DUKANE LCD Projector Model 8914



http://www.pureglare.com.au

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Projector 8914 User's Manual – Operating Guide



Thank you for purchasing this projector.

▲**WARNING** ► Before using this product, please read this Manual and related manuals to ensure the proper use of this product. After reading them, store them in a safe place for future reference.

About this manual

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

WARNING This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

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

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

• The manufacturer assumes no responsibility for any errors that may appear in this manual.

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EASY Menu Aspect, Mode, Brightness, Contrast, Color, Tint, Sharpness, Whisper, Mirro Reset, Filter time, Language,	23 or,
Go to advanced menu	
PICTURE Menu Brightness, Contrast, Gamma, Color temp, Color, Tint, Sharpness, Progressive, My memory	25
IMAGE Menu Aspect, Over scan, V. position, H. posi H. phase, H. size, Auto adjust execut	tion,
INPUT Menu Color space, Component, Video form Information	
SETUP Menu	32
SCREEN Menu Language, Menu position, OSD brigh Blank, Start up, MyScreen, MyScreen lock, Message	33 t.,
OPTION Menu Auto search, Auto off, Lamp time, Filter time, Service	36
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Projector features

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

O High Brightness

Newly developed 230W UHB (Ultra High Brightness) lamp gives you a bright image on a screen. The image is bright enough for use in lighted rooms.

O Low Noise

WHISPER mode is available for quieter operation. It is perfect for use in low luminance rooms where low noise is more important than brightness.

O Compact Body

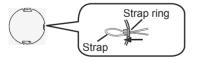
Even with its many features, this projector is extremely compact and slim.

Preparations

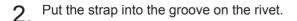
NOTE • Keep the original packing materials for future reshipment. For moving the projector, be sure to use the original packing materials. Use special caution for the lens part.

Fastening the lens cover

To avoid losing the lens cover, please fasten it the lens cap to the projector using the strap.







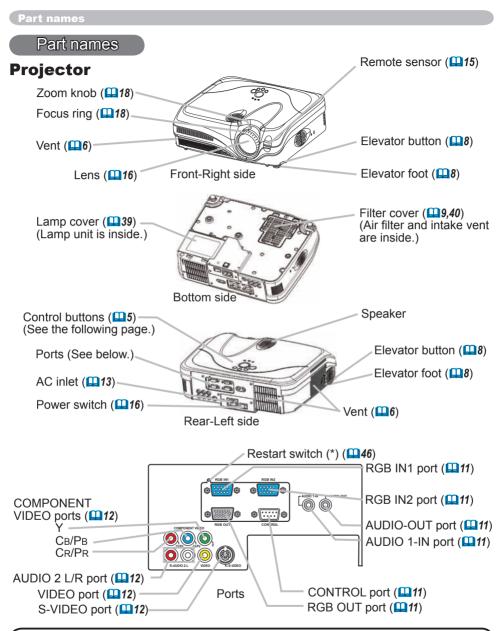
3 Push the rivet into the strap hole.



Strap hole

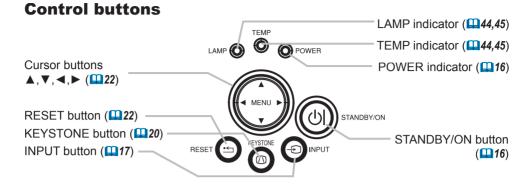
Bottom side

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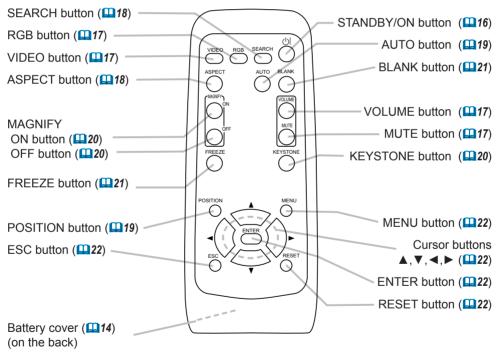


NOTE (*) About Restart switch: This projector is controlled by an internal microprocessor. Under certain exceptional circumstances, the projector may not operate correctly and the microprocessor will need to be reset. In such a case, please push the Restart switch by using a cocktail stick or similar, 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.





Remote control



Setting up

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.

- Do not 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 cleaning the air filter.
- For the projector installed bottom-up, use the accessory filter cover for bottomup 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.

- Do not 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.
- Do not place the projector on a metallic thing or anything weak in heat.
- Do not place the projector on a carpet, cushion or bedding.
- Do not place the projector in direct sunlight or near a hot object such as a 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.

- Do not 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.

Do not place the projector near a humidifier, a smoking space or a kitchen.
 Adjust the direction of the projector to keep the light from directly hitting the projector's remote sensor.

Arrangement

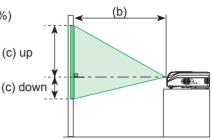
Refer to the illustrations and tables below to determine the screen size and projection distance.

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

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







For the model 8914/8915

(a) Screen		4:3 screen				16 : 9 screen								
(a) Screen size [inch (m)]		on distance nch)]		Scree [cm (i	en heig nch)]	ht	(b)	Projecti [m (i	on dist nch)]	ance	(c		en heig inch)]	ht
	min.	max.	dow	'n	U	р	m	in.	m	ax.	do	wn	U	ıр
30 (0.8)	0.9 (35)	1.1 (42)	5	(2)	41	(16)	1.0	(38)	1.2	(46)	-1	(0)	36	(14)
40 (1.0)	1.2 (47)	1.4 (57)	6	(2)	55	(22)	1.3	(51)	1.6	(62)	-2	(-1)	48	(19)
50 (1.3)	1.5 (59)	1.8 (71)	8	(3)	69	(27)	1.6	(65)	2.0	(78)	-2	(-1)	60	(24)
60 (1.5)	1.8 (71)	2.2 (86)	9	(4)	82	(32)	2.0	(78)	2.4	(94)	-2	(-1)	72	(28)
70 (1.8)	2.1 (83)	2.6 (100)	11	(4)	96	(38)	2.3	(91)	2.8	(110)	-3	(-1)	84	(33)
80 (2.0)	2.4 (96)	2.9 (115)	12	(5)	110	(43)	2.6	(104)	3.2	(126)	-3	(-1)	97	(38)
90 (2.3)	2.7 (108)	3.3 (130)	14	(5)	123	(49)	3.0	(117)	3.6	(141)	-4	(-1)	109	(43)
100 (2.5)	3.0 (120)	3.7 (144)	15	(6)	137	(54)	3.3	(131)	4.0	(157)	-4	(-2)	121	(47)
120 (3.0)	3.7 (144)	4.4 (174)	18	(7)	165	(65)	4.0	(157)	4.8	(189)	-5	(-2)	145	(57)
150 (3.8)	4.6 (181)	5.5 (217)	23	(9)	206	(81)	5.0	(197)	6.0	(237)	-6	(-2)	181	(71)
200 (5.1)	6.1 (241)	7.4 (291)	30 ((12)	274	(108)	6.7	(263)	8.0	(317)	-8	(-3)	241	(95)
250 (6.4)	7.7 (302)	9.2 (364)	38 ((15)	343	(135)	8.4	(329)	10.1	(396)	-10	(-4)	302	(119)
300 (7.6)	9.2 (363)	11.1 (437)	46 ((18)	411	(162)	10.0	(395)	12.1	(476)	-12	(-5)	362	(142)

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.

▶ Do not incline the projector rightward or leftward. Also do not incline it backward or forward exceeding 9 degrees. Exceeding these range could cause malfunction, and could shorten the lifetime of the consumables.

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.



Flevator feet Elevator button

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 buttons. Raise or lower the projector to the desired height and release the elevator

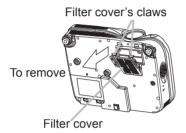
When you release the elevator buttons, the elevator feet will lock into position.

- If necessary, you can also finely adjust the height of the projector by twisting 3. If necessary, you 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 is connected 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 the projector, 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 the filter cover in the following procedure.



To set

Filter cover for bottom-up use

- 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 the projector not to fall. While the projector is placed lens-side up, hold the projector.
- 2. Unhooking the filter cover's claws, pull the filter cover in the direction of the arrow to remove it.
- **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 adjustment function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or LCD monitors to change the resolution.

About Plug-and-Play capability

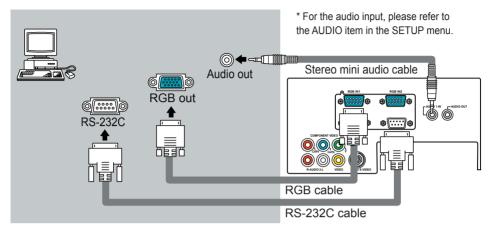
Plug-and-Play is a system composed of the computer, its operating system and peripheral equipment (i.e. display devices). This projector is compatible with VESA DDC 2B. Plug-and-Play can be achieved by connecting this projector to a computer is VESA DDC (display data channel) compatible.

• 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.

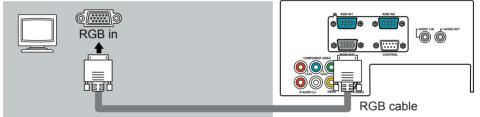
• Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.



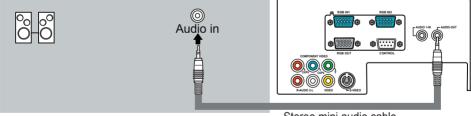
Examples of connection with a computer



Connecting to a monitor (output)



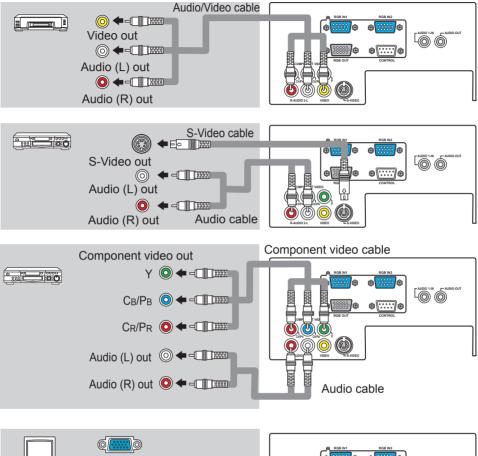
Connecting to a speaker with amplifier (output)

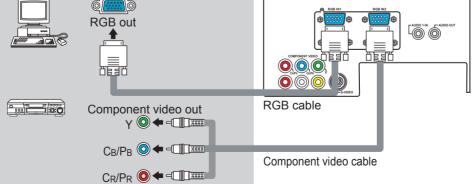


Stereo mini audio cable



Examples of connection with a VCR/DVD player





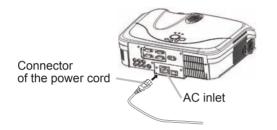
Connecting power supply

▲**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.

Remote control

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 liquid adheres to 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 batteries. Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control

- Close the battery cover.
- **3.** 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 expose the remote control to physical impact.

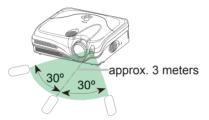
• Do not get the remote control wet or place it on wet objects. It may result in malfunction.

• 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 malfunctioning.

• 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 the 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 to use the reflected signal.

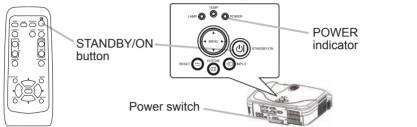
• Since the remote control uses infrared light to send signals to the projector (Class1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.

Power on/off

Power on/off

▲WARNING ► When the power is on, a strong light is emitted. Do not look into the lens of projector. Also do not peep at the inside of projector through a hole.

NOTE • Turn the power on/off in right order. Please power on the projector prior to the connected devices. Power off the projector later than the connected devices.



POWER

(Steady orange)

(Blinking in green)

(Steady green)

Power off?

(Blinking in orange)

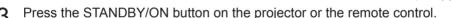
(Steady orange)

ტ

Turning on the power

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

The power indicator will light up in steady orange. Then wait several seconds because the buttons may not function for these several seconds.



The projector lamp will light up and the POWER indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in green.

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

Turning off the power

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

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

2. Press the STANDBY/ON button on the projector or the remote control again while the message appears. The projector lamp will go off, and the POWER indicator

will begin blinking in orange.

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

- Make sure that the power indicator lights in steady orange, and set the power switch to the OFF position. The POWER indicator will go off. Attach the lens cover.
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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 $\blacktriangle/\blacksquare$ 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.

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Temporarily muting the sound

- 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

Press the INPUT button on the projector.

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

 \rightarrow RGB IN1 \rightarrow RGB IN2

- VIDEO ← S-VIDEO ← COMPONENT VIDEO
- 1. Press the RGB button on the remote control to select an input port for the RGB signal.

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

RGB IN1 ↔ RGB IN2

- When the TURN ON is selected to the AUTO SEARCH item in the OPTION menu (436), the projector checks the RGB IN1 port first. If no input is detected at the port, the projector will check the RGB IN2 port.
- Press the VIDEO button on the remote control to select an input for video signal. Each time you press the button, the projector switches its video input port as below.

COMPONENT VIDEO → S-VIDEO → VIDEO

 When the TURN ON is selected to the item AUTO SEARCH of OPTION menu (136), the projector checks the COMPONENT VIDEO port first. If no input is detected at the port, projector will begin to check other ports in above order.









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Searching an input signal

1 Press the SEARCH button on the remote control.

The projector will start 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 IN 1 → RGB IN 2 → COMPONENT VIDEO → S-VIDEO → VIDEO \land

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Selecting an aspect ratio

- Press the ASPECT button on the remote control.
 - Each time you press the button, the projector switches the mode for aspect ratio in turn.
 - O For an RGB signal NORMAL → 4:3 → 16:9 \uparrow
 - O For a video signal/no signal 4:3 → 16:9 → SMALL \uparrow |
- The NORMAL mode keeps the original aspect ratio of the signal.
- For an HDTV signal of 1125i (1080i) or 750p (720p) as the COMPONENT VIDEO input, only 16:9 mode can be selected.
- Performing the automatic adjustment initializes the aspect ratio setting.

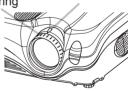
Adjusting the zoom and focus

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

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Zoom knob





Using the automatic adjustment feature

1 Press the AUTO button on the remote control.

O For an RGB signal

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

And the aspect ratio will be automatically selected. 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.

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O For a video signal or s-video signal

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

This function is available only when the AUTO mode is selected to the VIDEO FORMAT item in the INPUT menu (1230). For a component video signal, the signal type is identified automatically independently of this function.

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

The vertical position and horizontal position will be automatically adjusted.

• For a component video signal

The aspect ratio will be automatically selected. The clock phase will be automatically adjusted.

• 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 $\blacktriangle/\checkmark/\checkmark/\blacktriangleright$ 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

- 1. Press the KEYSTONE button on the projector or the remote control. A dialog will appear on the screen to aid you in correcting the distortion.
- 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 after a few seconds.
- The adjustable range for correction will vary among inputs. For some input, this function may not work well.
- When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly.
- When the zoom adjustment is set to the TELE (telephoto focus), this correction may be excessive. This function should be used when the zoom adjustment is set to the WIDE (wide-angle focus) whenever possible.

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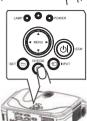
Using the magnify feature

- Press the ON button of MAGNIFY on the remote control. The "MAGNIFY" indication will appear on the screen (although the indication will disappear in several seconds with no operation), and the projector will enter the MAGNIFY mode.
- **2.** Use the cursor buttons $\blacktriangle/\blacksquare$ to adjust the zoom level.

To move the zoom area, press the POSITION button in the MAGNIFY mode, then use the cursor buttons $\blacktriangle/ \bigtriangledown / \blacklozenge / \blacklozenge$ 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 is changed, or when the display condition is changed.
- Although in the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exits 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 except buttons of MAGNIFY, FREEZE, ESC and RESET 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 the FREEZE mode for too long.

Temporarily blanking the screen

- **1** Press the BLANK button on the remote control.
- The blank screen will be displayed instead of the screen of input signal. Please refer to the BLANK item in the SCREEN menu (133).

To exit 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 is changed, or when one of the projector's buttons or the remote control buttons is pressed.

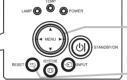


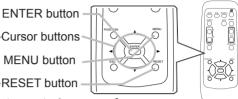


Using the menu function

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.

In the EASY MENU

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

In the Advanced MENU

- **9** Use the cursor buttons \blacktriangle/∇ to select a menu.
 - 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 select an item. The display of the selected menu will be active.

3. Use the cursor buttons \blacktriangle/\P 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.

4. Use the cursor buttons $\blacktriangle/ \triangledown$ to operate the item.

- When you want 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.) cannot be reset.
- 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.
- Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed.







EASY Menu

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

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

EASY MENU		
ASPECT	◀ 4:3 I	>
MODE	NORMAL	
BRIGHTNESS	+0	
CONTRAST	+0	
COLOR	+0	
TINT	+0	
SHARPNESS	+3	
WHISPER	NORMAL	
MIRROR	NORMAL	
RESET		
FILTER TIME	0	
LANGUAGE 3	ENGL I SH	
Go To Adv	vance Menu	

Item	Description
ASPECT	Using the buttons ◄ /▶ switches the mode for aspect ratio. See the ASPECT item in the IMAGE menu (□28).
MODE	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 ↑ 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 GAMMA (125) and COLOR TEMP (126) items in the PICTURE menu. • When this function is performed, a certain extra such as a line may appear.
BRIGHTNESS	Using the buttons ◄/▶ adjusts the brightness. See the item BRIGHTNESS in the PICTURE menu (□ 25).
CONTRAST	Using the buttons ◄ /▶ adjusts the contrast. See the item CONTRAST of section PICTURE menu (□25).
COLOR	Using the buttons ◄ /► adjusts the strength of whole color. See the COLOR item in the PICTURE menu (□26).
TINT	Using the buttons ◄/▶ adjusts the tint. See the TINT item in the PICTURE menu (□26).
SHRPNESS	Using the buttons ◄ /▶ adjusts the sharpness. See the SHARPNESS item in the PICTURE menu (□26).
WHISPER	Using the buttons ◄ /► turns off/on the whisper mode. See the WHISPER item in the SETUP menu (□ 32).



EASY Menu (continued)

Item	Description
MIRROR	Using the buttons ◄ /▶ switches the mode for mirror status. See the MIRROR item in the SETUP menu (□ 32).
RESET	Performing this item resets all of the items of EASY MENU except FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting RESET using the button ▲ performs resetting.
FILTER TIME	Performing this item resets the filter timer which counts usage time of the air filter. A dialog is displayed for confirmation. Selecting RESET using the button ▲ performs resetting. See the FILTER TIME item in the OPTION menu (1136).
LANGUAGE	Select the LANGUAGE item to toggle the menu language. Refer to description of LANGUAGE in the SCREEN menu (133).
Go To Advanced Menu	Select "Go To Advanced Menu" to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN on OPTION.

PICTURE Menu

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

OPureGlama

Select an item using the cursor buttons $\blacktriangle/\bigtriangledown$ on the projector or remote control, and press the cursor button \blacktriangleright on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

MENU [RGB]		SELECT
PICTURE IMAGE INPUT SETUP SCREEN OPTION EASY MENU	BRIGHTNESS CONTRAST GAMMA COLOR TEMP COLOR TINT SHARPNESS PROGRESSIVE MY MEMORY	+0 +0 DEFAULT 1 6500K +0 +0 +0 +0 TURN 0FF SAVE 1

Item	Description
BRIGHTNESS	Using the buttons ▲/▼ adjusts the brightness. : Light ⇔ Dark
CONTRAST	Using the buttons \blacktriangle/\P adjusts the contrast. : Strong \Leftrightarrow Weak
GAMMA	Using the buttons ▲/▼ switches the GAMMA mode. #1 DEFAULT ⇔ #1 CUSTOM ⇔ #2 DEFAULT #3 CUSTOM ⇔ #3 DEFAULT ⇔ #2 CUSTOM 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. 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. Each time you press the ENTER button, the pattern changes as below. No pattern ⇔ Gray scale of 9 steps The eight equalizing bars correspond to eight tone levels of the
	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 pattern cannot be controlled with any of equalizing adjustment bar. • When this function is performed, a certain extra such as a line may appear.



PICTURE Menu (continued)

ltem	Description		
COLOR TEMP	Using the buttons ▲/▼ switches the mode of color temperature. HIGH ⇔ MIDDLE ⇔ LOW ⇔ CUSTOM To adjust 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 the 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 • When this function is performed, a certain extra such as a line may appear.		
COLOR	 Using the buttons ▲/▼ adjusts the strength of whole color. Strong ⇔ Weak This item can be selected only for a video signal. 		
TINT	 Using the buttons ▲/▼ adjusts the tint. Green ⇔ Red This item can be selected only for a video signal. 		
SHARPNESS	Using the buttons ▲/▼ adjusts the sharpness. Strong ⇔ Weak		



PICTURE Menu (continued)

Item	Description
	Using the buttons ▲/▼ switches the progress mode. TV ⇔ FILM ⇔ TURN OFF
PROGRESSIVE	 This function is performed only for an interlaced signal of a VIDEO input, an S-VIDEO input or CONPONENT VODEO input of 525i (480i) or 625i (576i) signal.
	• When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select TURN OFF, even though the screen image may lose the sharpness.
MY MEMORY	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 ↓ 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 to the command's number, and adjusts the picture automatically depending on the data. Performing the SAVE1, SAVE2, SAVE3 or SAVE4 saves the current adjustment data on the memory whose number corresponds to the command's number. • The current adjustment data of the items in the PICTURE menu is stored, except for the adjustment data in the CUSTOM modes for the GAMMA and COLOR TEMP items.



IMAGE Menu

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

Select an item using the cursor buttons $\blacktriangle/\bigtriangledown$ on the projector or remote control, and press the cursor button \triangleright on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

MENU [RGB]		SELECT
PICTURE	ASPECT OVER SCAN	4:3 5
INPUT SETUP SCREEN	V POSITION H POSITION H PHASE	25 142 16
OPTION EASY MENU	H SIZE AUTO ADJUST	1344 EXECUTE
l		

Item	Description
	Using the buttons ▲/▼ switches the mode for aspect ratio.
ASPECT	For an RGB signal 4:3 ⇔ 16:9 ⇔ NORMAL 1 1
	For a video signal / no signal 4:3 ⇔ 16:9 ⇔ SMALL ↑
	• The NORMAL mode keeps the original aspect ratio of the signal.
	• For an HDTV signal of 1125i (1080i) or 750p (720p) as the COMPONENT VIDEO input, this item can't be selected.
	 Performing the automatic adjustment initializes the aspect ratio setting.
	Using the buttons ▲/▼ adjusts the over-scan ratio.
	Large (It reduces picture) ⇔ Small (It magnifies picture)
OVER SCAN	 This item can be selected only for 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
	Using the buttons ▲/▼ adjusts the horizontal phase to eliminate flicker.
H PHASE	Right ⇔ Left
	• This item can be selected only for an RGB signal or a component video signal. Note that this does not work with the input signal of 525i(480i)/625i(576i) from the component video port.



IMAGE Menu (continued)

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



INPUT Menu

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

Select an item using the cursor buttons $\blacktriangle/\bigtriangledown$ on the projector or remote control, and press the cursor button \triangleright on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

MENU [RGB]		SELECT
PICTURE	COLOR SPACE COMPONENT	
INPUT SETUP SCREEN OPTION EASY MENU	VIDEO FORMAT INFORMATION	AUTO

Item	Description
COLOR SPACE	Using the buttons ▲/▼ switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 (
	• This item can be selected only for an RGB signal or a component video signal (except signals of 525i(480i)/625i(576i) from the component video port).
	 The AUTO mode automatically selects the optimum mode. The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO.
COMPONENT	Using the buttons ▲/▼ switches the function of 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 details, contact your dealer.
VIDEO FORMAT	Using the buttons ▲/▼ switches the mode for video format. AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM È N-PAL ⇔ M-PAL ⇔ NTSC4.43 ⊄
	• This item is performed only for 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 for some signals. If the picture becomes unstable (ex. an irregular picture, a color lack), please select the mode depending on the input signal.



INPUT Menu (continued)

ltem	Description	
	Selecting this item displays a dialog titled "INPUT INFORMATION". It shows the information about the current input.	
INFORMATION	 INPUT-INFORMATION ROB 1024/768 (ge0.0 FRAME LOCK" message on the dialog means the frame lock function is working. This function automatically works when a RGB signal with vertical frequency of 50 to 60 Hz is input, and it displays a moving picture more smoothly. The "SCART RGB" message means the COMPONENT VIDEO port is working as a SCART RGB input port. Please refer to the COMPONENT item in this menu. (130) This item can't be selected for no signal and sync out. 	



SETUP Menu

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

Select an item using the cursor buttons $\blacktriangle/\bigtriangledown$ on the projector or remote control, and press the cursor button \blacktriangleright on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

MENU [RGB]		SELECT
PICTURE IMAGE INPUT SETUP SCREEN OPTION EASY MENU	WHISPER MIRROR VOLUME AUDIO	NORMAL NORMAL 16

ltem	Description	
WHISPER	 Using the buttons ▲/▼ turns off/on the whisper mode. NORMAL ⇔ WHISPER When the WHISPER is selected, acoustic noise and screen brightness are reduced. 	
MIRROR	Using the buttons ▲/▼ switches the mode for mirror status.	
VOLUME	Using the buttons ▲/▼ adjusts the volume. High ⇔ Low	
AUDIO	 Choose an input port using the buttons ▲/▼ (1), then select the audio port to be interlocked with the input port using the buttons ◄/▶ (2). When off is selected, both of two audio ports do not work for the input port. (1) RGB1 ⇔ RGB2 ⇔ COMPONENT ⇔ S-VIDEO ⇔ VIDEO (2) 1 ⇔ 2 ⇔ X 	

SCREEN Menu

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

Select an item using the cursor buttons $\blacktriangle/\bigtriangledown$ on the projector or remote control, and press the cursor button \triangleright on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

Item	Description	
	Using the buttons ▲/▼ switches the OSD (On Screen Display) language.	
	ENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⇔ ITALIANO	
LANGUAGE	いのRSK ⇔ NEDERLANDS ⇔ PORTUGUÊS ⇔ 日本語	
	简体 中文⇔ 繁體中文⇔ 한글 ⇔ SVENSKA ⇔ PYCCKИЙ 	
	SUŎMI ⇔ POLSKI ⇔ TÜRKÇE	
MENU POSITION	Using the buttons ▶/▲/▼ adjusts the menu position.<br To quit the operation, press the MENU button on the remote control or keep no operation for 10 seconds.	
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 a screen for the temporarily blanking feature (121). It is displayed by pressing the BLANK button on the remote control. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK	
BLANK	MyScreen is a screen you can register as a desired screen. The ORIGINAL screen is the existing standard screen. BLUE, WHITE and BLACK are non-patterned (plain) screens in each color.	
	• To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLACK screen after several minutes.	
	• For the MyScreen, please refer to the MyScreen item (134).	

MENU [RGB]		SELECT
PICTURE IMAGE INPUT SETUP SCREEN OPTION EASY MENU	LANGUAGE MENU POSITION OSD BRIGHT. BLANK START UP MyScreen MyScreen Lock MESSAGE	5 BLACK ORIGINAL





SCREEN Menu (continued)

Item	Description
	Using the buttons ▲/▼ switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected.
	MyScreen ⇔ ORIGINAL ⇔ TURN OFF
	ſſ
START UP	MyScreen is a screen you can register as a desired screen.The ORIGINAL screen is the existing standard screen. When TURN OFF is selected, the BLACK 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. For the BLANK screen, please refer to the BLANK item (Q33).
MyScreen	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 displayed. The picture will freeze and the frame for capturing appears. To stop performing, press the RESET or ESC button on the remote control.
	 Using the buttons <!--/--> /▲/▼ adjusts 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 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. Please try again." is displayed.
	Using the buttons ▲/▼ turns on/off the MyScreen lock function.
MyScreen Lock	TURN ON ⇔ TURN OFF When the TURN ON is selected, the item MyScreen is locked. 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 the input "Detecting" while an input signal is detected The indication of the input signal displayed by changing The indication of the aspect ration displayed by changing The indication of "FREEZE" and "II" while freezing the screen by pressing the FREEZE button. • When the TURN OFF is selected, please remember if the picture is freezing. Do not mistake freezing for a malfurction (121).	



Multifunctional settings

OPTION Menu

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

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

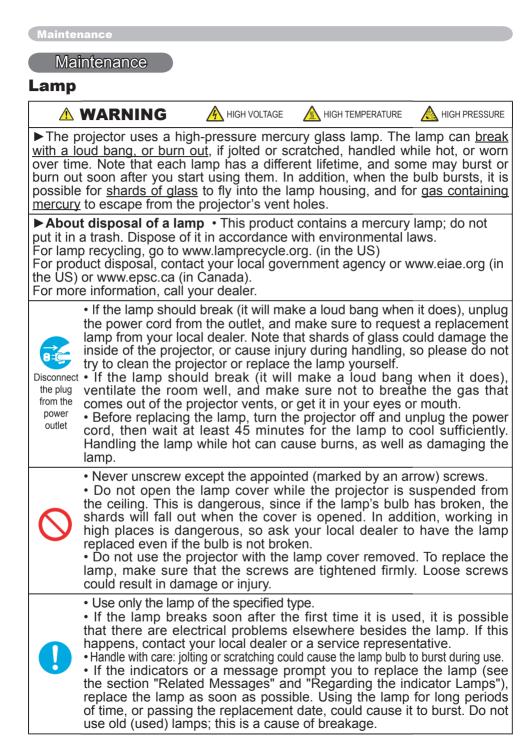
MENU [RGB]		SELECT	_
IMAGE A INPUT L SETUP F	UTO SEARCH UTO OFF AMP TIME ILTER TIME ERVICE	0 0	

Item	Description	
AUTO SEARCH AUTO SEARCH Using the buttons ▲/▼ turns on/off the automatic signal sear TURN ON ⇔ TURN OFF This function works with INPUT, RGB, and VIDEO button When the TURN ON is selected, detecting no signal autor cycles through input ports in the following order. The sear started from the current port. Then when an input is found projector will stop searching and display the image. RGB IN1 ⇔ RGB IN2 ⇔ COMPONENT VIDEO ⇔ S-VIDEO ⇒ VIDEO ↑		
AUTO OFF	Using the buttons ▲/▼ adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE) When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with no- signal or an unsuitable signal reaches at the set time, the projector lamp will go off and the power indicator begins blinking. Please refer to the section "Turning off the power" (116).	
LAMP TIME	 The lamp time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the lamp. Pressing the RESET button on the remote control or the button ▶ of the projector displays a dialog. To reset the lamp time, select the RESET using the button ▲. RESET ⇔ CANCEL Please reset the lamp time only when you have replaced the lamp, for a corresponding message about the lamp. For the lamp replacement, see the section "Lamp" (138, 39). 	
FILTER TIME	The filter time is the time counted after the last resetting. It is shown in the OPTION menu as the usage time of the air filter. Pressing the RESET button on the remote control or the button ► of the projector displays a dialog. To reset the filter time, select the RESET using the button ▲. RESET ⇔ CANCEL • Please reset the filter time only when you have cleaned or replaced the air filter, for a corresponding message about the air filter. • For the air filter cleaning, see the section "Air filter" (14 0).	

OPTION Menu (continued)

Item	Description
	Selecting this item displays the SERVICE menu. Select an item using the buttons \blacktriangle/ \lor , and press the button \blacktriangleright or the ENTER button on the remote control to execute the item. FAN SPEED \Leftrightarrow AUTO ADJUST \Leftrightarrow GHOST \Leftrightarrow KEY LOCK \Leftrightarrow FILTER MESSAG \Leftrightarrow 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 AUTO ADJUST Using the buttons ▲/▼ enables/disables the automatic adjustment.
	When DISABLE is selected, the automatic adjustment feature is disabled, although rough adjustment is automatically performed depending on the basic setting. ENABLE ⇔ DISABLE
	• Depending on conditions, such as input image, signal cable to the projector, environment around the projector, etc., the automatic adjustment may not work correctly. In such a case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually. GHOST
	 Select a color element of ghost using the buttons Adjust the selected element using the buttons ▲/▼ to disappear ghost. KEY LOCK
SERVICE	Using the buttons ▲/▼ turns on/off the key lock feature. When TURN ON is selected, the buttons on the projector except the STANDBY/ON button are locked. TURN ON ⇔ TURN OFF
	• Please use to avoid a mischief and touching accidentally. This function does not have any effect on the remote control. FILTER MESSAGE
	Use the ▲/▼ button to set the timer for the interval to show the message for cleaning up the air filter. 100h ⇔ 200h ⇔ 300h ⇔ TURN OFF ⇔ 50h
	After selecting "50h", 100h", "200h", or "300", the message "CLEAN THE AIR FILTER" will appear after the timer reaches the interval time set by the menu. Please refer to the "FILTER TIME" item (1 36) and the table "Related message" (142)
	 When the "TURN OFF" is chosen, the air-filter cleaning message will not appear. Please check and clean the air filter periodically, even if there is no message. If the air filter becomes blocked by dust or others, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector.
	 It is recommended to choose "100h" in general. Please be careful with the operating environment of the projector and the condition of air filter, especially when the "200h", "300h" or "TURN OFF" is chosen. FACTORY RESET
	Selecting RESET using the button ▲ performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME and LANGUAGE are not reset. RESET ⇔ CANCEL





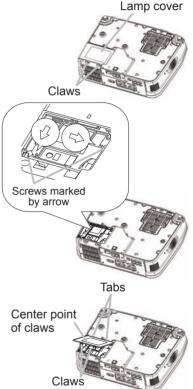
Lamp (continued)

When the indicators or a message prompt 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 = **456-8915.** If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

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 and remove the lamp cover.
- 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 the two screws that are loosened in the previous process to lock it in place.
- 7. While interlocking the 2 tabs of the lamp cover to the projector, position the lamp cover on the projector. Then push the center point of the two claws to fix the lamp cover.
- 8. Slowly turn the projector so that the top is facing up.
- 9. Turn the projector on, and reset the lamp time using the LAMP TIME function in the OPTION menu (136).



NOTE • When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER 0hr." is displayed, complete the following operation within 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.

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 the filter cover removed.

► 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.

▲**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. Please check and clean the air filter periodically, even if there is no message. 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.
- 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 the projector not to fall. While the projector is placed lens-side up, hold the projector.
- **3.** Unhooking the filter cover's claws, and pull the filter cover in the direction of the arrow to remove it.
- 4 Hold the air filter's knob, and 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 the filter cover. <u>Please replace the air filter when it is damaged or too soiled.</u> To prepare a new air filter, contact your dealer and tell the air filter type number = NJ20642.

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

- 7 Position the cleaned air filter or a new air filter into place, and push the
- PUSH" mark with claws to fix the air filter.
- **8** Replace the filter cover and snap it back into place.
- **O** Slowly turn the projector so that the top is facing up.
- **10.** Turn the projector on, and reset the filter time using the FILTER TIME function of the OPTION menu ($\square 36$).

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

Filter cover's claws

Filter cover





Air filter

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.

• Do not put a container containing water, cleaner or chemicals near the projector.

• Do not use aerosols or sprays.

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

► Do not use 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 year.

Caring for the lens

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

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

Caring for the cabinet and remote control

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

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

If soiling is severe, dip soft cloth in water or a neutral cleaner diluted in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

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 follow the instructions described below. If the same message is displayed after the remedy, 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.

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 are recommended. After you have changed the lamp, please be sure to reset the lamp timer($\square 36$).
 ☆ CHANGE THE LAMP. AFTER REPLACING LAMP. 	The time the lamp timer has counted is approaching 2000 hours, so a lamp change within ** hours is recommended.
THE POWER WILL BE TURNED OFF ** hrs later.	When lamp usage reaches 2000 hours, the power will automatically be turned off. Please change the lamp by referring to the section "Lamp". After you have changed the lamp, please be sure to reset the lamp timer(136).
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
THE POWER WILL BE TURNED OFF 0 hrs later.	by referring to the section "Lamp". After changing the lamp, please be sure to reset the lamp timer(136).
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 *** ftil *****kHz ftil *****Hz	The horizontal or vertical wavelength of the input signal is out of the response parameter range of this unit. Please confirm the specs for your projector or the signal source specs.

Related messages (continued)

Message	Description
CHECK THE AIR FLOW	 The internal temperature is rising. Please turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again. Is there blockage of the air passage aperture? Is the air filter dirty? Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.
REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK. FILTER MAINTENANCE IS ESSENTIAL TO REMOVE WARNING MESSAGE, RESET FILTER TIMER. SEE MANUAL FURTHER INFO.	A note of precaution when cleaning the air filter. Please immediately turn the power off, and clean or change the air filter referring to the "Air Filter" section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer(14 0).

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.

Troubleshooting

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 follow the instructions within the table. If the same indication is displayed after the remedy, or if an indication other than the following is displayed, please contact your dealer or service company.

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

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

NOTE • When the interior portion has become overheated, for safety purposes, the power source is automatically turned off, and the indicator lamps may also be turned off. In such a case, press the "O" (OFF) side of the power switch, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

Phenomena that may be easy to 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,

- **7** 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 the SERVICE item in the OPTION menu (137) to reset all settings to factory default.

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

Phenomenon	Cases not involving a machine defect	
	The electrical power cord is not plugged in. Correctly connect the power cord.	
	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 projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please turn the power on again.	16
	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 projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	38, 39
Sound does not come out.	The signal cables are not correctly connected. Correctly connect the audio cables.	11,12
	The MUTE function is working. Restore the sound pressing the MUTE or VOLUME button on the remote control.	17
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	17
	The AUDIO setting is not correct. Correctly set the AUDIO item in the SETUP menu.	34



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

Phenomenon	nenomenon Cases not involving a machine defect	
	The lens cap is attached. Remove the lens cap.	
	The signal cables are not correctly connected. Correctly connect the connection cables.	10, 11, 12
No pictures are displayed.	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function or the remote control.	23, 25
	The computer cannot detect the projector as a plug and play monitor. Make sure that the computer can detect a plug and play monitor using another plug and play monitor.	10,11, 12
Video screen display freezes.	The FREEZE function is working. Press the FREEZE button to restore the screen to normal.	21
Colors have a faded- out appearance, or Color tone is poor.	Color settings are not correctly adjusted. Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	23, 26, 30
	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 BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	23, 25
Pictures appear dark.	The WHISPER function is working. Select NORMAL for the WHISPER item in the SETUP menu.	23, 32
	The lamp is approaching the end of its product lifetime. Replace the lamp.	38, 39
Pictures appear blurry.	Either the focus and/or horizontal phase settings are not properly adjusted. Adjust the focus using the focus ring, and/or H PHASE using the menu function.	18, 28
	The lens is dirty or misty. Clean the lens referring to the section "Caring for the lens".	41

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

Warranty And After-Service

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 service company. They will tell you what warranty condition is applied.

Specifications

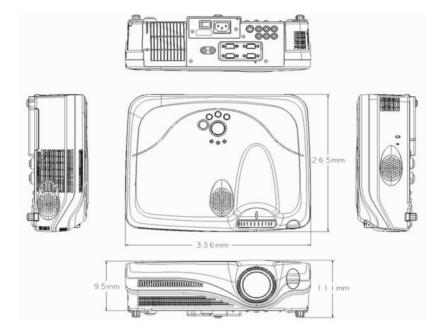
Specifications

NOTE • These specifications are subject to change without notice.

Item		Specif	ication	
Product name		Liquid crystal projector		
Liquid	Panel size	2.0 cm (0.79 type)		
Crystal panel	Drive system	TFT active matrix		
parier	Pixels	786,432 pixels (1024 horizontal	x 768 vertical)	
Lens		Zoom lens F=1.7 ~ 2	2.1 f=24.4 ~ 29.3 mm	
Lamp		230W UHB		
Speaker		1W x 1		
Power S	upply	AC100-120V/4.0A, AC220-240	//2.0A	
Power C	onsumption	370W		
Tempera	iture range	5 ~ 35°C (Operating)		
Size		336 (W) x 95 (H) x 265 (D) mm(Not including protruding parts)Please refer to the following figure.		
Weight (mass)		3.7 kg, 8.2 lb.		
Ports		RGB input: RGB IN1D-sub 15pin mini x1 RGB IN2D-sub 15pin mini x1 RGB output: RGB OUT D-sub 15pin mini x1	Video input: COMPONENT VIDEO (Y, CB/PB, CR/PR) RCA x3 S-Video	
		Audio input: AUDIO 1 Stereo mini x1 AUDIO 2 RCA x2	Communication port: CONTROLD-sub 9pin x1	
		Audio output: AUDIO OUT Stereo mini x1		
Ontional	Lamp	456-8915		
Optional parts	Air filter	NJ20642		
	Others	Please consult your dealer.		

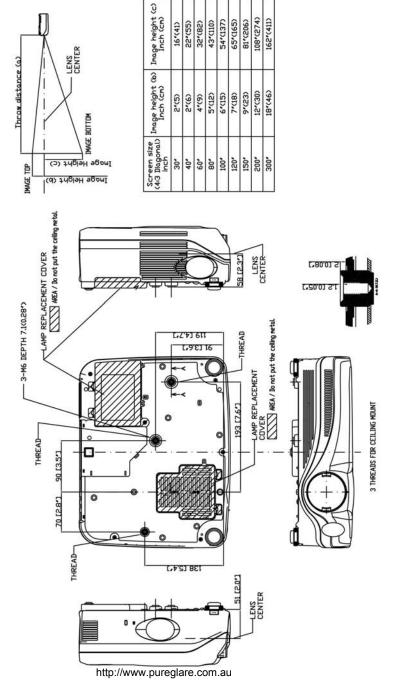


Specifications (continued)



Models 8914 & 8915

Unit mm (Inches)



nce (a) (m) Max 57'(1.1) 57'(1.4)

35*(0.9) 47*(1.2) (8.1)*17

£

Trow distance (a) Inch (m)

363*(9.2) 437*(11.1)

144*(3.7) 217*(5,5)

> 144*(3.7) 241*(6.1)

115*(2.9) 174*(4.4) 291*(7.4)

96*(2.4) 120*(3.0) 181*(4.6)

86'(2.2)

Projector 8914 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 (85Hz)
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 (85Hz)
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	91.1	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.

• 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.

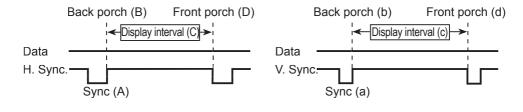
• Automatically adjustment may not function correctly with some input signals.

• The image may not be displayed correctly when the input sync signal is a composite sync or a sync on G.

Example of computer signal

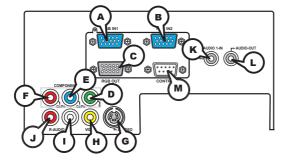
Initial set signals

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 timiı	ng (µs)	Computer/	Vertica	al signa	l timing	(lines)
Signal	(A)	(B)	(C)	(D)	Signal	(a)	(b)	(C)	(d)
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	400	1
VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10
VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	3	28	480	9
VGA (75Hz)	2.0	3.8	20.3	0.5	VGA (75Hz)	3	16	480	1
VGA (85Hz)	1.6	2.2	17.8	1.6	VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2.0	3.6	22.2	0.7	SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	3.2	2.2	20.0	1.0	SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	2.4	1.3	16.0	1.1	SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	1.6	3.2	16.2	0.3	SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	1.1	2.7	14.2	0.6	SVGA (85Hz)	3	27	600	1
Mac 16" mode	1.1	3.9	14.5	0.6	Mac 16" mode	3	39	624	1
XGA (60Hz)	2.1	2.5	15.8	0.4	XGA (60Hz)	6	29	768	3
XGA (70Hz)	1.8	1.9	13.7	0.3	XGA (70Hz)	6	29	768	3
XGA (75Hz)	1.2	2.2	13.0	0.2	XGA (75Hz)	3	28	768	1
XGA (85Hz)	1.0	2.2	10.8	0.5	XGA (85Hz)	3	36	768	1
1152 x 864 (75Hz)	1.2	2.4	10.7	0.6	1152 x 864 (75Hz)	3	32	864	1
1280 x 960 (60Hz)	1.0	2.9	11.9	0.9	1280 x 960 (60Hz)	3	36	960	1
1280 x 1024 (60Hz)	1.0	2.3	11.9	0.4	1280 x 1024 (60Hz)	3	38	1024	1
1280 x 1024 (75Hz)	1.1	1.8	9.5	0.2	1280 x 1024 (75Hz)	3	37	1024	2
1280 x 1024 (85Hz)	1.0	1.4	8.1	0.4	1280 x 1024 (85Hz)	3	44	1024	1
1600 x 1200 (60Hz)	1.2	1.9	9.9	0.4	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

5 4 8 2 **0** 0 8 8 6 6 6 7 8 9 7

At component video signal

	At RGB signal		At component video signal
Pin	Signal	Pin	Signal
1	Video Red	1	C _R /P _R
2	Video Green	2	Y
3	Video Blue	3	C _B /P _B
4	(No connection)	4	(No connection)
5	Ground	5	Ground
6	Ground Red	6	C _R /P _R Ground
7	Ground Green	7	Y Ground
8	Ground Blue	8	C _B /P _B Ground
9	(No connection)	9	(No connection)
10	Ground	10	Ground
11	(No connection)	11	
12	A: SDA (DDC data), B/C : (No connection)	2	(No connection)
13	H. sync / Composite sync.	15	
14	V. sync.	* exc	ept for RGB OUT.
15	A: SCL (DDC clock), B/C : (No connection)		



COMPONENT VIDEO DY, ECB/PB, FCR/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

GS-VIDEO

Mini DIN 4pin jack



Pin	Signal
	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

HVIDEO

RCA jack

• System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60

• 1.0±0.1Vp-p, 75Ω terminator

(CAUDIO 1-IN (Ø3.5 stereo mini jack), (D) AUDIO 2 L/R (RCA jack)

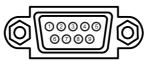
• 200mVrms(max.) 50kΩ termination

(DAUDIO OUT (Ø3.5 stereo mini jack)

• 200mVrms(max.) 1k Ω output impedance

MCONTROL

D-sub 9pin plug

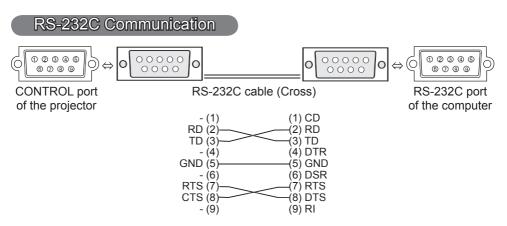


• About the details of RS-232C communication, please refer to the following page.

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)



RS-232C Communication



Connecting the cable

1 Turn off the projector and the computer.

Ι.

2. Connect the CONTROL port of the projector with a RS-232C port of the computer by a RS-232C cable (cross). 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

byte_0	byte_1	byte_2 byte_3		byte_4	byte_5	
Act	tion	Ту	ре	Setting code		
low	high	low	high	low	high	

Action (byte_0 - 1)

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

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 code, an error code 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.



Nemes		Operation Type		Header				Command I	Data	
Names		Operation Type		Tieddei			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	
	<u> </u>	Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00	
	1		(Example re				•			
			00 (Off		01 ((On		02 00			
Input Source	Set	RGB IN 1	BE EF	03		FE D2	(Cool down) 01 00	00 20	00 00	
input oource	UCL .	RGB IN 2	BE EF	03	06 00	3E D0	01 00	00 20	00 00	
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	04 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	02 00	
	\vdash	Get	BE EF	03	06 00	CD D2	01 00	00 20	00 00	
Error Status		Get	BE EF	03	06 00	D9 D8	02 00	20 60	00 00	
		Oel	(Example re		00 00	03 00	02 00	20 00	00 00	
			00 0 (Norm 04 0 (Temp e 08 0)0 nal))0 error)	01 0 (Cover e 05 0 (Air flow	error) (Fan error) (Lamp error) 00 06 00 07 00				
			(Filter e	error)						
BRIGHTNESS		Get	BE EF	03	06 00	89 D2	02 00	03 20	00 00	
		Increment	BE EF	03	06 00	EF D2	04 00	03 20	00 00	
		Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00	
BRIGHTNESS Reset		Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00	
CONTRAST		Get	BE EF	03	06 00	FD D3	02 00	04 20	00 00	
		Increment	BE EF	03	06 00	9B D3	04 00	04 20	00 00	
		Decrement	BE EF	03	06 00	4A D2	05 00	04 20	00 00	
CONTRAST Reset		Execute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00	
MODE	Set	NORMAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00	
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00	
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00	
		Get	BE EF	03	06 00	10 F6	02 00	BA 30	00 00	
			(Example re 00 00 (Normal)	Ú01	n) 01 00 04 00 10 00 (Cinema) (Dynamic) (Custom)					
GAMMA	Set	#1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00	
		#1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00	
		#2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00	
		#2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00	
		#3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00	
		#3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00	
	<u> </u>	Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	



Newse		O	[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	BE EF	03	06 00	2A FE	04 00	93 30	00 00
		Decrement	BE EF	03	06 00	FB FF	05 00	93 30	00 00
User Gamma Point 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		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		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		Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00
		Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00
		Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00



Names		Operation Type		Header				Command Data		
Names		Орегацон туре		Tieauei		CRC	Action	Type	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		BE EF	03	06 00	2F 73	04 00	03 22	00 00	
		Decrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00	
TINT Reset		Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00	
SHARPNESS		Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00	
		Increment	BE EF	03	06 00	97 72	04 00	01 22	00 00	
		Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00	
SHARPNESS Reset		Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00	
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	
	[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	
	[2	BE EF	03	06 00	62 D7	01 00	15 20	01 00	
	[3	BE EF	03	06 00	92 D7	01 00	15 20	02 00	
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00	



Names		Operation Type		Header			Command Data			
Names		Operation Type		Headel		CRC	Action	Туре	Setting Code	
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00	
	1	16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00	
		SMALL	BE EF	03	06 00	FE D1	01 00	08 20	02 00	
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00	
	<u> </u>	Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00	
OVER SCAN		Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
		Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00	
		Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00	
OVER SCAN Reset		Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00	
V POSITION		Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
		Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00	
		Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00	
V POSITION Reset		Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00	
H POSITION	1	Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00	
		Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00	
		Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00	
H POSITION Reset		Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00	
H PHASE		Get	BE EF	03	06 00	49 83	02 00	03 21	00 00	
	Increment		BE EF	03	06 00	2F 83	04 00	03 21	00 00	
		Decrement		03	06 00	FE 82	05 00	03 21	00 00	
H SIZE		Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00	
		Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00	
		Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00	
H SIZE Reset		Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00	
AUTO ADJUST		Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00	
	1	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	
	1	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	
		N-PAL	BE EF	03	06 00	0E 71	01 00	00 22	07 00	
		Get	BE EF	03	06 00	0D 73	02 00	00 22	00 00	



Names	Operation Type		Header				Command Data		
Indilles			Tieduei			CRC	Action	Туре	Setting Code
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		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
		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
	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
AUDIO - RGB1	Set	TURN OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
		Audio1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
	Ī	Audio2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
		Get	BE EF	03	06 00	CD DD	02 00	30 20	00 00
AUDIO - RGB2	Set	TURN OFF	BE EF	03	06 00	CE DC	01 00	34 20	00 00
		Audio1	BE EF	03	06 00	5E DD	01 00	34 20	01 00
		Audio2	BE EF	03	06 00	AE DD	01 00	30 20	02 00
		Get	BE EF	03	06 00	FD DC	02 00	34 20	00 00
AUDIO - Video	Set	TURN OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
	[Audio1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		Audio2	BE EF	03	06 00	62 DD	01 00	30 20	02 00
		Get	BE EF	03	06 00	31 DC	02 00	31 20	00 00
AUDIO - S-Video	Set	TURN OFF	BE EF	03	06 00	46 DC	01 00	32 20	00 00
		Audio1	BE EF	03	06 00	D6 DD	01 00	32 20	01 00
		Audio2	BE EF	03	06 00	26 DD	01 00	30 20	02 00
		Get	BE EF	03	06 00	75 DC	02 00	32 20	00 00
AUDIO - Component	Set	TURN OFF	BE EF	03	06 00	32 DD	01 00	35 20	00 00
	[Audio1	BE EF	03	06 00	A2 DC	01 00	35 20	01 00
		Audio2	BE EF	03	06 00	52 DC	01 00	30 20	02 00
		Get	BE EF	03	06 00	01 DD	02 00	35 20	00 00



Names	Operation Type		Header				Command Data			
Indifies			Headel			CRC	Action	Туре	Setting Code	
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	
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00	
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00	
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00	
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00	
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00	
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00	
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00	
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00	
		简体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00	
		繁體中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00	
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00	
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00	
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00	
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00	
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00	
		TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00	
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	
MENU POSITION H		Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
	Increment		BE EF	03	06 00	62 D7	04 00	15 30	00 00	
	Decrement		BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Reset		Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00	
MENU POSITION V	Get		BE EF	03	06 00	40 D7	02 00	16 30	00 00	
		Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
		Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Reset		Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00	



Namaa	Operation Type		llaadar				Command Data		
Names			Header			CRC	Action	Туре	Setting Code
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
	ÌÌ	ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00
		BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00
		BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00
	<u> </u>	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
	1	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
		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
	Increment		BE EF	03	06 00	6E 86	04 00	10 31	00 00
	Decrement		BE EF	03	06 00	BF 87	05 00	10 31	00 00
LAMP TIME		Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00
LAMP TIME Reset		Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00
FILTER TIME	Get		BE EF	03	06 00	C2 F0	02 00	A0 10	00 00
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

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2900 Dukane Drive St. Charles, Illinois 60174 www.dukcorp.com/av Toll-free: 800-676-2487 Fax: 630-584-5156 e-mail: avsales@dukcorp.com Audio Visual Products

