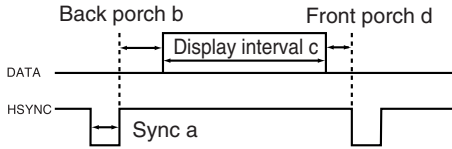
**NOTE** • Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

- Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.
- Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.
- This projector will display up to UXGA (1600X1200) resolution signals but the image is scaled to the native resolution of the projector. Best display performance is achieved when the signal input resolution is the same as the native resolution of the projector.
- The image may not be displayed correctly when the input sync. signal is "Composite Sync" or "Sync on G".

## INITIAL SET SIGNALS

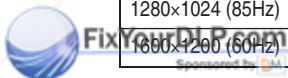
The following signals are used for the initial settings.

The signal timing of some computer models may be different. In such case, refer to adjust the V.POSIT and H.POSIT of the menu.



Computer / Signal	Horizontal signal timing (μs)			
	a	b	c	d
TEXT	2.0	3.0	20.3	1.0
VGA (60Hz)	3.8	1.9	25.4	0.6
Mac 13"mode	2.1	3.2	21.2	2.1
VGA (72Hz)	1.3	3.8	20.3	1.0
VGA (75Hz)	2.0	3.8	20.3	0.5
VGA (85Hz)	1.6	2.2	17.8	1.6
SVGA (56Hz)	2.0	3.6	22.2	0.7
SVGA (60Hz)	3.2	2.2	20.0	1.0
SVGA (72Hz)	2.4	1.3	16.0	1.1
SVGA (75Hz)	1.6	3.2	16.2	0.3
SVGA (85Hz)	1.1	2.7	14.2	0.6
Mac 16"mode	1.1	3.9	14.5	0.6
XGA (60Hz)	2.1	2.5	15.8	0.4
XGA (70Hz)	1.8	1.9	13.7	0.3
XGA (75Hz)	1.2	2.2	13.0	0.2
XGA (85Hz)	1.0	2.2	10.8	0.5
1152x864 (75Hz)	1.2	2.4	10.7	0.6
1280x960 (60Hz)	1.0	2.9	11.9	0.9
1280x1024 (60Hz)	1.0	2.3	11.9	0.4
1280x1024 (75Hz)	1.1	1.8	9.5	0.2
1280x1024 (85Hz)	1.0	1.4	8.1	0.4
1600x1200 (60Hz)	1.2	1.9	9.9	0.4

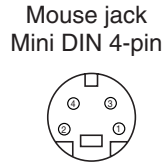
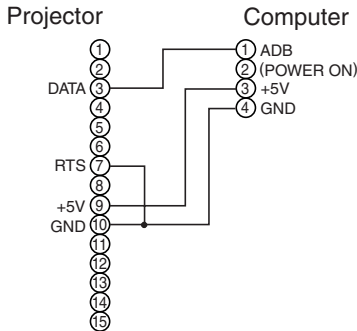
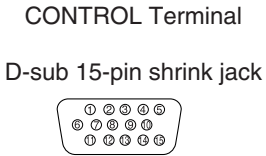
Computer / Signal	Vertical signal timing (lines)			
	a	b	c	d
TEXT	3	42	400	1
VGA (60Hz)	2	33	480	10
Mac 13"mode	3	39	480	3
VGA (72Hz)	3	28	480	9
VGA (75Hz)	3	16	480	1
VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	3	27	600	1
Mac 16"mode	3	39	624	1
XGA (60Hz)	6	29	768	3
XGA (70Hz)	6	29	768	3
XGA (75Hz)	3	28	768	1
XGA (85Hz)	3	36	768	1
1152x864 (75Hz)	3	32	864	1
1280x960 (60Hz)	3	36	960	1
1280x1024 (60Hz)	3	38	1024	1
1280x1024 (75Hz)	3	37	1024	2
1280x1024 (85Hz)	3	44	1024	1
1600x1200 (60Hz)	3	46	1200	1



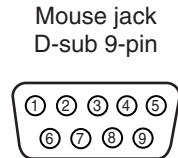
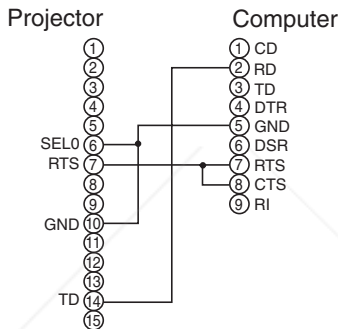
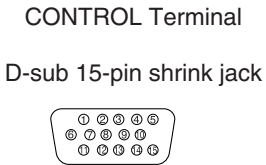
**Discount-Merchant.com (800) 281-8860**  
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

# CONNECTION TO THE MOUSE CONTROL

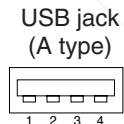
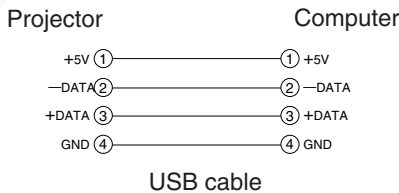
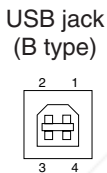
## ADB Mouse



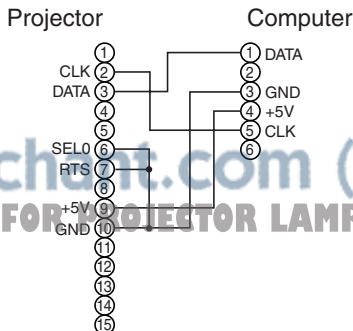
## Serial Mouse



## USB Mouse



## PS/2 Mouse

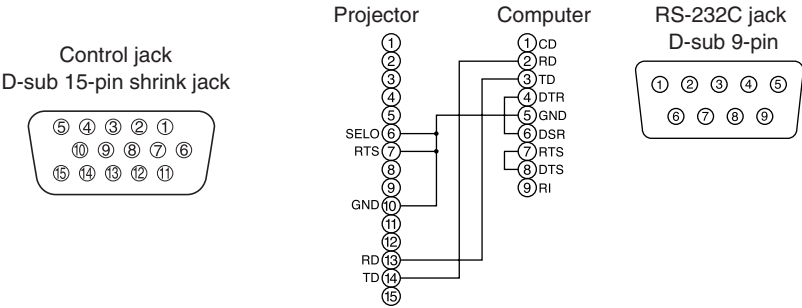


FixYourDLP.com  
Sponsored by DMJ

DiscountMerchant.com (800) 281-8860  
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

# RS-232C COMMUNICATION

- (1) Turn off the projector and computer power supplies and connect with the RS-232C cable.
- (2) Turn on the computer power supply and after the computer has started up, turn on the projector power supply.



## Communications setting

19200bps, 8N1

### 1 Protocol

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

### 2 Header

BE + EF + 03 + 06 + 00 + CRC\_low + CRC\_high  
 CRC\_low : Lower byte of CRC flag for command data.  
 CRC\_high : Upper byte of CRC flag for command data.

### 3 Command data

Command data chart

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

Action (byte\_0 - 1)

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

FixYourDLP.com  
 Discount Merchant (800) 281-8860  
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

## RS-232C COMMUNICATION (continued)

### Requesting projector status (Get command)

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

### Changing the projector settings (Set command)

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

### Using the projector default settings (Reset Command)

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

### Increasing the projector setting value (Increment command)

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

### Decreasing the projector setting value (Decrement command)

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

### When a command sent by the projector cannot be understood by the computer

When the command sent by the projector cannot be understood, the error command '15H' is returned by the computer. Some times, the projector ignores RS-232C commands during other works. If the error command '15H' is returned, please send the same command again.

### When data sent by the projector cannot be practice

When the command sent by the projector cannot be practiced, the the error code '1cH'+ 'xxxxH' is returned.

When the data length is greater than indicated by the data length code, the projector will ignore the excess data code.

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

**NOTE** • Operation cannot be guaranteed when the projector (800) 281-8860 receives an undefined command or data.

- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands are not accepted during warm-up.



### Command data chart

Names	Operation type	Header				Command data		
					CRC	Action	Type	Setting code
Blank Color	Set	Blue	BE EF	03 06	00 CB D3	01 00	00 30	03 00
		White	BE EF	03 06	00 6B D0	01 00	00 30	05 00
		Black	BE EF	03 06	00 9B D0	01 00	00 30	06 00
		MyScreen	BE EF	03 06	00 FB CA	01 00	00 30	20 00
		ORIGNAL	BE EF	03 06	00 FB E2	01 00	00 30	40 00
	Get	BE EF	03 06	00 08 D3	02 00	00 30	00 00	
Mirror	Set	Normal	BE EF	03 06	00 C7 D2	01 00	01 30	00 00
		H Inverse	BE EF	03 06	00 57 D3	01 00	01 30	01 00
		V Inverse	BE EF	03 06	00 A7 D3	01 00	01 30	02 00
		H&V Inverse	BE EF	03 06	00 37 D2	01 00	01 30	03 00
	Get	BE EF	03 06	00 F4 D2	02 00	01 30	00 00	
Freeze	Set	Normal	BE EF	03 06	00 83 D2	01 00	02 30	00 00
		Freeze	BE EF	03 06	00 13 D3	01 00	02 30	01 00
	Get	BE EF	03 06	00 B0 D2	02 00	02 30	00 00	
Startup	Set	ORIGNAL	BE EF	03 06	00 0B D2	01 00	04 30	00 00
		OFF	BE EF	03 06	00 9B D3	01 00	04 30	01 00
		MyScreen	BE EF	03 06	00 CB CB	01 00	04 30	20 00
	Get	BE EF	03 06	00 38 D2	02 00	04 30	00 00	
Language	Set	English	BE EF	03 06	00 F7 D3	01 00	05 30	00 00
		Français	BE EF	03 06	00 67 D2	01 00	05 30	01 00
		Deutsch	BE EF	03 06	00 97 D2	01 00	05 30	02 00
		Español	BE EF	03 06	00 07 D3	01 00	05 30	03 00
		Italiano	BE EF	03 06	00 37 D1	01 00	05 30	04 00
		Norsk	BE EF	03 06	00 A7 D0	01 00	05 30	05 00
		Nederlands	BE EF	03 06	00 57 D0	01 00	05 30	06 00
		Português	BE EF	03 06	00 C7 D1	01 00	05 30	07 00
		日本語	BE EF	03 06	00 37 D4	01 00	05 30	08 00
	中文	BE EF	03 06	00 A7 D5	01 00	05 30	09 00	
한글	BE EF	03 06	00 57 D5	01 00	05 30	0A 00		
Magnify	Get	BE EF	03 06	00 7C D2	02 00	07 30	00 00	
	Increment	BE EF	03 06	00 1A D2	04 00	07 30	00 00	
	Decrement	BE EF	03 06	00 CB D3	05 00	07 30	00 00	
	Get	BE EF	03 06	00 08 86	02 00	10 31	00 00	
Auto off	Increment	BE EF	03 06	00 6E 86	04 00	10 31	00 00	
	Decrement	BE EF	03 06	00 BF 87	05 00	10 31	00 00	
Brightness Reset	Execute	BE EF	03 06	00 58 D3	06 00	00 70	00 00	
Contrast Reset	Execute	BE EF	03 06	00 A4 D2	06 00	01 70	00 00	
V.Position Reset	Execute	BE EF	03 06	00 E0 D2	06 00	02 70	00 00	





FixYourDLP.com

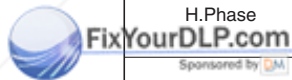
Discount-Merchant.com (800) 281-8860  
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

### Command data chart (continued)

Names	Operation type		Header				Command data		
							CRC	Action	Type
H.Position Reset	Execute		BE EF 03 06 00	IC D3	06 00	03 70	00 00		
H.Size Reset	Execute		BE EF 03 06 00	68 D2	06 00	04 70	00 00		
Color Balance R Reset	Execute		BE EF 03 06 00	94 D3	06 00	05 70	00 00		
Color Balance B Reset	Execute		BE EF 03 06 00	D0 D3	06 00	06 70	00 00		
Sharpness Reset	Execute		BE EF 03 06 00	C4 D0	06 00	09 70	00 00		
Color Reset	Execute		BE EF 03 06 00	80 D0	06 00	0A 70	00 00		
Tint Reset	Execute		BE EF 03 06 00	7C D1	06 00	0B 70	00 00		
Keystone_V Reset	Execute		BE EF 03 06 00	08 D0	06 00	0C 70	00 00		
Keystone_H Reset	Execute		BE EF 03 06 00	98 D8	06 00	20 70	00 00		
Auto Adjust	Execute		BE EF 03 06 00	91 D0	06 00	0A 20	00 00		
Lamp Time Reset	Execute		BE EF 03 06 00	58 DC	06 00	30 70	00 00		
Filter Time Reset	Execute		BE EF 03 06 00	98 C6	06 00	40 70	00 00		
Blank on/off	Set	off	BE EF 03 06 00	FB D8	01 00	20 30	00 00		
		on	BE EF 03 06 00	6B D9	01 00	20 30	01 00		
	Get	BE EF 03 06 00	C8 D8	02 00	20 30	00 00			
Error Status	Get		BE EF 03 06 00	D9 D8	02 00	20 60	00 00		
		(Example of Return) 00 00    01 00    02 00    03 00 (Normal) (Cover-error) (Fan-error) (Lamp-error) 04 00    05 00    06 00    07 00    0800 (Temp-error) (Air flow-error) (Lamp-Time-over) (Cool-error) (Filter-Error)							
Power	Set	OFF	BE EF 03 06 00	2A D3	01 00	00 60	00 00		
		ON	BE EF 03 06 00	BA D2	01 00	00 60	01 00		
	Get	BE EF 03 06 00	19 D3	02 00	00 60	00 00			
Input Source	Set	RGB1	BE EF 03 06 00	FE D2	01 00	00 20	00 00		
		RGB2	BE EF 03 06 00	3E D0	01 00	00 20	04 00		
		Video	BE EF 03 06 00	6E D3	01 00	00 20	01 00		
		SVideo	BE EF 03 06 00	9E D3	01 00	00 20	02 00		
		Component	BE EF 03 06 00	AE D1	01 00	00 20	05 00		
	Get	BE EF 03 06 00	CD D2	02 00	00 20	00 00			
Volume	Get	BE EF 03 06 00	31 D3	02 00	01 20	00 00			
	Increment	BE EF 03 06 00	57 D3	04 00	01 20	00 00			
	Decrement	BE EF 03 06 00	86 D2	05 00	01 20	00 00			
Mute	Set	Normal	BE EF 03 06 00	46 D3	01 00	02 20	00 00		
		Mute	BE EF 03 06 00	D6 D2	01 00	02 20	01 00		
	Get	BE EF 03 06 00	75 D3	02 00	02 20	00 00			
Brightness	Get	BE EF 03 06 00	89 D2	02 00	03 20	00 00			
	Increment	BE EF 03 06 00	EF D2	04 00	03 20	00 00			
	Decrement	BE EF 03 06 00	3E D3	05 00	03 20	00 00			


[FixYourDLP.com](http://FixYourDLP.com)  
 Sponsored by  DM  
**Discount-Merchant.com (800) 281-8860**  
**THE TRUSTED SOURCE FOR PROJECTOR LAMP AND ACCESSORIES**

Names	Operation type	Header				Command data		
						CRC	Action	Type
Contrast	Get	BE EF	03 06 00	FD D3	02 00	04 20	00 00	
	Increment	BE EF	03 06 00	9B D3	04 00	04 20	00 00	
	Decrement	BE EF	03 06 00	4A D2	05 00	04 20	00 00	
Color Balance R	Get	BE EF	03 06 00	01 D2	02 00	05 20	00 00	
	Increment	BE EF	03 06 00	67 D2	04 00	05 20	00 00	
	Decrement	BE EF	03 06 00	B6 D3	05 00	05 20	00 00	
Color Balance B	Get	BE EF	03 06 00	45 D2	02 00	06 20	00 00	
	Increment	BE EF	03 06 00	23 D2	04 00	06 20	00 00	
	Decrement	BE EF	03 06 00	F2 D3	05 00	06 20	00 00	
Keystone_V	Get	BE EF	03 06 00	B9 D3	02 00	07 20	00 00	
	Increment	BE EF	03 06 00	DF D3	04 00	07 20	00 00	
	Decrement	BE EF	03 06 00	0E D2	05 00	07 20	00 00	
Keystone_H	Get	BE EF	03 06 00	E9 D0	02 00	0B 20	00 00	
	Increment	BE EF	03 06 00	8F D0	04 00	0B 20	00 00	
	Decrement	BE EF	03 06 00	5E D1	05 00	0B 20	00 00	
Aspect	Set	4:3	BE EF	03 06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03 06 00	0E D1	01 00	08 20	01 00
		Small	BE EF	03 06 00	FE D1	01 00	08 20	02 00
	Get	BE EF	03 06 00	AD D0	02 00	08 20	00 00	
Picture Position at 16 : 9 or Small	Set	Default	BE EF	03 06 00	62 D1	01 00	09 20	00 00
		Bottom	BE EF	03 06 00	F2 D0	01 00	09 20	01 00
		Top	BE EF	03 06 00	02 D0	01 00	09 20	02 00
	Get	BE EF	03 06 00	51 D1	02 00	09 20	00 00	
V.Position	Get	BE EF	03 06 00	0D 83	02 00	00 21	00 00	
	Increment	BE EF	03 06 00	6B 83	04 00	00 21	00 00	
	Decrement	BE EF	03 06 00	BA 82	05 00	00 21	00 00	
H.Position	Get	BE EF	03 06 00	F1 82	02 00	01 21	00 00	
	Increment	BE EF	03 06 00	97 82	04 00	01 21	00 00	
	Decrement	BE EF	03 06 00	46 83	05 00	01 21	00 00	
H.Size	Get	BE EF	03 06 00	B5 82	02 00	02 21	00 00	
	Increment	BE EF	03 06 00	D3 82	04 00	02 21	00 00	
	Decrement	BE EF	03 06 00	02 83	05 00	02 21	00 00	
H.Phase	Get	BE EF	03 06 00	49 83	02 00	03 21	00 00	
	Increment	BE EF	03 06 00	2F 83	04 00	03 21	00 00	
	Decrement	BE EF	03 06 00	FE 82	05 00	03 21	00 00	
Sharpness	Get	BE EF	03 06 00	F1 72	02 00	01 22	00 00	
	Increment	BE EF	03 06 00	97 72	04 00	01 22	00 00	
	Decrement	BE EF	03 06 00	46 73	05 00	01 22	00 00	
Color	Get	BE EF	03 06 00	B5 72	02 00	02 22	00 00	
	Increment	BE EF	03 06 00	D3 72	04 00	02 22	00 00	
	Decrement	BE EF	03 06 00	02 73	05 00	02 22	00 00	



Sponsored by DM

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

**Command data chart (continued)**

Names	Operation type	Header				Command data		
						CRC	Action	Type
Tint	Get	BE EF	03 06 00	49 73	02 00	03 22	00 00	
	Increment	BE EF	03 06 00	2F 73	04 00	03 22	00 00	
	Decrement	BE EF	03 06 00	FE 72	05 00	03 22	00 00	
Video Format	Set	Auto	BE EF 03 06 00	9E 75	01 00	00 22	0A 00	
		NTSC	BE EF 03 06 00	FE 71	01 00	00 22	04 00	
		PAL	BE EF 03 06 00	6E 70	01 00	00 22	05 00	
		SECAM	BE EF 03 06 00	6E 75	01 00	00 22	09 00	
		NTSC 4.43	BE EF 03 06 00	5E 72	01 00	00 22	02 00	
		M-PAL	BE EF 03 06 00	FE 74	01 00	00 22	08 00	
	N-PAL	BE EF 03 06 00	0E 71	01 00	00 22	07 00		
Get	BE EF 03 06 00	0D 73	02 00	00 22	00 00			
HDTV	Set	1080i	BE EF 03 06 00	F2 73	01 00	05 22	00 00	
		1035i	BE EF 03 06 00	62 72	01 00	05 22	01 00	
	Get	BE EF 03 06 00	C1 73	02 00	05 22	00 00		
Sync on G	Set	off	BE EF 03 06 00	CB D0	01 00	08 30	01 00	
		on	BE EF 03 06 00	5B D1	01 00	08 30	00 00	
	Get	BE EF 03 06 00	68 D1	02 00	08 30	00 00		
WHISPER	Set	NORMAL	BE EF 03 06 00	3B 23	01 00	00 33	00 00	
		WHISPER	BE EF 03 06 00	AB 22	01 00	00 33	01 00	
	Get	BE EF 03 06 00	08 23	02 00	00 33	00 00		
GAMMA	Set	NORMAL	BE EF 03 06 00	C7 F0	01 00	A1 30	00 00	
		CINEMA	BE EF 03 06 00	57 F1	01 00	A1 30	01 00	
		DYNAMIC	BE EF 03 06 00	A7 F1	01 00	A1 30	02 00	
	Get	BE EF 03 06 00	F4 F0	02 00	A1 30	00 00		
Over Scan	Set	Large	BE EF 03 06 00	C2 71	01 00	09 22	02 00	
		Middle	BE EF 03 06 00	32 71	01 00	09 22	01 00	
		Small	BE EF 03 06 00	A2 70	01 00	09 22	00 00	
	Get	BE EF 03 06 00	91 70	02 00	09 22	00 00		
MyScreen Size	Set	Full	BE EF 03 06 00	43 D6	01 00	12 30	00 00	
		X1	BE EF 03 06 00	D3 D7	01 00	12 30	01 00	
	Get	BE EF 03 06 00	70 D6	02 00	12 30	03 00		
MyScreen Lock	Set	off	BE EF 03 06 00	3B EF	01 00	C0 30	00 00	
		on	BE EF 03 06 00	AB EE	01 00	C0 30	01 00	
	Get	BE EF 03 06 00	08 EF	02 00	C0 30	00 00		
Lamp Time	Get	BE EF 03 06 00	C2 FF	02 00	90 10	00 00		
Filter Time	Get	BE EF 03 06 00	C2 F0	02 00	A0 10	00 00		

# REGULATORY NOTICES

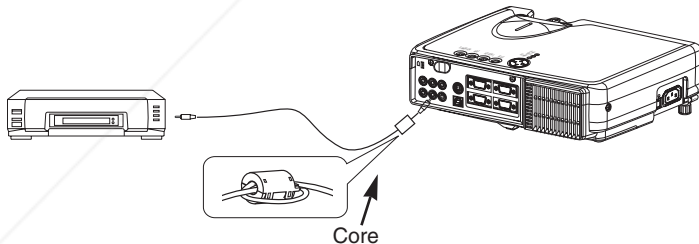
## FCC Statement Warning

**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:

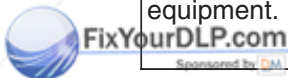
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**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.



**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.

Discount Electronics (800) 281-8860  
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

# HITACHI

## Hitachi America, Ltd.

Computer Division 2000 Sierra Point Parkway,  
MS760 Brisbane, CA 94005-1835  
Tel: +1-800-225-1741 Fax: +1-650-244-7776  
www.hitachi.com/lcd.

## Hitachi Canada, Ltd.

6740 Campobello Road, Mississauga, Ontario  
L5N2L8, Canada  
Tel: +1-905-821-4545 Fax: +1-905-821-1101

## Hitachi Home Electronics (Europe), Ltd.

Dukes Meadow, Millboard Road, Bourne End,  
Buckinghamshire SL8 5XF UK  
Tel: +44-162-864-3000 Fax: +44-162-864-3400

## Hitachi Home Electronics Europe Ltd

426 Bergensesteenweg, 1500 Halle, Belgium  
Tel: +32-2-363-9901 Fax: +34-2-363-9900

## Hitachi Home Electronics Europe Ltd

Gewerbepark, Hintermattlistr, Postfach, 5506  
Magenwil, Switzerland  
Tel: +41-62-889-8011 Fax: +41-62-896-4771

## Hitachi Europe GmbH

Business Systems Division  
Via T. Gulli. 39, 20147 Milano, Italy  
Tel: +39-2-487861 Fax: +39-2-48786322

## Hitachi Sales Europe GmbH

Business Systems Division  
Am Seestern 18, 40547 Dusseldorf, Germany  
Tel: +49-211-529-1551 Fax: +49-211-529-1594

## Hitachi Business Systems (Nordic)

Brugata 14, N-0184 Oslo, Norway  
Tel: +47-2205-9060 Fax: +47-2205-9061

## Hitachi Business Systems (Nordic)

Domnarvsgatan 29, Lunda, Box 62, S-163 91  
Spanga, Sweden  
Tel: +46-8-621-8260 Fax: +46-8-761-6250

## Hitachi Business Systems (Nordic)

Kuldysen 13, DK-2630 Tåstrup, Denmark  
Tel: +45-43-99-9200 Fax: +45-43-99-9392

## Hitachi Business Systems (Nordic)

Tapiolan Keskustorni 11 Krs. Fin-02100 Espoo,  
Finland

Tel: +358-9-455-2152

## Hitachi France

Immeuble, 'Ariane', 18 Rue Grange Dame Rose,  
B.P. 134, 78148 Velizy, Cedex, France  
Tel: +33-1-34630542 Fax: +33-1-34650761

## Hitachi Sales Iberica S A

Gran Via Carlos 111, 101, 1-1, 08028 Barcelona,  
Spain  
Tel: +34-3-330-8652 Fax: +34-3-339-7839

## Hitachi Home Electronics Asia, (S) Pte Ltd.

16 Collyer Quay #20-00 Hitachi Tower Singapore  
049318, Singapore  
Tel: +65-536-2520 Fax: +65-536-2521

## Hitachi Sales (Malaysia) Sdn. Bhd.

Wisma Hitachi, No.2, Lorong 13/6A, 46200  
Petaling  
Jaya, Selangor Darul Ehsan, Malaysia  
Tel: +60-3-7573455 Fax: +60-3-7556090

## Hitachi Sales (Thailand), Ltd.

994,996 Soi Thonglor, Sukhumvit 55 Road,  
Klongton,  
Klongtoey, Bangkok 10110, Thailand  
Tel: +66-2-381-8381 Fax: +66-2-381-9520

## Hitachi (Hong Kong), Ltd.

8th Floor Park-in Commercial Centre, No.56,  
Dundas  
Street, Kowloon Bay, Kowloon, Hong Kong  
Tel: +852-2-7804351 Fax: +852-2-7804915

## Hitachi Sales Corp. of Taiwan.

2nd Floor, No.65, Nanking East Road, Section 3,  
Taipei, Taiwan  
Tel: +886-2-516-0500 Fax: +886-2-516-1501

## Hitachi Australia Ltd.

13-15 Lyonpark Road, North Ryde NSW 2113,  
Australia  
Tel: +61-2-9888-4100 Fax: +61-2-9888-4144

## Hitachi, Ltd.

15-12, Nishi Simbashi 2-chome, Minato-ku, Tokyo,  
105 Japan  
Tel: +81-3-3502-2111 Fax: +81-3-3506-1440



Fix Your Problem

Sponsored by CM

Discount Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



\*QR57451\*

Printed in Japan



# Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdlp.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdlp.com>

Video Guides: <http://www.fixyourdlp.com/guides>

User Forums: <http://www.fixyourdlp.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdlp.com/counterfeits>

## Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



**FixYourDLP.com**

Sponsored by 