

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

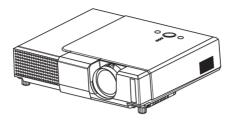
Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com



Projector

ED-S3350/ED-X3400/ED-X3450 User's Manual – Operating Guide



Thank you for purchasing this projector.

▲WARNING ► Before using, read the "User's Manual - Safety Guide" and these manuals to ensure correct usage through understanding. After reading, store them in a safe place for future reference.

About this manual

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

- **▲WARNING** This symbol indicates information that , if ignored, could possibly result in personal injury or even death due to incorrect handling.
- ▲ CAUTION This symbol indicates information that , if ignored, could result possibly in personal injury or physical damage due to incorrect handling.
- Please refer to the pages written following this symbol.

 $\ensuremath{\textbf{NOTE}}$ $\ensuremath{\bullet}$ The information in this manual is subject to chance without notice.

- The manufacture 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 acknowledgment

- VGA and XGA are registered trademarks of the International Business Machines Corporation.
- Apple and Mac are registered trademarks of the Apple Computer, Inc.
- FIXTES A and SVGA are trademarks of the Video Electronics Standard Association.
- Windows is a registered trademark of the Microsoft Corporation.
- Internet Explorer is a trademark of the Microsoft Corporation.
 All other trademarks are the property of their respective owners.

	<u> </u>	_1	_1_
	Cor		வுக
_		ᄪᄺᆓ	

About this manual 1	PICTURE Menu
Contents 2	Bright, Contrast, Gamma, Color temp,
Projector features 3	Color, Tint, Sharpness, Progressive,
Preparations 3	My memory
Part names 4	IMAGE Menu
Projector 4	position, H. phase, H. size, Auto adjust
Controls	INPUT Menu
Remote control 5	Color space, Component, Video format,
Setting up 6	Frame lock, Information
Arrangement	SETUP Menu
Adjusting the projector's elevator 8	Keystone, Whisper, Mirror, Volume
About the filter cover for bottom-up use 9	SCREEN Menu
Connecting your devices 10	Language, Menu position, OSD bright,
Connecting power supply 13	Blank, Start up, MyScreen,
Remote control	MyScreen lock, Message
Putting batteries	OPTION Menu
Using the remote control 15	Search, Auto off, Lamp time, Filter time, Service
Power on/off	
Turning on the power	Maintenance
Operating	Air filter
Adjusting the volume	Other care
Temporarily muting the sound 17	Troubleshooting 42
Selecting an input signal 17	Related messages
Searching an input signal 18	Regarding the indicator lamps 44
Selecting the aspect ratio 18	Phenomena that may easily be
Adjusting the zoom and focus 18	mistaken for machine defects 46
Using the automatic adjustment feature . 19	Warranty and after-service 48
Adjusting the position	Specifications 48
Using the magnify feature 20	
Freezing the screen	
Flemporarity blanking the screen 20	
Operating the computer screen 21	1
Multifunctional settings 22	COM (800) 281-8860 ECTOR LAMPS AND ACCESSORIES
Using the menu function	ECTOR LAMPS AND ACCESSORIES
EASY Menu23	
Aspect, Keystone, Mode, Bright,	
Contrast, Color, Tint, Sharpness, Whisper, Mirror, Reset, Filter time,	
Language, Go to advanced menu	
_agaago, oo to aavanooa mona	

Projector features

This projector is used to project various computer signals as well as NTSC / PAL / SECAM video signals onto a screen. It requires just a little space for installation and gets a large image from short distance.

- High Brightness
 Newly developed 165W UHB (Ultra High Brightness) lamp gives you a higher brightness image on a screen. The image can be still kept as bright and clean enough for use in bright rooms.
- Low Noise
 WHISPER mode is equipped for reducing acoustic noise to realize quieter
 operation. It is perfect for use in low luminance rooms where low noise is more
 important than brightness.
- O Rich Connectivity This projector has a variety of I/O ports. It can be easily connected to many signal sources like PC, DVD and so on. The rich connectivity provides you more options to make your presentation impressive.
- Compact Body
 Even with its many features, this projector is extremely compact and slim, which gives you more flexibility and usability to use it where you want.

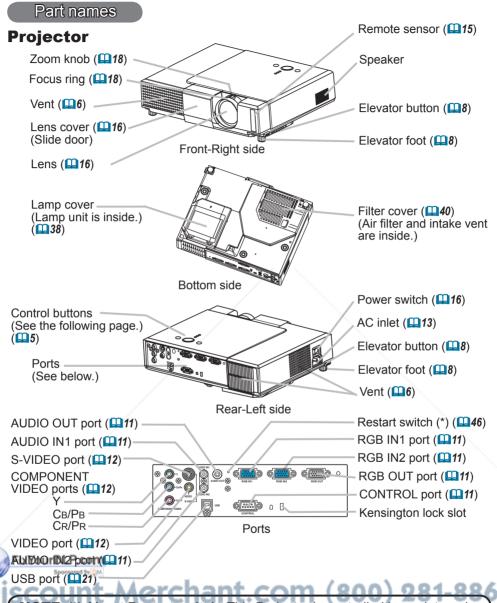
Preparations

About contents of package

Please see the "Contents of package" of the "User's manual - Quick guide". Your projector should come with the items shown there. Contact immediately your dealer if anything is missing.

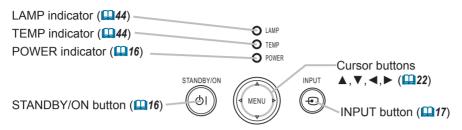
NOTE • Keep the original packing materials for future reshipment. For moving the projector, be sure to use the original packing material. Use special caution for the lens part.



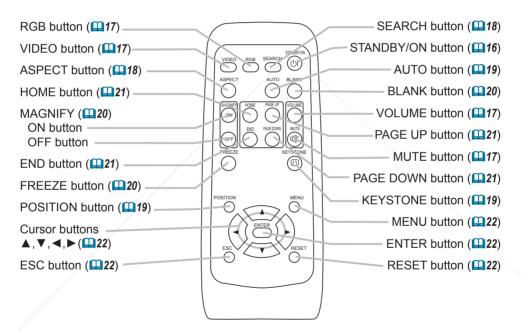


NOTE (*) About Restart switch: This Projector is controlled by an internal microprocessor. Under certain exceptional circumstances, the projector may not operate correctly and the microprocessor will need to be reset. In such a case, please push the Restart switch by using a cocktail stick or similar and before turning on again, make the projector cool down at least 10 minutes without operating. Only push the Restart switch in these exceptional instances.

Control buttons



Remote control





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

Setting up

▲WARNING ► Place the projector in a stable position horizontally. A fall or a turnover could cause an injury and/or damage to the projector. Then using damaged projector could result in a fire and/or an electric shock.

- Don't place the projector on an unstable, slant or vibrant surface such as a wobbly or inclined stand.
- Do not place the projector in the side/front/rear-up position, except care of the air filter.
- For the projector installed bottom-up, use the accessory filter cover for bottom-up use. And in the case of a ceiling installation or the like, contact your dealer before installation.
- ▶ Place the projection in a cool place, and pay attention enough to ventilation. The high temperature of the projector could cause a fire, a burn and/or malfunction to the projector.
- Don't stop up, block and cover the projector's vents.
- Keep a space of 30 cm or more between the sides and other objects such as walls.
- Don't place the projector on a metallic thing or anything weak in heat.
- · Don't place the projector on a carpet, cushion or bedding.
- Don't place the projector in direct sunlight or near a hot object such as heater.
- Put nothing about lens and vents of the projector. Put nothing on the projector.
- Put nothing that is sucked or sticks to the bottom of projector. This projector has some intake vents also on the bottom.
- ▶ Do not place the projector on the place that gets wet. Damping the projector or inserting liquid in the projector could cause a fire, an electric shock and/or malfunction to the projector.
- Don't place the projector in a bathroom or the outdoors.
- Put nothing containing the liquid near the projector.
- ▲ CAUTION ► Avoid a smoky, humid or dusty place. Placing the projector in such place could cause a fire, an electric shock and/or malfunction to the projector.
- Don't place the projector near a humidifier, a smoking space or a kitchen.
- Put nothing containing the liquid near the projector.
- ► Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.

FixYourDLP.com

Sponsored by D

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

Arrangement

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

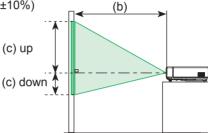
The values shown in the table are calculated for a full size screen: 800×600 for ED-S3350 / 1024×768 for ED-X3400, ED-X3450

- (a) The screen size (diagonal)
- (b) Distance from the projector to the screen (±10%)
- (c) The height of the screen (±10%)





(a) Screen size (b) Projection distance [m (inch)]



(c) Screen height [cm (inch)]

At 4:3 screen

00.00	, oi ooii								
(a) Scr	een size	(b) Pro	jection dis	stance [r	n (inch)]	(c) S	(c) Screen height [cm (inch		
[inch	n (m)]	m	in.	m	ax.	do	wn	ι	ıp
30	(8.0)	0.9	(35)	1.1	(42)	5	(2)	41	(16)
40	(1.0)	1.2	(47)	1.4	(56)	6	(2)	55	(22)
50	(1.3)	1.5	(59)	1.8	(71)	8	(3)	69	(27)
60	(1.5)	1.8	(72)	2.2	(85)	9	(4)	82	(32)
70	(1.8)	2.1	(84)	2.5	(100)	11	(4)	96	(38)
80	(2.0)	2.4	(96)	2.9	(114)	12	(5)	110	(43)
90	(2.3)	2.7	(108)	3.3	(129)	14	(5)	123	(49)
100	(2.5)	3.1	(120)	3.6	(143)	15	(6)	137	(54)
120	(3.0)	3.7	(144)	4.4	(172)	18	(7)	165	(65)
150	(3.8)	4.6	(181)	5.5	(216)	23	(9)	206	(81)
200	(5.1)	6.1	(242)	7.3	(288)	30	(12)	274	(108)
250	(6.4)	7.6	(303)	9.2	(361)	38	(15)	343	(135)
300	(7.6)	9.2	(363)	11.0	(433)	46	(18)	411	(162)

may

At 16:9 screen

finch (m)1

	[IIICI	1 (111)]		111.		ах.	<u> </u>	JVVII		uρ	
	30	(8.0)	1.0	(38)	1.2	(46)	-1	(0)	39	(15)	
	40	(1.0)	1.3	(52)	1.6	(62)	-2	(-1)	51	(20)	
	50	(1.3)	1.6	(65)	2.0	(77)	-2	(-1)	64	(25)	
FixYourD	LR600	m (1.5)	2.0	(78)	2.4	(93)	-2	(-1)	77	(30)	
Sp	onso 70 by	²⁴ (1.8)	2.3	(91)	2.8	(109)	-3	(-1)	90	(35)	
SCO	80	(2.0)	2.7	(105)	3.2	(125)	-3	(-1)	103	(41)	1-8860
300	90	(2.3)	3.0	(118)	3.6	(140)	-4	(-1)	116	(46)	. 0000
THE TR	100	(2.5)	3.3	(131)	4.0	(156)	R -4A	(-2)	129	(51)	SORIES
	120	(3.0)	4.0	(158)	4.8	(188)	-5	(-2)	154	(61)	
	150	(3.8)	5.0	(197)	6.0	(235)	-6	(-2)	193	(76)	
	200	(5.1)	6.7	(264)	8.0	(314)	-8	(-3)	257	(101)	
	250	(6.4)	8.4	(330)	10.0	(393)	-10	(-4)	322	(127)	
	300	(7.6)	10.1	(396)	12.0	(472)	-12	(-5)	386	(152)	

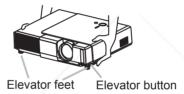
Adjusting the projector's elevator

△WARNING ► Do not adjust the projector's elevator during use or immediately after use. Handling while the projector is in a high temperature could cause a burn and/or malfunction to the projector.

▲ CAUTION ► If you press the elevator button 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.

► Except for inclining by the elevator feet adjustment, place the projector horizontally.

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. After making sure that the projector is cool adequately, press and hold in the elevator buttons while holding the projector.

 The elevator buttons and the elevator feet are on the both sides.
- 2. Raise or lower the projector to the desired height and the release the elevator buttons.

When you release the elevator buttons, the elevator feet will lock into position.

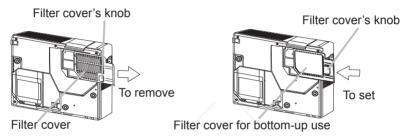
3. As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.



About the filter cover for bottom-up use

▲WARNING ► Do not replace the filter cover during use or immediately after use. While the projector connects with a power supply, or the projector is in a high temperature state, handling could cause an electric shock, a fire, a burn and/or malfunction to the projector.Before handling, make sure the power switch is off and the power cord is not plugged in, then wait at least 45 minutes.

When the projector is installed bottom up, please use the accessory filter cover for bottom-up use. It is higher than usual filter cover, to keep the space for intake ventilation. Please change in the following procedure.



- 1 After making sure that the projector is cool adequately, slowly turn the projector so that the lens-side is facing up. Please be careful for a projector not to fall. While the projector is placed lens-side up, hold the projector.
- 2. Putting a finger on the filter cover's knob, slide the filter cover in the direction of the arrow to remove it.
- Replace the filter cover for bottom-up use and snap it back into place.
- 4 Slowly turn the projector so that the top is facing up.



Connecting your devices

▲ CAUTION ► 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.

▶ Use the accessory cable or a designated-type cable for the connection. Some cables have to be used with core set. A too long cable may cause a certain picture degradation. Please consult with your dealer for details. For cables that have a core only at one end, connect the core to the projector.

▶ 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.

NOTE • 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.

- Secure the screws on the connectors and tighten.
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- For some RGB signal modes, the optional Mac adapter is necessary.
- When the image resolution is changed on a computer, depending on an input, automatic adjust function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or LCD monitors to change the resolution.

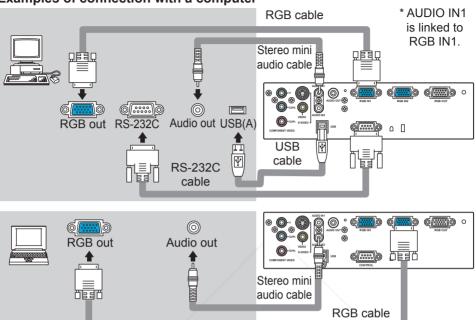
About Plug-and-Play capability

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

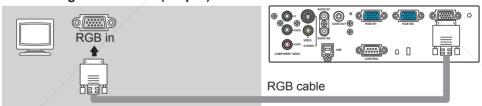
- · Please take advantage of this function by connecting the accessory RGB cable to the RGB IN1 port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
- Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.

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





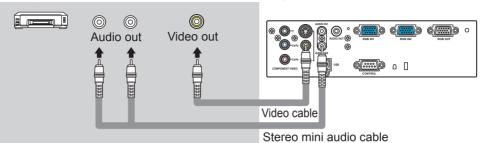
Connecting to a monitor (output)

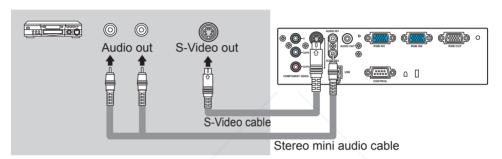


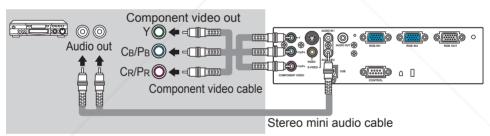
Connecting to a speaker with amplifier (output)

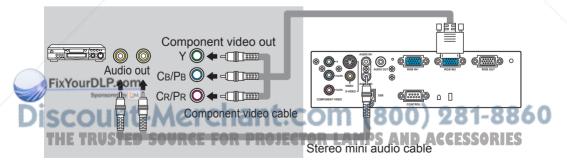


Examples of connection with a VCR/DVD player





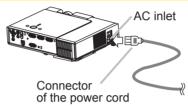




Connecting power supply

△WARNING ► Please use extra caution when connecting the power cord as incorrect or faulty connections may result in fire and/or electrical shock.

- Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
- Only plug the power cord into an outlet rated for use with the power cord's specified voltage range.
- Never modify the power cord. Never attempt to defeat the ground connection of the three-pronged plug.



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



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

Remote control

Putting batteries

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

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



- Remove the battery cover.
 - Slide back and remove the battery cover in the direction of the arrow.
- Insert the batteries.
- 2. Insert the patteries.
 Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control.
- Close the battery cover. Replace the battery cover in the direction of the arrow and snap it back into place.

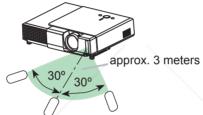


Using the remote control

△CAUTION ► Be careful in handling 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 lights, such as direct sunlight or light from an extremely close range (such as from an inverter fluorescent lamp), hit the projector's remote sensor, the remote control may cause to function. Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.

The remote control works with the projector's remote sensor.



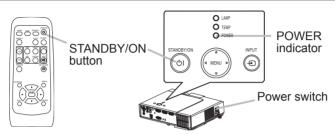
- The range of the remote sensor is 3 meters with a 60- degree range (30 degrees to the left and right of the remote sensor).
- Also a remote signal reflected in the screen etc. may be available. If it is difficult to send a remote signal to the sensor directly, please try.
- Since the remote control uses infrared light to send signals to the projector (Class1 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.



Power on/off

△WARNING ► When the power is on, a strong light is emitted. Do not look into the lens or vents of the projector.

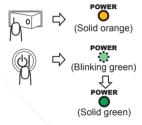
NOTE • Turn the power on/off in right order. Please power on the projector before the connected devices. Power off the projector after the connected devices.



Turning on the power

- 1. Make sure that the power cord is firmly and correctly connected to the projector and outlet.
- 2. Open the lens cover, and set the power switch to the ON position.

The power indicator will light to solid orange. Then wait several seconds because buttons may not function for these several seconds.



3. Press the STANDBY/ON button on the projector or remote control. The projector lamp will light up and the POWER indicator will begin blinking green. When the power is completely on, the indicator will stop blinking light green.

To display the picture, select an input signal according to the section "Selecting an input signal" (117).

Turning off the power

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

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

2. Press the STANDBY/ON button on the projector or remote control again while the message is visible.

The projector lamp will go off, and the POWER indicator will begin blinking orange.

Then the POWER indicator will stop blinking and light to solid orange when the lamp cooling is complete.

3. Make sure that the power indicator lights to solid orange, set the power switch to the OFF position. The POWER indicator will go off. Close the lens cover.







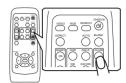


Operating

Adjusting the volume

- Press the VOLUME button on the remote control.
 A dialog will appear on the screen to aid you in adjusting the volume.
- 2. Use the cursor buttons $\blacktriangle/\blacktriangledown$ to adjust the volume.

To close the dialog and complete the operation, press the VOLUME button again. Even if you don't do anything, the dialog will automatically disappear after a few seconds.



Temporarily muting the sound

1 Press the MUTE button on the remote control.

A dialog will appear on the screen indicating that you have muted the sound.

To restore the sound, press the MUTE or VOLUME button.

Even if you don't do anything, the dialog will automatically disappear after a few seconds.

Selecting an input signal

1 Press the INPUT button on the projector.

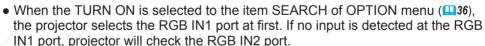
• Each time you press the button, the projector switches its input port as below.

RGB IN1 \rightarrow RGB IN2 \rightarrow COMPONENT VIDEO \rightarrow S-VIDEO \rightarrow VIDEO

1. Press the RGB button on the remote control to select an input port for RGB signal.

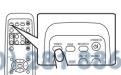
Each time you press the button, the projector switches its RGB input port as below.

RGB IN1 ←→ RGB IN2



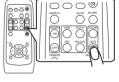


Each time you press the button, the projector switches its video input port as below.



TICOMPONENT SIDEO: SAVIDEO SEVIDEO LAMPS AND ACCESS

 When the TURN ON is selected to the item SEARCH of OPTION menu (436), the projector selects the COMPONENT VIDEO port at first. If no input is detected at the COMPONENT VIDEO port, projector will begin to check other ports.

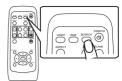




Searching an input signal

1 Press the SEARCH button on the remote control.

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



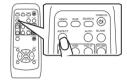
Then when an input is found, the projector will stop searching and display the image. If no signal is found, the projector will return to the state selected before the operation.

RGB IN1 → RGB IN2 → COMPONENT VIDEO → S-VIDEO → VIDEO

Selecting an aspect ratio

1 Press the ASPECT button on the remote control.

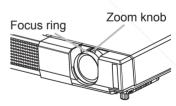
Each time you press the button, the projector switches the mode for aspect ratio in turn.



- The NORMAL mode keeps the original aspect ratio of the signal.
- At a HDTV signal of 1125i (1080i) or 750p (720p) of COMPONENT VIDEO input, only 16:9 mode can be selected.
- Performing the automatic adjustment initializes the aspect ratio setting.

Adjusting the zoom and focus

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





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

Using the automatic adjustment feature

1 Press the AUTO button on the remote control.

○ At a RGB signal

The vertical position, the horizontal position, the clock phase and horizontal size will be automatically adjusted.

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

O At a video signal

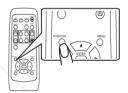
The video format best suited for the respective input signal will be selected automatically.

This function is available only when the AUTO mode is selected to the item VIDEO FORMAT of the INPUT menu ($\square 30$). For a component video signal, the signal type is identified automatically independently of this function.

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

Adjusting the position

- 1. Press the POSITION button on the remote control. The "POSITION" indication will appear on the screen.
- 2. Use the cursor buttons ▲/▼/◄/▶ to adjust the picture position.



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

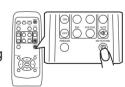
To complete this operation, press the POSITION button again. Even if you don't do anything, the dialog will automatically disappear after a few seconds.

• When this function is performed at a video signal, a certain extra such as a line may appear outside a picture.

Correcting the keystone distortions

Press the KEYSTONE button on the remote control.

A dialog will appear on the screen to aid you in correcting the distortion.



Oxy Use the cursor buttons **▲**/▼ to correct the distortion.

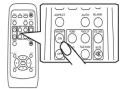
To close the dialog and complete this operation, press the KEYSTONE button again. Even if you don't do anything, the dialog will automatically disappear lafter a few seconds. RCE FOR PROJECTOR LAMPS AND ACCESSORIES

- This function may not be work well with some input.
- The adjustable range for correcting will vary among inputs.



Using the magnify feature

1 Press the ON button of MAGNIFY on the remote control. The "MAGNIFY" indication will appear on the screen (although the indication will disappear after several seconds with no operation.), and the projector will enter the MAGNIFY mode.



Use the cursor buttons ▲/▼ to adjust the zoom level.

To move the zoom area, press the POSITION button in the MAGNIFY mode, then use the cursor buttons $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to move the area. And to finalize the zoom area, press the POSITION button again.

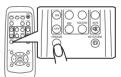
To exit the MAGNIFY mode and restore the screen to normal, press the OFF button of MAGNIFY on the remote control.

- The projector automatically exits the MAGNIFY mode when the input signal changes, or when an operation of changing the display condition (automatic adjustment, etc.) is executed.
- Although in the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exit the MAGNIFY mode.

Freezing the screen

1 Press the FREEZE button on the remote control.

The "FREEZE" indication will appear on the screen, and the projector will enter the FREEZE mode.



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

- The projector automatically exits the FREEZE mode when the input signal changes, or when one of the projector's buttons or the remote control buttons of STANDBY/ON, SEARCH, RGB, VIDEO, BLANK, AUTO, ASPECT, VOLUME, MUTE, KEYSTONE, POSITION and MENU is pressed.
- If the projector continues projecting a still image for long time, the LCD panel might possibly be printed. Do not leave the projector in FREEZE mode for too long.

Temporarily blanking the screen

ixYPress the BLANK button on the remote control.

The blank screen will be displayed instead of the screen of input signal. Please refer to the item BLANK of section SCREEN menu (233).



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

 The projector automatically returns to the input signal screen when the input signal changes, or when one of the projector's buttons or the remote control buttons are pressed.



Operating the computer screen

▲CAUTION ► Mistaken use of the mouse/keyboard control could damage your equipment.

- While using this function, please connect only with a computer.
- Before connecting, read the manuals of the computer you will connect.

NOTE • It may not be possible to control notebook PC, and other computers with built-in pointing device (e.g. track ball), using this remote control. In this case, before connecting go into BIOS (system setup) and select external mouse, and disable the pointing device. 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 be used only for the functions listed below. 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), and while adjusting the volume and display, correcting for trapezoidal distortion, zooming in on the screen, using the BLANK function, or displaying the menu screen.

USB mouse and keyboard control

1 Connect the projector's USB port to the computer via the mouse cable.

Available function	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

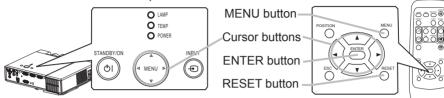


SCOUNT-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Multifunctional settings

Using the menu function

This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION and EASY MENU. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.



1. Press the MENU button on the remote control or one of the cursor buttons on the projector.

The advanced MENU or EASY MENU will appear.

- 9 Use the cursor buttons ▲/▼ to select a menu.
 - O At the EASY MENU If you want to change it to the advanced MENU, select the "Go to Advanced Menu".
 - O At the advanced MENU
 Select a menu of PICTURE, IMAGE, INPUT, SETUP,
 SCREEN or OPTION.
 If you want to change it to the EASY MENU, select the
 EASY MENU.
- Then press the cursor button ► on the projector or remote control, or the ENTER button on the remote control to progress.

The display of the selected menu will be active.

4. Use the cursor buttons ▲/▼ to select an item to operate.
Then press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress.
The operation menu of the selected item will appear.

Use the cursor buttons ▲/▼ to operate the item.

FixYWhen yourwant to reset the operation, press the RESET button on the remote control during the operation. Note that items whose functions are performed simultaneously with operation (ex. LANGUAGE, H PHASE etc.) aren't reset.

When you want to return to the previous display, press the cursor button ◀ on the projector or remote control, or the ESC button on the remote control.

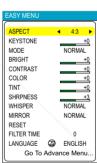
6. Press the MENU button on the remote control again to close the menu and complete this operation.

Even if you don't do anything, the dialog will automatically disappear after about

10 seconds.



Advanced MENU

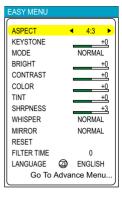


EASY MENU

EASY Menu

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

Select an item using the cursor buttons $\blacktriangle/\blacktriangledown$ on the projector or remote control. Then perform it referring to the following table.



Item	Description
ASPECT	Using the buttons ◀/▶ switches the mode for aspect ratio. See the item ASPECT of section IMAGE menu (♠28).
KEYSTONE	Using the buttons ◀/▶ corrects the keystone distortion. See the item KEYSTONE of section SETUP menu (☐32).
	Using the buttons ◀/▶ switches the mode of picture type. The modes of picture type are combinations of a mode of GAMMA and a mode of COLOR TEMP. Choose a suitable mode according to the projected source.
	NORMAL ⇔ CINEMA ⇔ DYNAMIC ↑ ↑
MODE	NORMAL: (COLOR TEMP = MIDDLE) + (GAMMA = #1 DEFAULT) CINEMA: (COLOR TEMP = LOW) + (GAMMA = #2 DEFAULT) DYNAMIC: (COLOR TEMP = HIGH) + (GAMMA = #3 DEFAULT)
	• When the combination of GAMMA and COLOR TEMP differs from pre-assigned modes above, the display on the menu for the MODE is "CUSTOM". Please refer to the items GAMMA (♠25) and COLOR TEMP (♠26) of PICTURE menu.
BRIGHT	Using the buttons ◀/▶ adjusts the brightness. See the item BRIGHT of section PICTURE menu (△25).
CONTRAST	Using the buttons ◄/▶ adjusts the contrast. See the item CONTRAST of section PICTURE menu (□ 25).
FixYourDLP.com CQLQR	Using the buttons ◀/▶ adjusts the strength of whole color. See the item COLOR of section PICTURE menu (□26).
SCO _{TINT} THE TRUSTED S	Using the buttons ✓/ adjusts the tint. See the item TINT of section PICTURE menu (\$\mathbb{Q}\$26).

Multifunctional settings

EASY Menu (continued)

Item	Description
SHARPNESS	Using the buttons ◀/▶ adjusts the sharpness. See the item SHARPNESS of section PICTURE menu (♠26).
WHISPER	Using the buttons ◀/▶ turns off/on the whisper mode. See the item WHISPER of section SETUP menu (☐32).
MIRROR	Using the buttons ◀/▶ switches the mode for mirror status. See the item MIRROR of section SETUP menu (□32).
RESET	Performing this item resets all of the items of EASY MENU except FILTER TIME and LANGUAGE. A dialog is displayed to make sure. Selecting RESET using the button A performs reset.
FILTER TIME	Performing this item resets the filter timer which counts use time of air filter. A dialog is displayed to make sure. Selecting RESET using the button ▲ performs reset. See the item FILTER TIME of section OPTION menu (□37).
LANGUAGE	Select the LANGUAGE to toggle the menu language. Refer to description of LANGUAGE in the SCREEN menu (33).
Go To Advanced Menu	Select the "Go To Advanced Menu" to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN or OPTION.



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

PICTURE Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress. Then perform it referring to the following table.

MENU [RGB]		③:SELECT
PICTURE IMAGE INPUT SETUP	BRIGHT CONTRAST GAMMA COLOR TEMP	+0 +0 #1 DEFAULT
SCREEN OPTION EASY MENU	COLOR TINT SHARPNESS PROGRESSIVE	+0 +0 +0 +0 TURN OFF
	MY MEMORY	

Item	Description
BRIGHT	Using the buttons ▲/▼ adjusts the brightness. : Light ⇔ Dark
CONTRAST	Using the buttons ▲/▼ adjusts the contrast. : Strong ⇔ Weak
	Using the buttons ▲/▼ switches the GAMMA mode.
	#1 DEFAULT \Leftrightarrow #1 CUSTOM \Leftrightarrow #2 DEFAULT
	#3 CUŠTOM ⇔ #3 DEFAULT ⇔ #2 CUŠTOM
	To adjust #1 CUSTOM, #2 CUSTOM or #3 CUSTOM
	Selecting a mode of CUSTOM and then pressing the button ▶ or the ENTER button displays a dialog to aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones.
GAMMA	Choose an item using the buttons , and adjust the level using the buttons ▲/▼.
	You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below.
	No pattern ⇒ Gray scale of 9 steps ==
	î——Ramp ⇔ Gray scale of 15 steps
FixYourDLP.com Sponsored by DM	Eight of equalizing bars corresponds to eight of tone level of test pattern except the darkest in the left end. If you want to adjust the 2nd tone from left end on the test pattern, use the equalizing adjustment bar "1". The darkest tone at the left end of the test
scount-	pattern cannot be controlled with any of equalizing adjustment bar.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

PICTURE Menu (continued)

Item	Description
COLOR TEMP	Using the buttons ▲/▼ switches the mode of color temperature. HIGH ⇔ MIDDLE ⇔ LOW ⇔ CUSTOM
	Selecting the CUSTOM and then pressing the button ▶ or the ENTER button displays a dialog to aid you in adjusting the OFFSET and/or GAIN of CUSTOM mode. OFFSET adjustments change the color intensity on the whole tones of the test pattern. GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern. Choose an item using the buttons ◄/▶, and adjust the level using the buttons ▲/▼.
	You can display a test pattern for checking the effect of your adjustment by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as below. No pattern Gray scale of 9 steps
	î—— Ramp ⇔ Gray scale of 15 steps
COLOR	Using the buttons ▲/▼ adjusts the strength of whole color. Strong ⇔ Weak • This item can be selected only at a video signal.
TINT	Using the buttons ▲/▼ adjusts the tint. Green ⇔ Red
	This item can be selected only at a video signal except for SECAM.
SHARPNESS	Using the buttons ▲/▼ adjusts the sharpness. Strong ⇔ Weak



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

PICTURE Menu (continued)

Item	Description
	Using the buttons ▲/▼ switches the progressive mode. TV ⇔ FILM ⇔ TURN OFF This for the progressive mode.
PROGRESSIVE	This function performs only at an interlaced signal of a VIDEO input, a S-VIDEO input or a COMPONENT VIDEO input of 525i (480i) or 625i (576i) signal.
	When the TV or FILM is selected, the screen image will be crisper. The FILM mode is adaptable to the 2-3 Pull-Down system to the conversion. But these may cause a certain defect (for example, jagged line) of the picture at a quick moving object. In such a case, please select the TURN OFF, even though the screen image may lose the crisp.
	Selecting a mode of MY MEMORY using the buttons ▲/▼ and then pressing the button ▶ or the ENTER button performs each function. □ LOAD1 ⇔ LOAD2 ⇔ LOAD3 ⇔ LOAD4 ←
	⇒SAVE4 ⇔SAVE3 ⇔ SAVE2 ⇔ SAVE1 ←
MY MEMORY	This projector has 4 numbered memories for adjustment data. Performing the LOAD1, LOAD2, LOAD3 or LOAD4 loads the data on the memory whose number corresponds with the command's number, and adjusts the picture automatically depending on the data. Performing the SAVE1, SAVE2, SAVE3 or SAVE4 puts the current adjustment data on the memory whose number corresponds with the command's number.



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

IMAGE Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress. Then perform it referring to the following table.



Item	Description
	Using the buttons ▲/▼ switches the mode for aspect ratio. At a RGB signal 4:3 ⇔ 16:9 ⇔ NORMAL ↑ At a video signal / no signal
ASPECT	4:3 ⇔ 16:9 ⇔ SMALL ↑ The NORMAL mode keeps the original aspect ratio of the signal.
	 At a HDTV signal of 1125i (1080i) or 750p (720p) of COMPONENT VIDEO input, this item can't be selected. Performing the automatic adjustment initializes the aspect ratio setting.
OVER SCAN	Using the buttons ▲/▼ adjusts the over-scan ratio. Large (It reduces picture) ⇔ Small (It magnifies picture) • This item can be selected only at a video signal. • When this adjustment is too large, certain degradation may appear at the frame area of the picture. In such a case, please adjust small.
V POSITION	Using the buttons ▲/▼ adjusts the vertical position. Up ⇔ Down
H POSITION	Using the buttons ▲/▼ adjusts the horizontal position. Left ⇔ Right
FixYellPbl4S55m	Using the buttons ▲/▼ adjusts the horizontal phase to eliminate flicker. Right ⇔ Left • This item can be selected only at a RGB signal or a component
scount-	video signal. ant.com (800) 281-88

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

IMAGE Menu (continued)

Item	Description
H SIZE	Using the buttons ▲/▼ adjusts the horizontal size. Large ⇔ Small
	This item can be selected only at a RGB signal.
	When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment pressing the RESET button on the remote control during this operation.
AUTO ADJUST	Selecting this item performs the automatic adjustment feature.
	At a RGB signal The vertical position, the horizontal position, the clock phase and horizontal size will be automatically adjusted. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.
	At a video signal The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO mode is selected to the item VIDEO FORMAT of INPUT menu. For a component video signal, the signal type is identified automatically independently of this function.
	The automatic adjustment operation requires approximately 10 seconds. Also please note that it may not function correctly with some input.

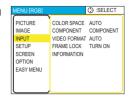


iscount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

INPUT Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress. Then perform it referring to the following table.



Item	Description
	Using the buttons ▲/▼ switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 ↑
COLOR SPACE	 This item can be selected only at a RGB signal or a component video signal. The AUTO mode automatically selects the optimum mode. The AUTO operation may not work well at some signals. In such a
	case, it might be good to select the SMPTE240 or the REC709. Using the buttons ▲/▼ switches the function of COMPONENT
COMPONENT	VIDEO port. COMPONENT ⇔ SCART RGB When the SCART RGB is selected, the COMPONENT VIDEO port function as a port for a SCART RGB signal input. A SCART adapter and SCART cable realize a SCART RGB input to the projector. For
VIDEO FORMAT	details, ask your dealer. Using the buttons ▲/▼ switches the mode for video format. AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ♣ N-PAL ⇔ M-PAL ⇔ NTSC4.43 ♣ • This item performs only at a video signal from the VIDEO port or the S-VIDEO port. For a component video signal, the signal type is identified automatically independently of this function. • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well at some signals. If the picture becomes unstable (ex. an irregular picture, a color lack),
FIXYOURDLP.com Sponsored by DM SCOUNT- THE TRUSTED S FRAME LOCK	please select the mode depending on the input signal. Using the buttons ▲/▼ turns the frame lock function on/off. TURN ON ⇔ TURN OFF • This item performs only at a RGB signal with vertical frequency of 50 to 60 Hz for the models Ed-X3400 and ED-X3450, or 50 to 72Hz for the model ED-S3350. • When the TURN ON is selected, a moving picture is displayed
	 more smoothly. This function may cause a certain degradation of the picture. In such a case, please select the TURN OFF.

INPUT Menu (continued)

Item	Description
	Selecting this item displays a dialog titled "INPUT INFORMATION". It shows the information about the current input.
	◀ INPUT-INFORMATION RGB ■ INPUT-INFORMATION S-VIDEO 1024x768 g80.0 FRAME LOCK SECAM AUTO ◀ INPUT-INFORMATION COMPONENT STGI g80 SECAM AUTO SCART RGB
INFORMATION	• The "FRAME LOCK" message on the dialog means the frame lock function is working (30).
	• The "SCART RGB" message means the COMPONENT VIDEO port is working as a SCART RGB input port. Please refer to the item COMPONENT in this section. (\$\subset\$30\$)
	This item is can't be selected at no signal.



SETUP Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress. Then perform it referring to the following table.



Item	Description
	Using the buttons ▲/▼ corrects the keystone distortion.
KEYSTONE	Upper in the data ⇔ Lower in the data
	• The adjustable range of this function will vary with the type of input signal. At some signals, this function may not work well.
	• When the V:INVERT or the H&V:INVERT is selected under the item MIRROR, if the projector screen is inclined or if the projector is angled downward, this function may not work correctly.
	When the zoom adjustment is set to the TELE side, this correction may be excessive. This function should be used with zoom set to WIDE whenever possible.
WHISPER	Using the buttons ▲/▼ turns off/on the whisper mode.
	NORMAL ⇔ WHISPER
	When the WHISPER is selected, acoustic noise and screen brightness are reduced.
	Using the buttons ▲/▼ switches the mode for mirror status.
MIRROR	
	NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&V:INVERT
VOLUME	Using the buttons ▲/▼ adjusts the volume.
	High ⇔ Low



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

SCREEN Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress. Then perform it referring to the following table.



Item	Description
LANGUAGE	Using the buttons ▲/▼ switches the OSD (On Screen Display) language. PENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⇔ ITALIANO NORSK ⇔ NEDERLANDS ⇔ PORTUGUÊS ⇔ 日本語 ⇔中文 한글 ⇔ SVENSKA ⇔ РУССКИЙ ⇔ SUOMI ⇔ POLSKI ⇔ TÜRKÇE ᠳ
MENU POSITION	Using the buttons ▶ / ▲ / ▼ adjusts the menu position. To quit the operation, press the MENU button on the remote control or keep no operation for 10 seconds.</th
OSD BRIGHT	Using the buttons ▲/▼ switches the brightness level of the OSD (On Screen Display). Bright ⇔ Dark
	Using the buttons ▲/▼ switches the mode for the blank screen. The blank screen is the screen for the temporarily blanking feature (□20). It is displayed by pressing the BLANK button on the remote control. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK □ □ □
BLANK	MyScreen is the screen you can register a desired screen. ORIGINAL screen is the existing standard screen. BLUE, WHITE and BLACK are non-patterned (plain) screens in each color.
FixYourDLP.com	To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLACK screen after several minutes.
Sponsored by DM	• For the MyScreen, please refer to the item MyScreen (434).

ISCOUNT-MERCHANT.COM (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

SCREEN Menu (continued)

Item	Description
	Using the buttons ▲/▼ switches the mode for the start up screen. The start up screen is the screen displayed when no signal or an unsuitable signal is detected.
	MyScreen ⇔ ORIGINAL ⇔ TURN OFF ↑
START UP	MyScreen is the screen you can register a desired screen. ORIGINAL screen is the existing standard screen. When the TURN OFF is selected, the BLUE screen is used.
	To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLANK screen after several minutes. If also the BLANK screen is the MyScreen or ORIGINAL, it will change to the BLACK screen.
	• For the MyScreen, please refer to the item MyScreen below. About the BLUE, BLACK and BLANK screens, please refer to the item BLANK (33).
	This item functions for capturing the MyScreen of the blank screen and the start up screen. Please execute displaying the input including the picture you want to capture.
	Selecting this item displays a dialog titled "MyScreen". It will ask you if you start capturing the picture from the current screen. Please wait for the target picture to be displayed, and press the ENTER button on the remote control when the picture is display. The picture will freeze and the frame for capturing appears. To stop performing, press the RESET or ESC button on the remote control.
My Screen	2. Using the buttons ◀/►/▲/▼ adjust the frame position. Please move the frame to the position of the picture which you want to use.
	To start registration, press the ENTER button on the remote control. To restore the screen and return to the previous dialog, press the
FixYourDLP.com Sparsacred by	RESET or ESC button on the remote control. Registration takes several minutes. When the registration is completed, the registered screen and the message "MyScreen registration is finished." are displayed for several seconds. If the registration failed, the message "A capturing error has occurred.
SCOUNT-	Please try again." is displayed. Using the buttons ▲/▼ turns on/off the MyScreen lock function. UTURN ON B TURN OFFOR LAMPS AND AGGESSORIES
My Screen Lock	When the TURN ON is selected, the item MyScreen cannot be performed. Use this function for protecting the current MyScreen.

SCREEN Menu (continued)

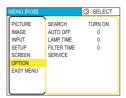
Item	Description
MESSAGE	Using the buttons ▲/▼ turns on/off the message function. TURN ON ⇔ TURN OFF When the TURN ON is selected, the following message function works. "AUTO IN PROGRESS" while automatically adjusting "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "Searching" while searching for an input signal "Detecting" when an input signal is detected The indication of the input signal by changing The indication of the aspect ration by changing



OPTION Menu

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

Select an item using the cursor buttons ▲/▼ on the projector or remote control, and press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to progress, except for the items LAMP TIME and FILTER TIME. Then perform it referring to the following table.



Item	Description
	Using the buttons ▲/▼ turns on/off the automatic signal search function. TURN ON ⇔ TURN OFF
SEARCH	When the TURN ON is selected, detecting no signal automatically cycles through input ports in order of following. Then when an input is found, the projector will stop searching and display the image.
	RGB IN1 RGB IN2 COMPONENT VIDEO S-VIDEO VIDEO
	Using the buttons ▲/▼ adjusts the time to count down to automatically turn the projector off.
	Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE)
AUTO OFF	AUTO OFF ENABLE 1 U
Acidon	When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with a no-signal or an unsuitable signal reaches at the set time, the projector lamp will go off and the power indicator begins blinking. Please refer to the section "Turning off the power" (116).
	The lamp time is the time counted after the last resetting. It is shown in the OPTION menu as the use time of the lamp. Pressing the RESET button on the remote control for about 3 seconds displays a dialog. To reset the lamp time, select the RESET using the button .
Fix YCANVIPLE NORTH	RESET ⇔ CANCEL
scount-	 Please reset the lamp time only when you have replaced the lamp, for correct messages about the lamp.
THE TRUSTED S	About the lamp replacement, please see the section "Lamp" (41 s 38, 39).

OPTION Menu (continued)

The filter time is the time counted after the last resetting. It is shown in the OPTION menu as the use time of the air filter. Pressing the RESET button on the remote control for about 3 seconds displays a dialog. To reset the filter time, select the RESET using the button ▲. RESET ⇔ CANCEL • Please reset the filter time only when you have cleaned or
replaced the air filter, for correct messages about the air filter.
$ullet$ About the caring the air filter, please see the section "Air filter" ($oldsymbol{\square}$ 40).
Selecting this item displays the SERVICE menu. Select an item using the buttons ▲/▼, and press the button ▶ or the ENTER button on the remote control to progress. FAN SPEED ⇔ GHOST ⇔ FACTORY RESET
FAN SPEED Using the buttons ▲/▼ switches the rotation speed of the cooling fans. The HIGH is the mode for use at highlands etc. Note that the projector is noisier when the HIGH is selected.
HIGH ⇔ NORMAL GHOST 1. Select a color element of ghost using the buttons 4/▶
 Select a color element of ghost using the buttons ◄/►. Adjust the selected element using the buttons ▲/▼ to disappear ghost.
FACTORY RESET Selecting RESET using the button ▲ performs this function. By this function, all the items in all of menu will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME and LANGUAGE are not reset.



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

Maintenance

Lamp

⚠ WARNING







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

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

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

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

For more information, call your dealer.



power

outlet

• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.

Disconnect • If the lamp should break (it will make a loud bang when it does), the plug ventilate the room well, and make sure not to breathe the gas that from the comes out of the projector vents, or get it in your eyes or mouth.

 Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently.
 Handling the lamp while hot can cause burns, as well as damaging the lamp.

Never unscrew except the appointed (marked by an arrow) screws.



• Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.

• Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.

FixYourDL Use only the lamp of the specified type.

If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.

Handle with care: jolting or scratching could cause the lamp bulb to burst during use. If the indicators or a message prompts you to replace the lamp (see the section "Related Messages" and "Regarding the indicator Lamps"), 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.





Lamp (continued)

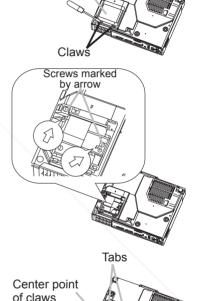
When the indicators or a message prompts you to replace the lamp, replace the lamp as soon as possible.

- 1. Turn the projector off, and unplug the power cord. Allow the lamp to cool for at least 45 minutes.
- 2. To prepare a new lamp, contact your dealer and tell the lamp type number = DT00671. If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

 Lamp cover

In the case of replacement by yourself,

- 3. After making sure that the projector has cooled adequately, slowly turn over the projector, so that the bottom is facing up.
- 4. Please unhook the claws of the lamp cover using a minus screwdriver or similar, and remove the lamp cover.
- 5. Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handles.
- 6. Insert the new lamp, and retighten firmly two screws that are loosened in the previous process to lock it in place.
- 7. Interlocking the 2 tabs of the lamp cover to the projector, position the lamp cover on the projector. Then push the center point of two claws to fix the lamp cover.
- 8. Slowly turn the projector so that the top is facing up.
- Turn the projector on, and reset the lamp time using the LAMP TIME function of OPTION menu (436).



Claws

NOTE • When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER 0hr." is displayed, complete the following **logication** 10 minutes of switching power on.

 Incorrectly resetting of the lamp timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Air filter

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

▶ Use only the air filter of the specified type. Do not use the projector with the air filter and filter cover removed.

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

△CAUTION ► Please replace the air filter when it is damaged or too soiled, and also when you replace the lamp.

When the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible. If the air filter becomes clogged by dust or the like, internal temperatures rise and the power may be automatically turned off for malfunction prevention.

- 1 Turn the projector off, and unplug the power cord.
 Allow the projector to cool for at least 45 minutes. And prepare a vacuum cleaner.
- 2. After making sure that the projector is cool adequately, slowly turn the projector so that the lens-side is facing up. Please be careful for a projector not to fall. While the projector is placed lens-side up, hold the projector.
- 3. Putting a finger on the filter cover's knob, slide the filter cover in the direction of the arrow to remove it.
- 4. Holding the air filter's knob, pull the air filter off.
- **5.** Apply a vacuum cleaner to the vent of the projector for the air filter. And then slowly turn the projector bottom up.
- 6. Apply a vacuum cleaner to the air filter and filter cover. Please replace the air filter when it is damaged or too soiled. To prepare a new air filter, contact your dealer and tell the air filter type number = **NJ09702**.



Filter cover's knob

Air filter's knob



filter type number = **NJ09702**.

An air filter of specified type will come even with the replacement lamp for this projector.

- Position the cleaned air filter or a new air filter into place, and push the points of "PUSH" word with claws to fix the air filter.
- Replace the filter cover and snap it back into place.
- 9. Slowly turn the projector so that the top is facing up.
 - 10. Turn the projector on, and reset the filter time using the FILTER TIMER IS function of OPTION menu (\$\text{\mathbb{Q}}37\).

NOTE • Incorrectly resetting of the filter timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

Other care

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

- ▶ Never try to care for the inside of the projector personally. Doing is so dangerous.
- ► Avoid wetting the projector or inserting liquids in the projector. It could result in a fire, an electric shock, and/or malfunction to the projector.
- Don't put a container containing water, cleaner or chemicals near the projector.
- Don't use aerosols or sprays.

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

- Do not use cleaner or chemicals other than those listed below.
- Do not polish or wipe with hard objects.

Inside of the projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your dealer about once every 2 years.

Caring for the lens

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

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

Caring for the cabinet and remote control

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

- ixYTUTH the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
- After making sure that the projector is cool adequately, lightly wipe with gauze the projector is cool adequately, lightly wipe with gauze of a soft cloth our certain projector lamps and Accessories of soiling is severe, dip soft cloth in water or a neutral cleaner dilute in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

Troubleshooting

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. If the same message is displayed after the treatment, or if a message other than the following appears, please contact your dealer or service company.

Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

minutes, it will be reappear	ed every time the power is turned on.
Message	Description
☼ CHANGE THE LAMP	The time the lamp timer has counted is approaching 2000 hours.
AFTER REPLACING LAMP, RESET THE LAMP TIMER.	Preparation of a new lamp, and an early lamp change is recommended. After you have change the lamp, please be sure to reset the lamp timer (\$\mathbb{Q}\$36\$).
☼ CHANGE THE LAMP	The time the lamp timer has counted is approaching 2000 hours, so a lamp change within ** hours is
AFTER REPLACING LAMP, RESET THE LAMP TIMER.	recommended. When lamp usage reaches 2000 hours, the power will automatically be turned off. Please change the lamp by
THE POWER WILL TURN OFF AFTER ** hr.	referring to the section "Lamp". After you have changed the lamp, please be sure to reset the lamp timer (\$\subset\$36).
⇔ CHANGE THE LAMP	As the time the lamp timer has counted has reached
AFTER REPLACING LAMP, RESET THE LAMP TIMER.	2000 hours, the power will soon be automatically turned off. Please immediately turn the power off, and change the lamp by referring to the section "Lamp". After changing the lamp,
THE POWER WILL TURN OFF AFTER 0 hr.	please be sure to reset the lamp timer (\$\mathbb{Q}_36\$).
NO INPUT IS DETECTED ON ***	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ON *** [H] *****kHz [V] *****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.
SCOUNT-MEI THE TRUSTED SOURCE CHECK THE AIR FLOW	The internal portion temperature is rising. Please turn the power OFF, and allow the unit to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again. Is there blockage of the air passage aperture? Is the air filter dirty? Does the peripheral temperature exceed 35°C?
	Does the peripheral temperature exceed 35°C? If the same indication is displayed after the treatment, please set

HIGH at the FAN SPEED of the item SERVICE of the OPTION menu.

Related messages (continued)

Message	Description		
CLEAN THE AIR FILTER	A note of precaution when cleaning the air filter.		
POWER OFF FIRST,	Please immediately turn the power OFF, and clean or		
THEN CLEAN THE AIR	change the air filter by referring to the "Air Filter" section of		
FILTER.	this manual. After you have cleaned or changed the air filter,		
AFTER CLEANING THE AIR	please be sure to reset the filter timer (\$\mathbb{Q}\$37).		
FILTER,			
RESET THE FILTER TIMER.			

NOTE • A lamp has 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 projector is equipped with an automatic shut-down function, such that the power will automatically be turned off when lamp usage time has reached 2000 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 projector.



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

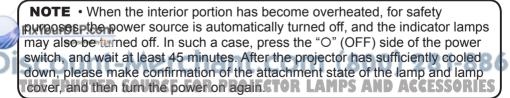
Regarding the indicator lamps

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. If the same indication is displayed after the treatment, or if an indication other than the following is displayed, please contact your dealer or service company.

POWER indicator	LAMP indicator	TEMP indicator	Description		
Lighting In Orange	Turned off	Turned off	The projector is in a standby state. Please refer to the section "Power On/Off".		
Blinking In Green	Turned off	Turned off	The projector is warming up. Please wait.		
Lighting In Green	Turned off	Turned off	The projector is in an on state. Ordinary operations may be performed.		
Blinking In Orange	Turned off	Turned off	The projector is cooling down. Please wait.		
Blinking In Red	(discre- tionary)	(discre- tionary)	The projector is cooling down. A certain error has been detected. Please wait until the POWER indicator finishes blink, and then perform the proper response measure using the item descriptions below as reference.		
Blinking In Red or Lighting In Red	Lighting In Red	Turned off	The lamp does not light, and there is a possibility that interior portion has become heated. Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. Is there blockage of the air passage aperture? Is the air filter dirty? Does the peripheral temperature exceed 35°C? If the same indication is displayed after the treatment, please change the lamp by referring to the section "Lamp".		
FixYourDLF Blinking In Red Lighting In Red	Blinking	Turned UR off F	The lamp cover has not been properly fixed (attached). Please turn the power off, and allow the unit to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp cover. After the performing any needed maintenance, turn the power on again. If the same indication is displayed after the treatment, please contact your dealer or service company.		

Regarding the indicator lamps (continued)

POWER	LAMP	TEMP	Description			
indicator	indicator	indicator	•			
Blinking In Red or Lighting In Red	Turned off	Blinking In Red	The cooling fan is not operating. Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after the treatment, please contact your dealer or service company.			
Blinking In Red or Lighting In Red	Turned off	Lighting In <mark>Red</mark>	There is a possibility that the interior portion has become heated. Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation o the following items, and then turn the power on again • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the treatment please set the HIGH at the FAN SPEED of the item SERVICE of the OPTION menu.			
Lighting In Green	Alternative blinking in Red		There is a possibility that the interior portion has become overcooled. Please use the unit within the usage temperature parameters (5°C to 35°C). After the treatment, resent the power to ON.			
Lighting In Green	Simultaneous blinking in Red		It is time to clean the air filter. Please immediately turn the power OFF, and clean or change the air filter by referring to the section "Air Filter". After cleaning or changed the air filter, please be sure to reset the filter timer. After the treatment, resent the power to ON.			



Phenomena that may easily be mistaken for machine defects

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

1 Before requesting repair, please check in accordance with the following chart. This operation sometimes resolves your problem.

If the situation cannot be corrected,

- 2. The projector's microprocessor may need to be reset. Please push the Restart switch by using a cocktail stick or similar and the projector will restart.
- 3. Some setting may be wrong. Please use the FACTORY RESET function of SERVICE menu in the OPTION menu (\square 37) to reset all settings to factory default.

Then, if the problem is not removed after maintenance, please contact your dealer or service company.

Phenomenon	Cases not involving a machine defect	Reference page
	The electrical power cord is not plugged in. Correctly connect the power cord.	13
	The power switch is not set to the on position. Set the power switch to [] (On).	16
Power does not come on.	The main power source has been interrupted during operation such as by a power outage (blackout), etc. Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please turn the power on again.	16
FixYourDLP.com	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed. Please turn the power off, and allow the unit to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	38, 39

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Phenomena that may easily be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page			
	The lens cover is closed. Remove the lens cover.				
	The signal cables are not correctly connected. Correctly connect the connection cables.				
No pictures are displayed.	The brightness is adjusted to an extremely low level. Adjust the BRIGHT to a higher level using the menu function or the remote control.				
	The computer cannot detect the projector as a plug and play monitor. Make sure that the computer's can detect a plug and play monitor using other plug and play monitor.	10			
Colors have a faded- out appearance, or	Color settings are not correctly adjusted. Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	23, 25, 30			
Color tone is poor.	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	30			
	The brightness and/or contrast are adjusted to an extremely low level. Adjust the BRIGHT and/or CONTRAST settings to a higher level using the menu function.	24, 25			
Pictures appear dark.	The WHISPER function is working. Select the NORMAL to the item WHISPER in the SETUP menu.	24, 32			
	The lamp is approaching the end of its product lifetime. Replace the lamp.	38, 39			
Pictures appear	Either the focus and/or horizontal phase settings are not properly. Adjust the focus using the focus ring, and/or H PHASE using the menu function.	18, 28			
scount	The lens is dirty or misty. Clean the lens by referring to the section "Caring for the lens".	1-4186			

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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.

Warranty and after-service

If a problem occurs with the equipment, first refer to the "Troubleshooting" and run through the suggested checks. If this does not resolve the problem, please contact your dealer or the service company. They will tell you what warranty condition is applied.

Specifications

Specifications

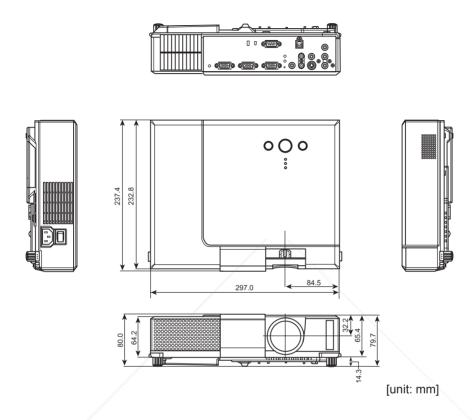
NOTE • This specifications are subject to change without notice.

ame Panel size Drive system Pixels	Liquid crystal projector 1.8 cm (0.7 type) TFT active matrix ED-S3350: 480,000 pixels (800 h ED-X3400/X3450: 786,432 pixels Zoom lens F=1.7 ~ 1.9 f=21.8 ~ 2	(1024 horizontal x 768 vertical)		
Drive system	TFT active matrix ED-S3350: 480,000 pixels (800 h ED-X3400/X3450: 786,432 pixels Zoom lens F=1.7 ~ 1.9 f=21.8 ~ 2	(1024 horizontal x 768 vertical)		
-	ED-S3350: 480,000 pixels (800 h ED-X3400/X3450: 786,432 pixels Zoom lens F=1.7 ~ 1.9 f=21.8 ~ 2	(1024 horizontal x 768 vertical)		
Pixels	ED-X3400/X3450: 786,432 pixels Zoom lens F=1.7 ~ 1.9 f=21.8 ~ 2	(1024 horizontal x 768 vertical)		
		26.2 mm		
	40=1444445			
	165W UHB			
pply	AC100-120V/2.7A, AC220-240V/	1.5A		
nsumption	240W			
ure range	5 ~ 35°C (Operating)			
	297 (W) x 64 (H) x 233 (D) mm (Not including protruding parts) • Please refer to the following figure.			
nass)	2.5 kg			
	RGB input: RGB IN1D-sub 15pin mini x1 RGB IN2D-sub 15pin mini x1	Video input: COMPONENT VIDEO YRCA x1		
	RGB output: RGB OUT D-sub 15pin mini x1	CB/PB		
LP.com	CONTROL	S-Video		
unt-M	erchant.com	AUDIO IN2 Stereo mini x1		
JSTED SOU	RCE FOR PROJECTOR LAN	Audio output GESSORIES AUDIO OUT Stereo mini x1		
Lamp	DT00671			
Air filter	NJ09702			
	P.com STED SOU Lamp	nsumption 240W ure range 5 ~ 35°C (Operating) 297 (W) x 64 (H) x 233 (D) mm (Not including protruding parts) • Please refer to the following figurals: • Please refer to the following figurals: RGB input: RGB input: RGB input: RGB input: RGB input: RGB output: RGB output: RGB output: RGB OUT D-sub 15pin mini x1 Communication port: CONTROL		

• Please consult your dealer.

Others

Specifications (continued)







Projector

ED-S3350/ED-X3400/ED-X3450 User's Manual – Operating Guide

Technical

Example of computer signal

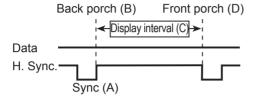
Resolution (H x V)	H. frequency (kHz)	V. frequency (Hz)	Rating	Signal mode
720 x 400	37.9	85.0	VESA	TEXT
640 x 480	31.5	59.9	VESA	VGA (60Hz)
640 x 480	37.9	72.8	VESA	VGA (72Hz)
640 x 480	37.5	75.0	VESA	VGA (75Hz)
640 x 480	43.3	85.0	VESA	VGA (75Hz)
800 x 600	35.2	56.3	VESA	SVGA (56Hz)
800 x 600	37.9	60.3	VESA	SVGA (60Hz)
800 x 600	48.1	72.2	VESA	SVGA (72Hz)
800 x 600	46.9	75.0	VESA	SVGA (75Hz)
800 x 600	53.7	85.1	VESA	SVGA (85Hz)
832 x 624	49.7	74.5		Mac 16" mode
1024 x 768	48.4	60.0	VESA	XGA (60Hz)
1024 x 768	56.5	70.1	VESA	XGA (70Hz)
1024 x 768	60.0	75.0	VESA	XGA (75Hz)
1024 x 768	68.7	85.0	VESA	XGA (75Hz)
1152 x 864	67.5	75.0	VESA	SXGA (75Hz)
1280 x 960	60.0	60.0	VESA	SXGA (60Hz)
1280 x 1024	64.0	60.0	VESA	SXGA (60Hz)
1280 x 1024	80.0	75.0	VESA	SXGA (75Hz)
1280 x 1024	91.2	85.0	VESA	SXGA (85Hz)
1600 x 1200	75.0	60.0	VESA	UXGA (60Hz)

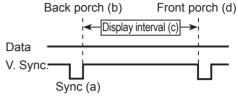
NOTE • Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.

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

Initial set signals

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

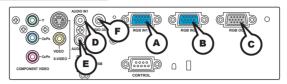




Computer/	Horizo	ntal sig	nal timi	ng (µs)	
Signal	(A)	(B)	(C)	(D)	
TEXT	2.0	3.0	20.3	1.0	
VGA (60Hz)	3.8	1.9	25.4	0.6	
VGA (72Hz)	1.3	3.8	20.3	1.0	
VGA (75Hz)	2.0	3.8	20.3	0.5	
VGA (85Hz)	1.6	2.2	17.8	1.6	
SVGA (56Hz)	2.0	3.6	22.2	0.7	
SVGA (60Hz)	3.2	2.2	20.0	1.0	
SVGA (72Hz)	2.4	1.3	16.0	1.1	
SVGA (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	
1152 x 864 (75Hz)	1.2	2.4	10.7	0.6	
1280 x 960 (60Hz)	1.0	2.9	11.9	0.9	
1280 x 1024 Fix (60F12) P.co	m 1.0	2.3	11.9	0.4	
1280 x 1024 (75Hz)	† 1.1	1.8	9.5	0.2	
1280 x 1024 (85Hz)	D 1.00	U14E	8.1R	P0.4 J	Ē
1600 x 1200 (60Hz)	1.2	1.9	9.9	0.4	

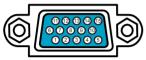
Computer/	Vertica	al signa	l timing	(lines)
Signal	(a)	(b)	(c)	(d)
TEXT	3	42	400	1
VGA (60Hz)	2	33	480	10
VGA (72Hz)	3	28	480	9
VGA (75Hz)	3	16	480	1
VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	3	27	600	1
Mac 16" mode	3	39	624	1
XGA (60Hz)	6	29	768	3
XGA (70Hz)	6	29	768	3
XGA (75Hz)	3	28	768	1
XGA (85Hz)	3	36	768	1
1152 x 864 (75Hz)	3	32	864	1
1280 x 960 (60Hz)	3	36	960	1
1280 x 1024 (60Hz)	3	38	1024	1
1280 x 1024 (75Hz)	3 0	37	1024	8 ²
1280 x 1024 (85Hz)	3	44.0	1024	RIES
1600 x 1200 (60Hz)	3	46	1200	1

Connection to the ports



(A)RGB IN 1, (B)RGB IN 2, (C)RGB OUT

D-sub 15pin mini shrink jack



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

At RGB signal

At component video signal

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

Pin	Signal
1	C _R /P _R
2	Υ
3	C _B /P _B
4	(No connection)
5	Ground
6	C _R /P _R Ground
7	Y Ground
8	C _B /P _B Ground
9	(No connection)
10	Ground
11	
≀	(No connection)
15	,

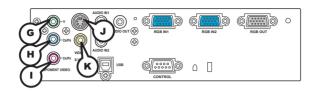
^{*} except for RGB OUT.

FixYourDLP.com

⑤AUDIO IN1, ⓒAUDIO IN2, ⓒAUDIO OUT φ3.5 stereo mini jack, 200mV rms, 47kΩ or more

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Connection to the ports



COMPONENT VIDEO GY, HCB/PB, OCR/PR

RCA jack x3

• System: 525i(480i), 525p(480p), 625i(576i), 750p(720p), 1125i(1080i)

Port	Signal					
Y	Component video Y, 1.0±0.1Vp-p, 75Ω terminator with composite					
Св/Рв	Component video C _B /P _B , 0.7±0.1Vp-p, 75Ω terminator					
CR/PR	Component video C _R /P _R , 0.7±0.1Vp-p, 75Ω terminator					

JS-VIDEO

Mini DIN 4pin jack



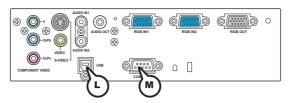
Pin	Signal
1	Color signal 0.286Vp-p (NTSC, burst), 75Ω terminator Color signal 0.300Vp-p (PAL/SECAM, burst) 75Ω terminator
2	Brightness signal, 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

(K)VIDEO

RCA jack

• System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60 1.0±0.1Vp-p, 75Ω terminator

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



LUSB

USB B type jack

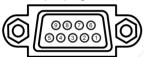




Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

MCONTROL

D-sub 9pin plug



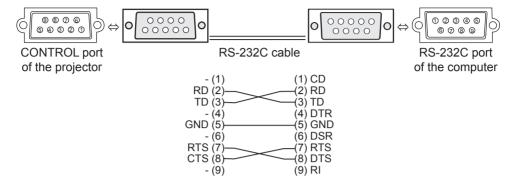
• About the details of RS-232C communication, please refer to the following page.

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



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

RS-232C Communication



Connecting the cable

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

Communications setting

19200bps, 8N1

1. Protocol

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

2. Header

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

CRC_low: Lower byte of CRC flag for command data CRC_high: Upper byte of CRC flag for command data

3. Command data

Command data chart

1	byte_0	byte_1	byte_2	byte_3	byte_4	byte_5	
9	FixYour D Ct	P.Com	Ту	ре	Setting code		
	low Spans	_{ored b} high	low	high	low	high	

Action (byte 0 - 1)

Action (byte	eTo-1) WS	rcnant.com (800
Action	Classification	E EAD DOOLCONTENT LAMBS AND
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.

281-8860

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 in creases 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 the projector cannot understand the received command

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

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

When the projector cannot execute the received command.

When the projector cannot execute the received command, the error code '1cH' + 'xxxxH' is sent back to the computer. When the data length is greater than indicated by the data length code, the projector ignore the excess data code.

Conversely when the data length is shorter than indicated by the data length dode, an efforcode will be returned to the computer.

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.

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

RS-232C Communication (continued)

Names		Operation Type Header			Command Data				
Numbo		operation type		- ICGGCI		CRC	Action	Туре	Setting Code
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
		Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00
			(Example re						
			00 ((Off		01 0 (On		02 00 (Cool down)		
Input Source	Set	RGB IN1	BE EF	03	06 00	FE D2	01 00	00 20	00 00
F		RGB IN2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		S-VIDEO	BE EF	03	06 00	9E D3	01 00	00 20	02 00
		COMPONENT	BE EF	03	06 00	AE D1	01 00	00 20	05 00
	<u> </u>	Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00
Error Status		Get	BE EF	03	06 00	D9 D8	02 00	20 60	00 00
			04 00′ 05 00′			02 00 (Fan error) 06 00 amp time err	(Lam	3 00 np error) 7 00 ol error)	
BRIGHT		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
									00 00
		Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHT Reset		Decrement Execute	BE EF	03 03	06 00 06 00	3E D3 58 D3	05 00 06 00	03 20 00 70	
BRIGHT Reset CONTRAST			/				70		00 00
		Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00
		Execute Get	BE EF BE EF	03	06 00 06 00	58 D3 FD D3	06 00 02 00	00 70 04 20	00 00 00 00 00 00
		Execute Get Increment	BE EF BE EF	03 03 03	06 00 06 00 06 00	58 D3 FD D3 9B D3	06 00 02 00 04 00	00 70 04 20 04 20	00 00 00 00 00 00 00 00
CONTRAST	Set	Execute Get Increment Decrement	BE EF BE EF BE EF	03 03 03 03	06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2	06 00 02 00 04 00 05 00	00 70 04 20 04 20 04 20	00 00 00 00 00 00 00 00 00 00
CONTRAST CONTRAST Reset	Set	Execute Get Increment Decrement Execute	BE EF BE EF BE EF BE EF	03 03 03 03 03	06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2	06 00 02 00 04 00 05 00 06 00	00 70 04 20 04 20 04 20 04 20 01 70	00 00 00 00 00 00 00 00 00 00 00 00
CONTRAST CONTRAST Reset	Set	Execute Get Increment Decrement Execute NORMAL	BE EF BE EF BE EF BE EF BE EF	03 03 03 03 03 03	06 00 06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6	06 00 02 00 04 00 05 00 06 00 01 00	00 70 04 20 04 20 04 20 01 70 BA 30	00 00 00 00 00 00 00 00 00 00 00 00
CONTRAST CONTRAST Reset	Set	Execute Get Increment Decrement Execute NORMAL CINEMA	BE EF BE EF BE EF BE EF BE EF BE EF	03 03 03 03 03 03 03	06 00 06 00 06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7	06 00 02 00 04 00 05 00 06 00 01 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00
CONTRAST CONTRAST Reset	Set	Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC	BE EF	03 03 03 03 03 03 03 03 03 03 03	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4	06 00 02 00 04 00 05 00 06 00 01 00 01 00 01 00 02 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00
CONTRAST CONTRAST Reset	Set	Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC	BE EF	03 03 03 03 03 03 03 03 03 03 03	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6	06 00 02 00 04 00 05 00 06 00 01 00 01 00 01 00 02 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00
CONTRAST Reset MODE		Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC Get	BE EF	03 03 03 03 03 03 03 03 03 03 03 04 04 04 04 04 04 04 04 04 04 04 04 04	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 00 00 Normal) ((0	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6 01 00 Cinema)	06 00 02 00 04 00 05 00 06 00 01 00 01 00 01 00 02 00 04 00 (Dynamic)	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30 Custom)	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00 00 00
CONTRAST Reset MODE		Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC Get #1 DEFAULT	BE EF	03 03 03 03 03 03 03 03 03 03 eturn)	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 00 00 00 00 Normal) ((0	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6 01 00 Cinema) 07 E9	06 00 02 00 04 00 05 00 06 00 01 00 01 00 02 00 04 00 (Dynamic)	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30 Custom) A1 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00 00 00
CONTRAST Reset MODE GAMMA	Set	Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC Get #1 DEFAULT #1 CUSTOM	BE EF	03 03 03 03 03 03 03 03 03 03 eturn)	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 00 00 00 00 00 00 00 00 00 00 00 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6 01 00 Cinema) 07 E9 07 FD	06 00 02 00 04 00 05 00 06 00 01 00 01 00 02 00 04 00 (Dynamic) 01 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30 C(Custom) A1 30 A1 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00 00 00
CONTRAST Reset MODE GAMMA	Set	Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC Get #1 DEFAULT #1 CUSTOM #2 DEFAULT	BE EF	03 03 03 03 03 03 03 03 03 04 04 05 04 05 05 05 05 05 05 05 05 05 05 05 05 05	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 00 00 00 00 Normal) ((0 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6 01 00 Cinema) 07 E9 07 FD 97 E8	06 00 02 00 04 00 05 00 06 00 01 00 01 00 02 00 04 00 (Dynamic) 01 00 01 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30 C(Custom) A1 30 A1 30 A1 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00 00 00 20 00
CONTRAST Reset MODE	Set	Execute Get Increment Decrement Execute NORMAL CINEMA DYNAMIC Get #1 DEFAULT #1 CUSTOM #2 DEFAULT #2 CUSTOM	BE EF	03 03 03 03 03 03 03 03 03 03 04 07 (I	06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00 06 00	58 D3 FD D3 9B D3 4A D2 A4 D2 23 F6 B3 F7 E3 F4 10 F6 O1 00 Cinema) 07 E9 07 FD 97 E8 97 FC	06 00 02 00 04 00 05 00 06 00 01 00 01 00 02 00 04 00 (Dynamic) 01 00 01 00 01 00 01 00	00 70 04 20 04 20 04 20 01 70 BA 30 BA 30 BA 30 BA 30 C(Custom) A1 30 A1 30 A1 30	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 04 00 00 00 20 00 10 00 21 00

		O " T						Command	Data
Names		Operation Type		Header		CRC	Action	Type	Setting Code
User Gamma Pattern	Set	Off	BE EF	03	06 00	FB FA	01 00	80 30	00 00
		9 step gray scale	BE EF	03	06 00	6B FB	01 00	80 30	01 00
		15 steps gray scale	BE EF	03	06 00	9B FB	01 00	80 30	02 00
		Ramp	BE EF	03	06 00	0B FA	01 00	80 30	03 00
		Get	BE EF	03	06 00	C8 FA	02 00	80 30	00 00
User Gamma Point 1		Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00
		Increment	BE EF	03	06 00	6E FE	04 00	90 30	00 00
		Decrement	BE EF	03	06 00	BF FF	05 00	90 30	00 00
User Gamma Point 2		Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00
		Increment	BE EF	03	06 00	92 FF	04 00	91 30	00 00
		Decrement	BE EF	03	06 00	43 FE	05 00	91 30	00 00
User Gamma Point 3		Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00
	Increment		BE EF	03	06 00	D6 FF	04 00	92 30	00 00
		Decrement	BE EF	03	06 00	07 FE	05 00	92 30	00 00
User Gamma Point 4		Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00
		Increment		03	06 00	2A FE	04 00	93 30	00 00
	Decrement		BE EF	03	06 00	FB FF	05 00	93 30	00 00
User Gamma Point 5		Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00
		Increment	BE EF	03	06 00	5E FF	04 00	94 30	00 00
		Decrement	BE EF	03	06 00	8F FE	05 00	94 30	00 00
User Gamma Point 6	İ	Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00
		Increment	BE EF	03	06 00	A2 FE	04 00	95 30	00 00
		Decrement	BE EF	03	06 00	73 FF	05 00	95 30	00 00
User Gamma Point 7	İ	Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00
		Increment	BE EF	03	06 00	E6 FE	04 00	96 30	00 00
		Decrement	BE EF	03	06 00	37 FF	05 00	96 30	00 00
User Gamma Point 8		Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00
	-/	Increment	BE EF	03	06 00	1A FF	04 00	97 30	00 00
		Decrement	BE EF	03	06 00	CB FE	05 00	97 30	00 00
COLOR TEMP	Set	LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		MIDDLE	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		CUSTOM	BE EF	03	06 00	3B F8	01 00	B0 30	10 00
		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00
COLOR TEMP GAIN R	İ	Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00
		Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00
FixYourDLP.co	m	Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00

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

RS-232C Communication (continued)

Names		Operation Type		Header				Command I	Data
ivailles		орегации туре		i icauel		CRC	Action	Туре	Setting Code
COLOR TEMP GAIN G		Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00
		Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00
		Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00
COLOR TEMP GAIN B		Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00
		Increment	BE EF	03	06 00	EA F5	04 00	B3 30	00 00
		Decrement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00
COLOR TEMP		Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00
OFFSET R		Increment	BE EF	03	06 00	62 F5	04 00	B5 30	00 00
		Decrement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00
COLOR TEMP		Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00
OFFSET G		Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00
		Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00
COLOR TEMP		Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00
OFFSET B		Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00
		Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00
COLOR		Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00
		Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00
		Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00
COLOR Reset		Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00
TINT	Get		BE EF	03	06 00	49 73	02 00	03 22	00 00
	Increment Decrement		BE EF	03	06 00	2F 73	04 00	03 22	00 00
			BE EF	03	06 00	FE 72	05 00	03 22	00 00
TINT Reset		Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00
SHARPNESS		Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00
	Increment		BE EF	03	06 00	97 72	04 00	01 22	00 00
		Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00
SHARPNESS Reset		Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00
PROGRESSIVE	Set	TURN OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
	L	FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
		Get	BE EF	03	06 00	79 72	02 00	07 22	00 00
MY MEMORY Load	Set	1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
MY MEMORY Save	Set	1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
FixYourDLP.co	m	2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
Sponsored by	M	3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
SCOUN	†	Mo4rch	BE EF	03	06 00	02 D6	01 00	15 20	_03_00
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
THE TRUSTI	D)	SOUR16:9E FOR	BE EF	03	06 00	A 0E D1	-01 00	08 20	SC01 00=S
		SMALL	BE EF	03	06 00	FE D1	01 00	08 20	02 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
		Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00

Names		Operation Type		Header			Command Data			
ivarries		Operation Type		пеацег		CRC	Action	Туре	Setting Code	
OVER SCAN		Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
		Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00	
		Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00	
OVER SCAN Reset		Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00	
V POSITION	1	Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
		Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00	
		Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00	
V POSITION Reset	İ	Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00	
H POSITION		Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00	
		Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00	
		Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00	
H POSITION Reset		Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00	
H PHASE	1	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		03	06 00	FE 82	05 00	03 21	00 00	
H SIZE	1	Get		03	06 00	B5 82	02 00	02 21	00 00	
		Increment		03	06 00	D3 82	04 00	02 21	00 00	
		Decrement		03	06 00	02 83	05 00	02 21	00 00	
H SIZE Reset	1	Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00	
AUTO ADJUST		Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00	
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00	
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00	
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00	
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00	
	<u> </u>	Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00	
COMPONENT	Set	COMPONENT	BE EF	03	06 00	4A D7	01 00	17 20	00 00	
		SCART RGB	BE EF	03	06 00	DA D6	01 00	17 20	01 00	
		Get	BE EF	03	06 00	79 D7	02 00	17 20	00 00	
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	
		NTSC4.43	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	
ElyVaurDI D a		N-PAL	BE EF	03	06 00	0E 71	01 00	00 22	07 00	
FixYourDLP.co		Get	BE EF	03	06 00	0D 73	02 00	00 22	00 00	

DISCOUNT-METCHANT.COM (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

RS-232C Communication (continued)

Names		Operation Type	Header				Command Data		
Hamos			lieauei			CRC	Action	Туре	Setting Code
FRAME LOCK	Set	TURN OFF	BE EF	03	06 00	CB D6	01 00	14 30	00 00
		TURN ON	BE EF	03	06 00	5B D7	01 00	14 30	01 00
		Get	BE EF	03	06 00	F8 D6	02 00	14 30	00 00
KEYSTONE V		Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00
		Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
KEYSTONE V Reset	Execute		BE EF	03	06 00	08 D0	06 00	0C 70	00 00
WHISPER	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
		Get	BE EF	03	06 00	08 23	02 00	00 33	00 00
MIRROR	Set	NORMAL	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		H:INVERT	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		V:INVERT	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		H&V:INVERT	BE EF	03	06 00	37 D2	01 00	01 30	03 00
	Г	Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
VOLUME		Get	BE EF	03	06 00	31 D3	02 00	01 20	00 00
	\vdash	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	TURN OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		TURN ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
		Get	BE EF	03	06 00	75 D3	02 00	02 20	00 00
LANGUAGE	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
	İÌ	FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
	l i	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
	l i	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
	l i	····· 한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
FixYourDLP.co	m	POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00
Sponsored by	M	TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00
	Ale .	Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00

Names	Operation Type		Header				Command Data			
Indilies			Header			CRC	Action	Туре	Setting Code	
MENU POSITION H	Get		BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment		BE EF	03	06 00	62 D7	04 00	15 30	00 00	
		Decrement		03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset	Execute		BE EF	03	06 00	DC C6	06 00	43 70	00 00	
MENU POSITION V	Get		BE EF	03	06 00	40 D7	02 00	16 30	00 00	
	Increment		BE EF	03	06 00	26 D7	04 00	16 30	00 00	
	Decrement		BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset	Execute		BE EF	03	06 00	A8 C7	06 00	44 70	00 00	
OSD BRIGHT	Get		BE EF	03	06 00	A8 D5	02 00	18 30	00 00	
		Increment	BE EF	03	06 00	CE D5	04 00	18 30	00 00	
		Decrement	BE EF	03	06 00	1F D4	05 00	18 30	00 00	
BLANK	Set	My Screen	BE EF	03	06 00	FB CA	01 00	00 30	20 00	
		ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00	
	İİ	BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00	
		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00	
		BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00	
		Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00	
BLANK On/Off	Set	TURN OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00	
		TURN ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00	
		Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00	
START UP	Set	My Screen	BE EF	03	06 00	CB CB	01 00	04 30	20 00	
	İİ	ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00	
		TURN OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00	
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
My Screen LOCK	Set	TURN OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00	
		TURN ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00	
	Get		BE EF	03	06 00	08 EF	02 00	C0 30	00 00	
Message	Set	TURN OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00	
		TURN ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00	
	<u> </u>	Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00	
AUTO SEARCH	Set	TURN OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00	
		TURN ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00	
	Get		BE EF	03	06 00	85 D6	02 00	16 20	00 00	
AUTO POWER OFF		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00	
EivVourDI D	122	Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
FixYourDLP.com Spansored by Dec		Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00	

DISCOUNT-MERCHANT.COM (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

RS-232C Communication (continued)

Names	Operation Type		Header				Command Data		
inames						CRC	Action	Туре	Setting Code
LAMP TIME	Get		BE EF	03	06 00	C2 FF	02 00	90 10	00 00
LAMP TIME Reset	Execute		BE EF	03	06 00	58 DC	06 00	30 70	00 00
FILTER TIME	Get		BE EF	03	06 00	C2 F0	02 00	A0 10	00 00
FILER TIME Reset	Execute		BE EF	03	06 00	98 C6	06 00	40 70	00 00
MAGNIFY	Get		BE EF	03	06 00	7C D2	02 00	07 30	00 00
		Increment	BE EF	03	06 00	1A D2	04 00	07 30	00 00
	Decrement		BE EF	03	06 00	CB D3	05 00	07 30	00 00
FREEZE	Set	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00
		FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00
		Get	BE EF	03	06 00	B0 D2	02 00	02 30	00 00



HITACHI

Hitachi, Ltd. Tokyo, Japan International Sales Division

THE HITACHI ATAGO BUILDING,

No. 15-12 Nishi Shinbashi, 2 - Chome, Minato - Ku, Tokyo 105-8430, Japan. Tel: 03 35022111

HITACHI EUROPE LTD,

Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA

UNITED KINGDOM

Tel: 01628 643000 Fax: 01628 643400

Email: consumer-service@hitachi-eu.com

HITACHI EUROPE S.A.

364 Kifissias Ave. & 1, Delfon Str.

152 33 Chalandri

Athens **GREECE**

Tel: 1-6837200 Fax: 1-6835964

Email: service.hellas@hitachi-eu.com

HITACHI EUROPE GmbH

Munich Office Dornacher Strasse 3 D-85622 Feldkirchen bei München **GERMANY**

Tel: +49-89-991 80-0 Fax: +49-89-991 80-224

Hotline: +49-180-551 25 51 (12ct/min) Email: HSE-DUS.service@hitachi-eu.com

HITACHI EUROPE S.A.

Gran Via Carlos III, 86, planta 5 Edificios Trade - Torre Este

08028 Barcelona **SPAIN**

Tel: +34 93 409 2550 Fax: +34 93 491 3513

Email: atencion.cliente@hitachi-eu.com

HITACHI EUROPE srl

Via Tommaso Gulli N.39, 20147 Milano. Italia

ITALY

Tel: +39 02 487861

Tel: +39 02 38073415 Servizio Clienti

Fax: +39 02 48786381/2

Email: customerservice.italy@hitachi-eu.com

HITACHI Europe AB

Box 77 S-164 94 Kista

SWEDEN

Tel: +46 (0) 8 562 711 00 Fax: +46 (0) 8 562 711 13 Email: csgswe@hitachi-eu.com

HITACHI EUROPE S.A.S

Lyon Office B.P. 45, 69671 BRON CEDEX **FRANCE**

Tel: +33 04 72 14 29 70 Fax: +33 04 72 14 29 99

Email: france.consommateur@hitachi-eu.com

HITACHI EUROPE LTD (Norway) AB

STRANDVEIEN 18 1366 Lysaker **NORWAY** Tel: 67 5190 30 Fax: 67 5190 32

Email: csgnor@hitachi-eu.com

HITACH EUROPE AB

Egebækgård Egebækvej 98 DK-2850 Nærum **DENMARK** Tel: +45 43 43 6050

Fax: +45 43 60 51

Email: csgnor@hitachi-eu.com

HITACHI EUROPE AB

Neopoli / Niemenkatu 73 FIN-15140 Lahti **FINLAND**

Tel: +358 3 8858 271 Fax: +358 3 8858 272

Email: csgnor@hitachi-eu.com

FixYourDLP.com

Hitachi Europe Ltd Bergensesteenweg 421 1600 Sint-Pieters-Leeuw

Email: sofie.van.bom@hitachi-eu.com

HITACHI EUROPE LTD

Na Sychrove 975/8 101 27 Praha 10 – Bohdalec

) 281-8860

BELGIUM CZECH REPUBLIC Tell 4420 267 212 383 AND ACCESSORIES Tel: +32 2 363 99 010 URGE FOR

Fax: +32 2 363 99 00 Fax: +420 267 212 385

Email: csgnor@hitachi-eu.com



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

