

DUKANE

**Portable LCD Projector
Models 8755D, 8755D-RJ & 8065**

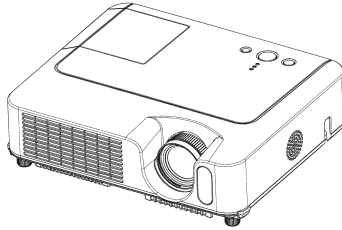


USER'S MANUAL

401-8755D-01

Projector

8755D, 8755D-RJ, & 8065 User's Manual – Operating Guide



Thank you for purchasing this projector.

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.

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Projector features

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

○ High Brightness

Newly developed 180W UHB (Ultra High Brightness) lamp gives you a higher brightness image on a screen. The image can be still kept as bright and clean enough for use in bright rooms.

○ Low Noise

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

○ Rich Connectivity

This projector has a variety of I/O ports. It can be easily connected to many signal sources like PC, DVD and so on. The rich connectivity provides you more options to make your presentation impressive.

○ Compact Body

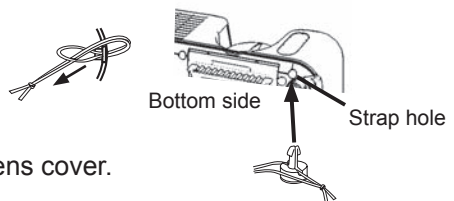
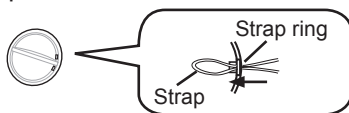
Even with its many features, this projector is extremely compact and slim, which gives you more flexibility and usability to use it where you want.

Preparations

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

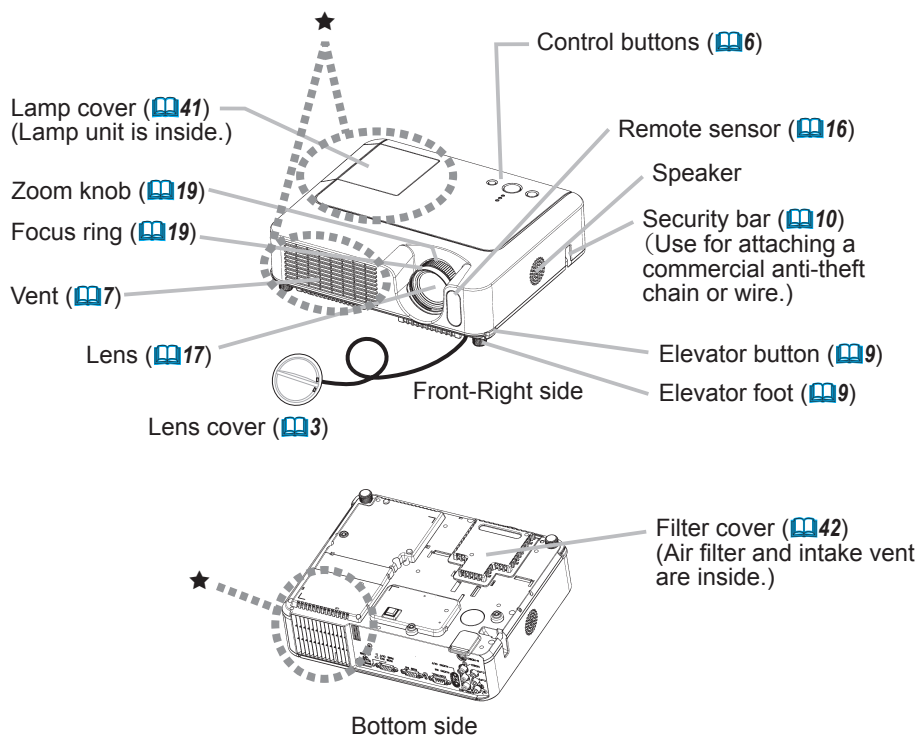
To avoid losing the lens cover, please fasten it the lens cap to the projector using the strap.



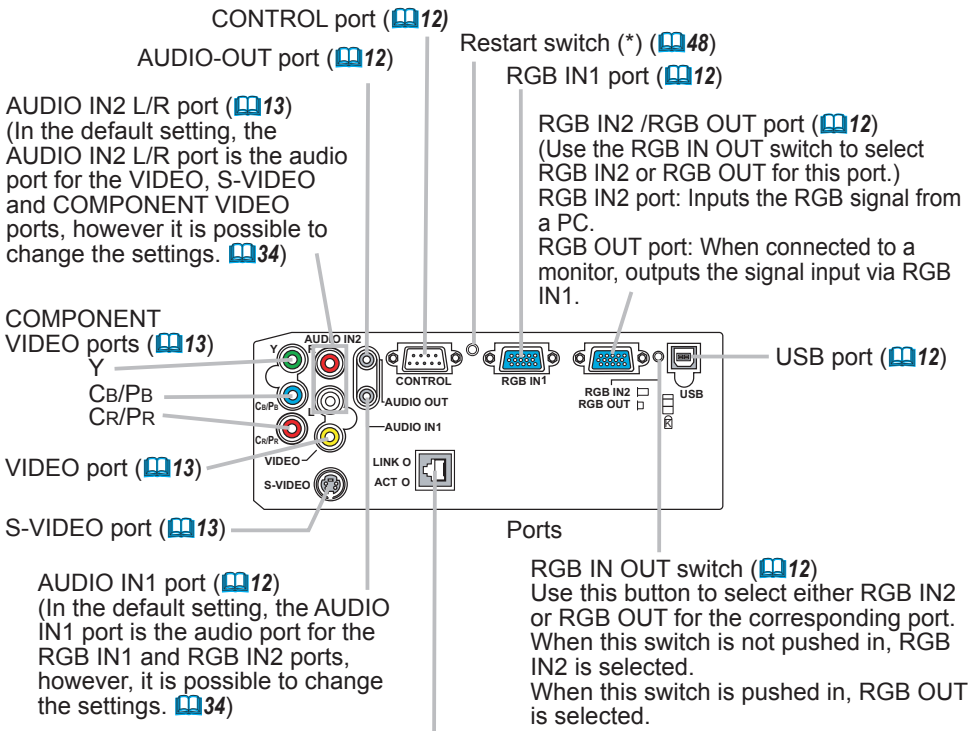
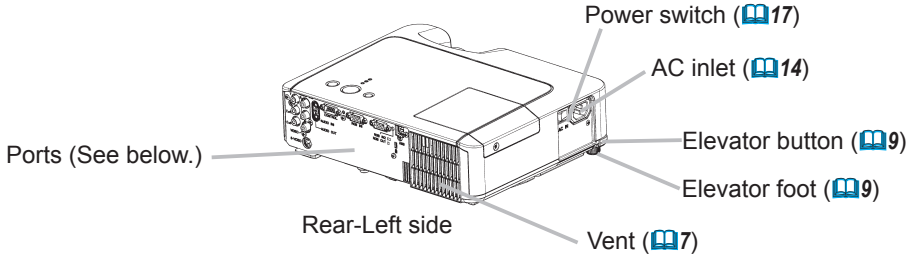
1. Fix the strap to the strap ring of the lens cover.
2. Put the strap into the groove on the rivet.
3. Push the rivet into the strap hole.

Part names

Projector



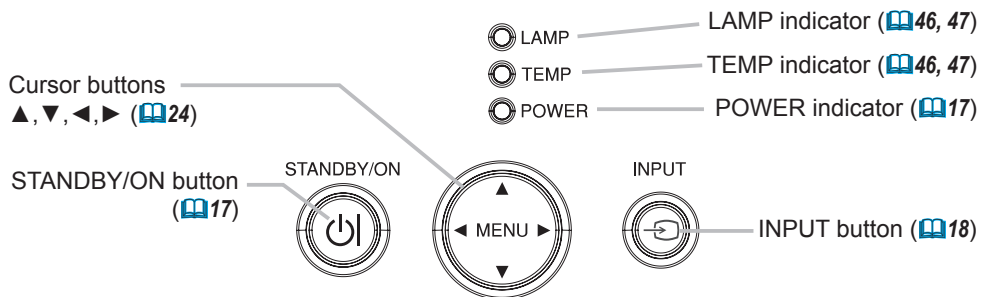
⚠ WARNING ▶ During use or immediately after use, do not touch around the lamp and vents of the projector. (★) It could cause a burn.



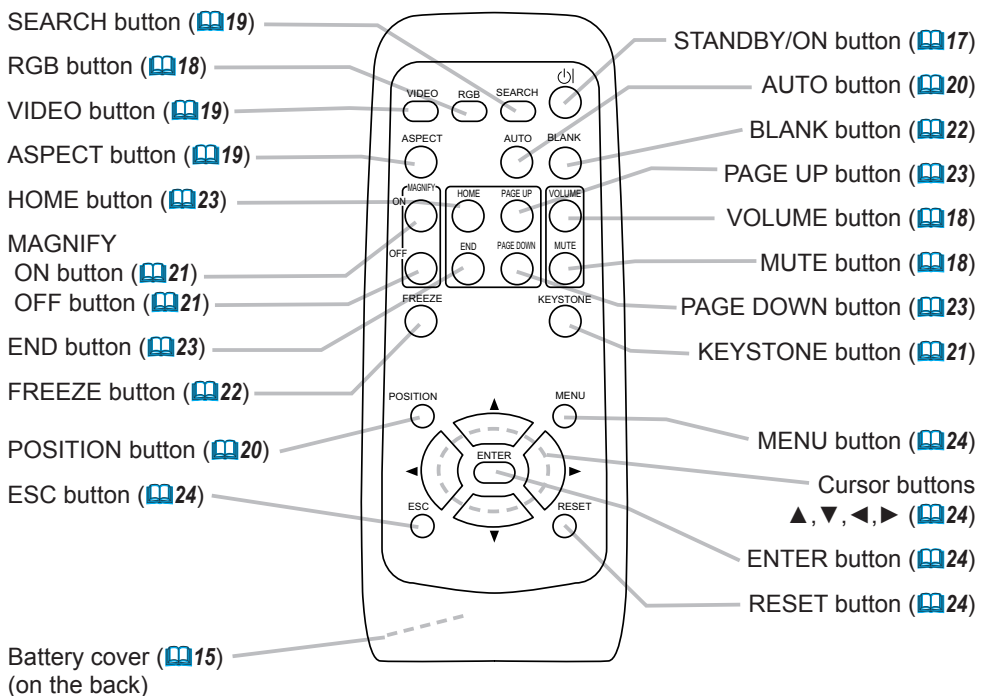
LAN Port RJ-45 Jack, **Model 8755D-RJ Only!**
 Used for Ethernet input/output.
 This port is used when utilizing network functions.

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 tooth pick or similar, and before turning on again, let the projector cool down at least 10 minutes without operating. Only push the Restart switch in these exceptional instances.

Control buttons



Remote control



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. Using a 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 when cleaning the air filter.

► 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.

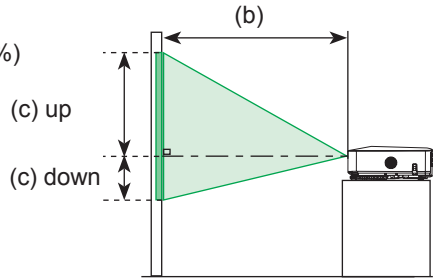
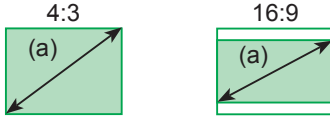
- Do not place the projector near a humidifier, a smoking space or a kitchen.
- Adjust the direction of the projector to keep the light from directly hitting the projector's remote sensor.

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: TBD : 800×600, 8755D : 1024×768

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



For the model 8065

(a) Screen size [inch (m)]	4 : 3 screen				16 : 9 screen			
	(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]		(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]	
	min.	max.	down	up	min.	max.	down	up
30 (0.8)	0.9 (36)	1.1 (43)	5 (2)	41 (16)	1.0 (39)	1.2 (47)	-1 (0)	39 (15)
40 (1.0)	1.2 (48)	1.5 (57)	6 (2)	55 (22)	1.3 (52)	1.6 (63)	-2 (-1)	51 (20)
50 (1.3)	1.5 (60)	1.8 (72)	8 (3)	69 (27)	1.7 (65)	2.0 (79)	-2 (-1)	64 (25)
60 (1.5)	1.8 (72)	2.2 (87)	9 (4)	82 (32)	2.0 (79)	2.4 (94)	-2 (-1)	77 (30)
70 (1.8)	2.1 (84)	2.6 (101)	11 (4)	96 (38)	2.3 (92)	2.8 (110)	-3 (-1)	90 (35)
80 (2.0)	2.4 (96)	2.9 (116)	12 (5)	110 (43)	2.7 (105)	3.2 (126)	-3 (-1)	103 (41)
90 (2.3)	2.8 (109)	3.3 (130)	14 (5)	123 (49)	3.0 (118)	3.6 (142)	-4 (-1)	116 (46)
100 (2.5)	3.1 (121)	3.7 (145)	15 (6)	137 (54)	3.3 (132)	4.0 (158)	-4 (-2)	129 (51)
120 (3.0)	3.7 (145)	4.4 (174)	18 (7)	165 (65)	4.0 (158)	4.8 (190)	-5 (-2)	154 (61)
150 (3.8)	4.6 (182)	5.5 (218)	23 (9)	206 (81)	5.0 (198)	6.0 (238)	-6 (-2)	193 (76)
200 (5.1)	6.2 (242)	7.4 (291)	30 (12)	274 (108)	6.7 (264)	8.1 (317)	-8 (-3)	257 (101)
250 (6.4)	7.7 (303)	9.3 (364)	38 (15)	343 (135)	8.4 (330)	10.1 (397)	-10 (-4)	322 (127)
300 (7.6)	9.2 (364)	11.1 (437)	46 (18)	411 (162)	10.1 (397)	12.1 (476)	-12 (-5)	386 (152)

For the model 8755D & 8755D-RJ

(a) Screen size [inch (m)]	4 : 3 screen				16 : 9 screen			
	(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]		(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]	
	min.	max.	down	up	min.	max.	down	up
30 (0.8)	0.9 (36)	1.1 (43)	5 (2)	41 (16)	1.0 (39)	1.2 (47)	-1 (0)	39 (15)
40 (1.0)	1.2 (48)	1.5 (58)	6 (2)	55 (22)	1.3 (52)	1.6 (63)	-2 (-1)	51 (20)
50 (1.3)	1.5 (60)	1.8 (73)	8 (3)	69 (27)	1.7 (66)	2.0 (79)	-2 (-1)	64 (25)
60 (1.5)	1.8 (73)	2.2 (87)	9 (4)	82 (32)	2.0 (79)	2.4 (95)	-2 (-1)	77 (30)
70 (1.8)	2.2 (85)	2.6 (102)	11 (4)	96 (38)	2.4 (93)	2.8 (111)	-3 (-1)	90 (35)
80 (2.0)	2.5 (97)	3.0 (117)	12 (5)	110 (43)	2.7 (106)	3.2 (127)	-3 (-1)	103 (41)
90 (2.3)	2.8 (109)	3.3 (132)	14 (5)	123 (49)	3.0 (119)	3.6 (143)	-4 (-1)	116 (46)
100 (2.5)	3.1 (122)	3.7 (146)	15 (6)	137 (54)	3.4 (133)	4.0 (159)	-4 (-2)	129 (51)
120 (3.0)	3.7 (146)	4.5 (176)	18 (7)	165 (65)	4.0 (159)	4.9 (192)	-5 (-2)	154 (61)
150 (3.8)	4.6 (183)	5.6 (220)	23 (9)	206 (81)	5.1 (200)	6.1 (240)	-6 (-2)	193 (76)
200 (5.1)	6.2 (244)	7.5 (294)	30 (12)	274 (108)	6.8 (266)	8.1 (320)	-8 (-3)	257 (101)
250 (6.4)	7.8 (306)	9.3 (367)	38 (15)	343 (135)	8.5 (333)	10.2 (400)	-10 (-4)	322 (127)
300 (7.6)	9.3 (367)	11.2 (441)	46 (18)	411 (162)	10.2 (400)	12.2 (480)	-12 (-5)	386 (152)

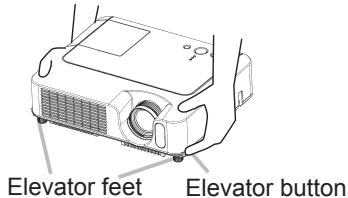
Adjusting the projector's elevator

⚠ 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.



1. After making sure that the projector is cool adequately, press and hold in the elevator buttons while holding the projector.
The elevator buttons and the elevator feet are on the both sides.
2. Raise or lower the projector to the desired height and release the elevator buttons.
When you release the elevator buttons, the elevator feet will lock into position.
3. If necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.

Using the Security Bar

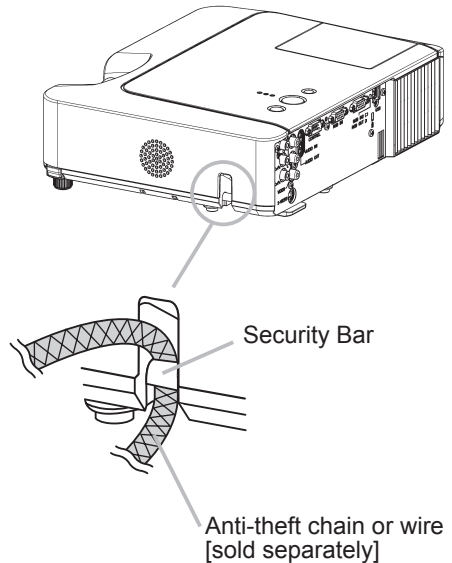
⚠ WARNING ► Do not use the security bar to prevent the projector from falling. Dropping or knocking over the projector may cause damage or injury.

⚠ CAUTION ► The security bar is not a comprehensive theft prevention measure. It is intended to be used as an extra theft prevention measure.

A commercial anti-theft chain or wire can be attached to the security bar on the projector.

1. How to attach

An anti-theft chain or wire can be attached as shown in the illustration. (Anti-theft chains or wires of up to 10mm in diameter can be used)



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.

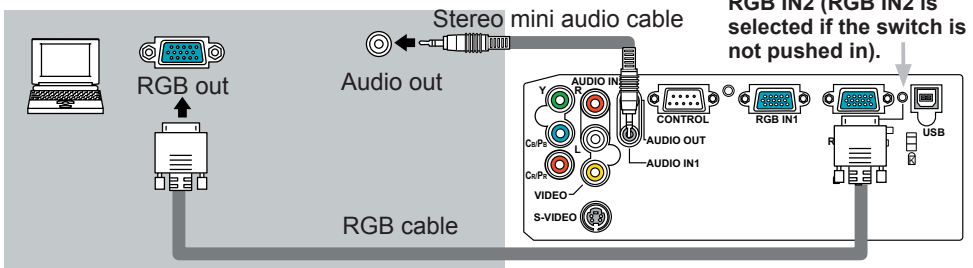
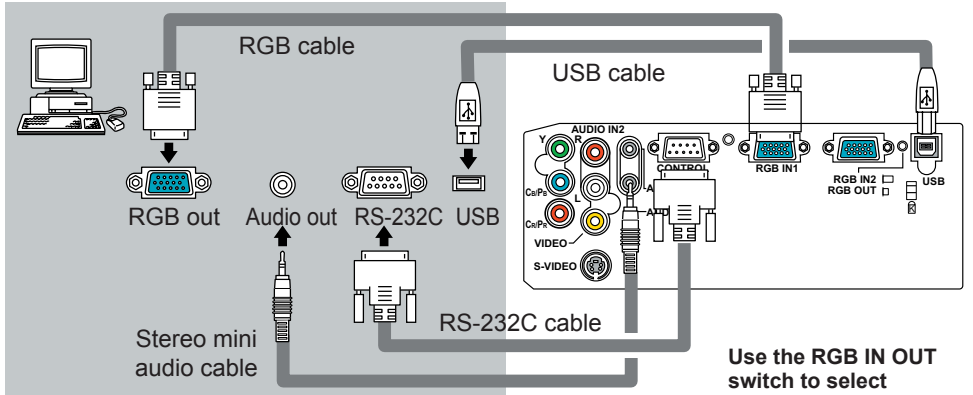
About Plug-and-Play capability

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.

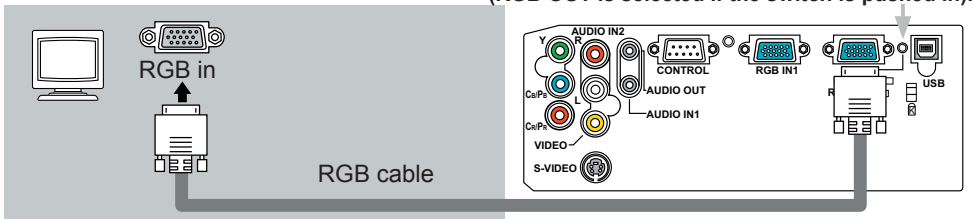
Examples of connection with a computer

* In the default setting, the AUDIO IN1 port is the audio port for the RGB IN1 and RGB IN2 ports. To change the settings, refer to the AUDIO item in the SETUP menu. (p.34)

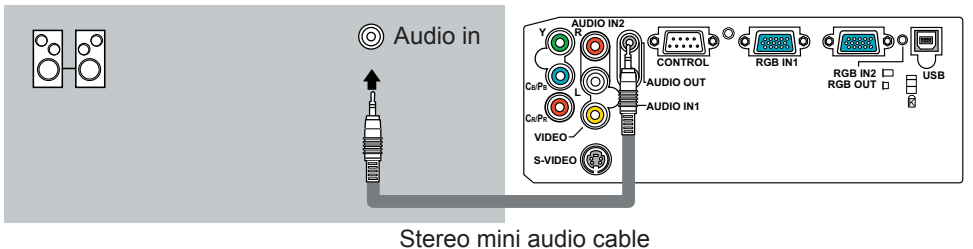


Connecting to a monitor (output)

Use the RGB IN OUT switch to select RGB OUT (RGB OUT is selected if the switch is pushed in).

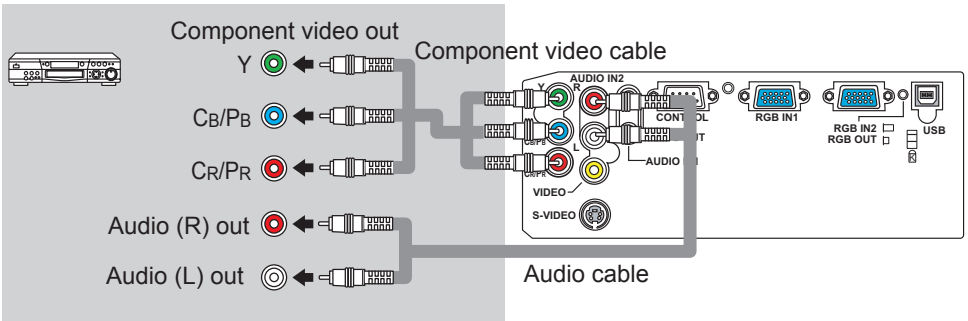
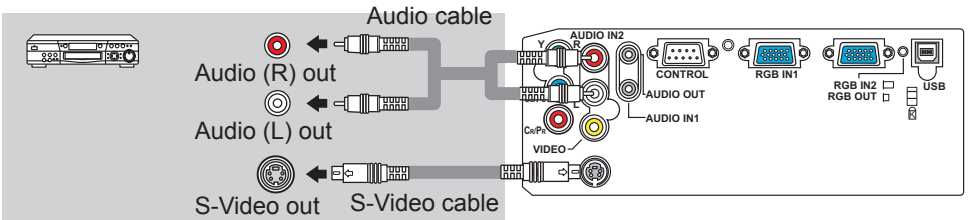
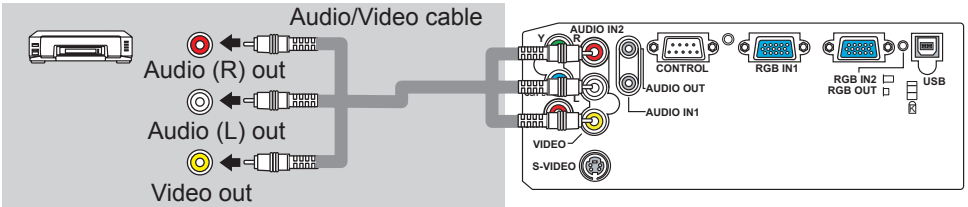


Connecting to a speaker with amplifier (output)

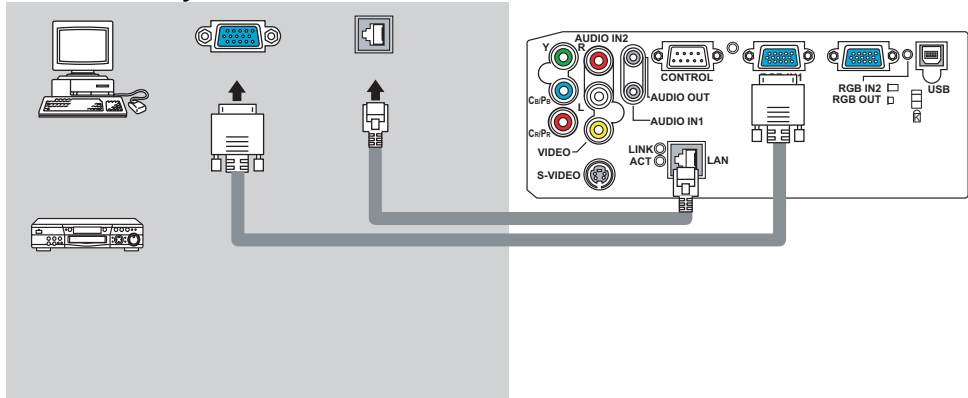


Examples of connection with a VCR/DVD player

* In the default setting, the AUDIO IN2 L/R port is the audio port for the VIDEO, S-VIDEO and COMPONENT VIDEO ports. To change the settings, refer to the AUDIO item in the SETUP menu. (34)



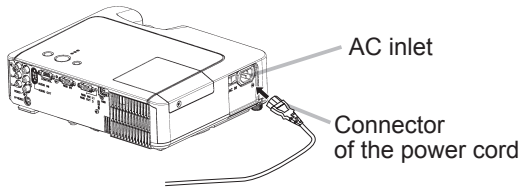
8755D-RJ Only!



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.



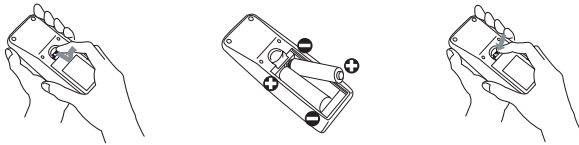
1. Connect the connector of the power cord to the AC inlet of the projector.
2. Firmly plug the power cord's plug into the outlet.

Remote control

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 flow and then replace a battery. If the liquid adheres to your body or clothes, rinse well with water immediately.



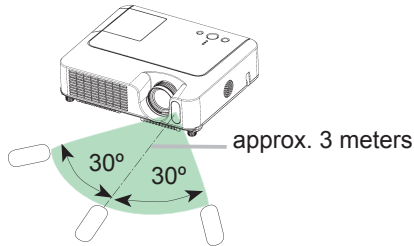
1. Remove the battery cover.
Slide back and remove the battery cover in the direction of the arrow.
2. Insert the batteries.
Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control.
3. Close the battery cover.
Replace the battery cover in the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

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.

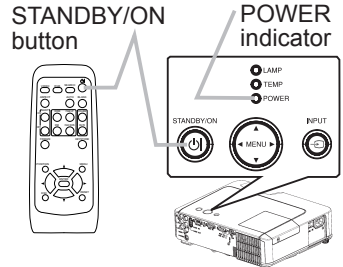
Power on/off

⚠ 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.

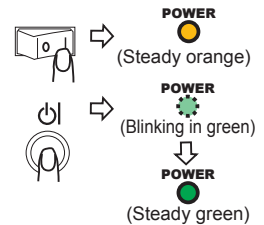
NOTE • Turn the power on/off in right order. Please power on the projector prior to the connected devices. Power off the projector later than the connected devices.

Turning on the power

1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.
2. Remove the lens cover, and set the power switch to the ON position.
The power indicator will light up in steady orange. Then wait several seconds because the buttons may not function for these several seconds.
3. Press the STANDBY/ON button on the projector or the remote control.
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" (18).



Turning off the power

This product is able to turn off the main power during the cooling. However, please pay special attention to below two points when you do:

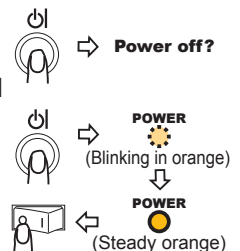
- (1) Please do not turn the projector on again for at least 1 minute in this case.
Neglect could shorten the lifetime of the lamp.
- (2) During use or immediately after use, do not touch around the lamp and vents of the projector (14 ★) It could cause a burn.

1. 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.

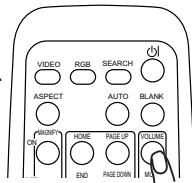
3. Make sure that the power indicator lights in steady orange, and set the power switch to the OFF position. The POWER indicator will go off. Attach the lens cover.



Operating

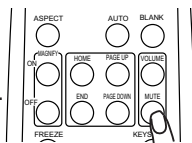
Adjusting the volume

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



Temporarily muting the sound

1. Press the MUTE button on the remote control.
A dialog will appear on the screen indicating that you have muted the sound.
To restore the sound, press the MUTE or VOLUME button.
Even if you don't do anything, the dialog will automatically disappear after a few seconds.



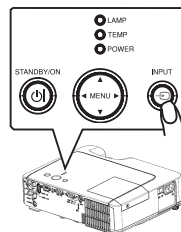
Selecting an input signal

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



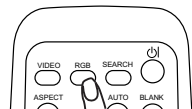
- When the RGB IN2/RGB OUT port functions as an RGB out port (the RGB IN OUT switch is pushed in), RGB IN2 cannot be selected. In that case “RGB2/RGB OUT ⇒ RGB OUT” message will be displayed.

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

- If the RGB button is pushed (when switching from VIDEO to RGB signals) when TURN ON is selected for the AUTO SEARCH item in the OPTION menu the projector will check the RGB IN1 port first. If no input is detected at the port, the projector will check the RGB IN2 port.
- When the RGB IN2/RGB OUT port functions as an RGB out port (the RGB IN OUT switch is pushed in), RGB IN2 cannot be selected. In that case “RGB2/RGB OUT ⇒ RGB OUT” message will be displayed.

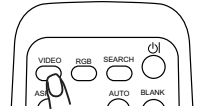


Selecting an input signal (continued)

1. 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



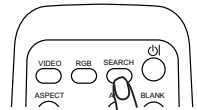
- If the VIDEO button is pushed (when switching from RGB to VIDEO signals) when TURN ON is selected for the AUTO SEARCH item in the OPTION menu the projector will check the COMPONENT VIDEO port first. If no input is detected at the port, projector will begin to check other ports in above order.

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



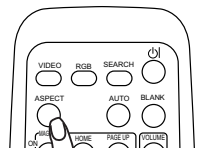
Selecting an aspect ratio

1. Press the ASPECT button on the remote control. Each time you press the button, the projector switches the mode for aspect ratio in turn.

○ For an RGB signal
NORMAL → 4:3 → 16:9



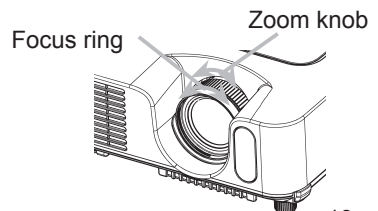
○ For a video signal/no signal
4:3 → 16:9 → SMALL



- 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, only 16:9 mode can be selected.
- Performing the automatic adjustment initializes the aspect ratio setting.

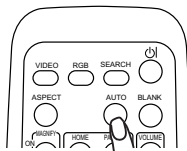
Adjusting the zoom and focus

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



Using the automatic adjustment feature

1. Press the AUTO button on the remote control.



○ 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 (32). 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

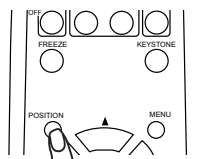
The aspect ratio will be automatically selected.

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.

Adjusting the position

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



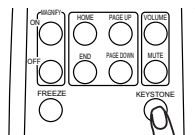
When you want to reset the operation, press the RESET button on the remote control during the operation.

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

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

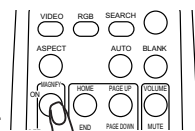
Correcting the keystone distortions

1. Press the KEYSTONE button on the remote control. A dialog will appear on the screen to aid you in correcting the distortion.
2. 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.



Using the magnify feature

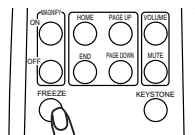
1. Press the ON button of MAGNIFY on the remote control. The "MAGNIFY" indication will appear on the screen (although the indication will disappear in several seconds with no operation), and the projector will enter the MAGNIFY mode.
2. Use the cursor buttons ▲/▼ to adjust the zoom level. To move the zoom area, press the POSITION button in the MAGNIFY mode, then use the cursor buttons ▲/▼/◀/▶ 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.

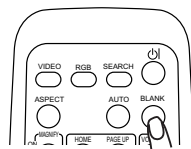


- The projector automatically exits the FREEZE mode when the input signal changes, or when one of the projector’s buttons or the remote control buttons of STANDBY/ON, SEARCH, RGB, VIDEO, BLANK, AUTO, ASPECT, VOLUME, MUTE, KEYSTONE, POSITION and MENU is pressed.
- If the projector continues projecting a still image for long time, the LCD panel might possibly be printed. Do not leave the projector in 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 (p.35).

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.

Operating the computer screen

⚠ CAUTION ▶ Mistaken use of the mouse/keyboard control could damage your equipment.

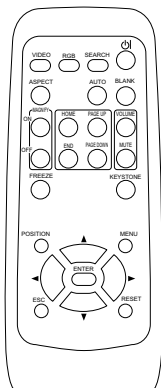
- While using this function, please connect only with a computer.
- Before connecting, read the manuals of the computer you will connect.

NOTE • It may not be possible to control notebook PC, and other computers with built-in pointing device (e.g. track ball), using this remote control. In this case, before connecting go into BIOS (system setup) and select external mouse, and disable the pointing device. In addition, the mouse may not function if the computer does not have the needed utility program. See your computer's hardware manual for details.

- The USB control can be used with Windows 95 OSR 2.1 or higher. It may not be possible to use the remote control, depending on the computer's configurations and mouse drivers.
- The USB control can be used only for the functions listed below. You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).
- This function is not available while the lamp is warming up (the POWER indicator flashes green), and while adjusting the volume and display, correcting for trapezoidal distortion, zooming in on the screen, using the BLANK function, or displaying the menu screen.

USB mouse and keyboard control

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

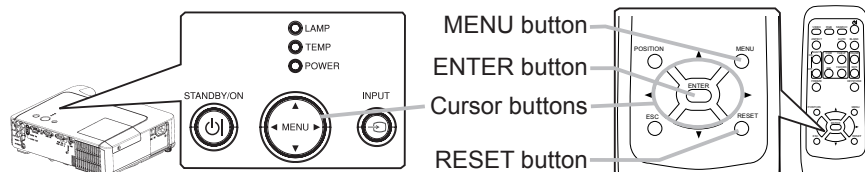


Available function	Remote control operation
Move pointer	Use ▲, ▼, ◀, ▶ buttons
Left click with mouse	Press ENTER button
Right click with mouse	Press RESET button
Press keyboard's HOME key	Press HOME button
Press keyboard's END key	Press END button
Press keyboard's PAGE UP key	Press PAGE UP button
Press keyboard's PAGE DOWN key	Press PAGE DOWN button
Press keyboard's ESC key	Press ESC button

Multifunctional settings

Using the menu function

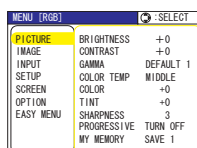
This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION, and EASY MENU. EASY MENU consists of functions often used, and the other menus are classified into each purpose. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.



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.

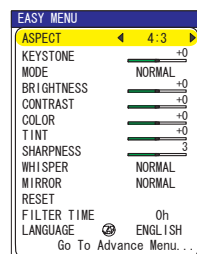
In the EASY MENU

2. If you want to change it to the Advanced MENU, select the "Go to Advanced Menu"
3. Use the cursor buttons ▲/▼ to select an item to operate.
4. Use the cursor buttons ◀/▶ to operate the item.



In the Advanced MENU

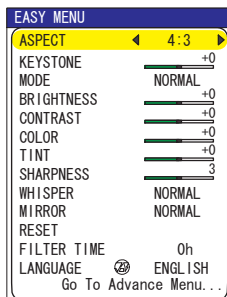
2. Use the cursor buttons ▲/▼ to select a menu.
If you want to change it to the EASY MENU, select the EASY MENU.
Then press the cursor button ▶ on the projector or remote control, or the ENTER button on the remote control to select an item. The display of the selected menu will be active.
3. Use the cursor buttons ▲/▼ 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 ▲/▼ 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, VOLUME etc.) cannot be reset.
 - In the advanced menu, when you want to return to the previous display, press the cursor button ◀ on the projector or remote control, or the ESC button on the remote control.
5. 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 ▲/▼ on the projector or remote control. Then perform it referring to the following table.






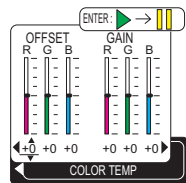
Item	Description
ASPECT	Using the buttons ◀/▶ switches the mode for aspect ratio. See the ASPECT item in the IMAGE menu (📖30).
KEYSTONE	Using the buttons ◀/▶ corrects the keystone distortion. See the item KEYSTONE of section SETUP menu. (📖21)
MODE	Using the buttons ◀/▶ switches the mode of picture type. 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 (📖27) and COLOR TEMP (📖28) 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 (📖27).
CONTRAST	Using the buttons ◀/▶ adjusts the contrast. See the item CONTRAST of section PICTURE menu (📖27).
COLOR	Using the buttons ◀/▶ adjusts the strength of whole color. See the COLOR item in the PICTURE menu (📖28).
TINT	Using the buttons ◀/▶ adjusts the tint. See the TINT item in the PICTURE menu (📖28).
SHRPNES	Using the buttons ◀/▶ adjusts the sharpness. See the SHARPNESS item in the PICTURE menu (📖28). • There may be some noise when an adjustment is made. This is not a malfunction.
WHISPER	Using the buttons ◀/▶ turns off/on the whisper mode. See the WHISPER item in the SETUP menu (📖34).

EASY Menu (continued)

Item	Description
MIRROR	Using the buttons ◀/▶ switches the mode for mirror status. See the MIRROR item in the SETUP menu (📄34).
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 (📄38).
LANGUAGE	Select the LANGUAGE item to toggle the menu language. Refer to description of LANGUAGE in the SCREEN menu (📄35).
Go To Advanced Menu	Select “Go To Advanced Menu” to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN or OPTION.

PICTURE Menu (continued)

Item	Description
<p>COLOR TEMP</p>	<p>Using the buttons ▲/▼ switches the mode of color temperature. HIGH ⇔ MIDDLE ⇔ LOW ⇔ CUSTOM </p> <p>To adjust CUSTOM</p> <p>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.</p> <p>OFFSET adjustments change the color intensity on the whole tones of the test pattern.</p> <p>GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern.</p> <p>Choose an item using the buttons ◀/▶, and adjust the level using the buttons ▲/▼.</p> <p>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.</p> <p>No pattern ⇔ Gray scale of 9 steps   Ramp ⇔ Gray scale of 15 steps</p> <ul style="list-style-type: none"> • When this function is performed, a certain extra such as a line may appear.
<p>COLOR</p>	<p>Using the buttons ▲/▼ adjusts the strength of whole color. Strong ⇔ Weak</p> <ul style="list-style-type: none"> • This item can be selected only for a video signal.
<p>TINT</p>	<p>Using the buttons ▲/▼ adjusts the tint. Green ⇔ Red</p> <ul style="list-style-type: none"> • This item can be selected only for a video signal except for SECAM.
<p>SHARPNESS</p>	<p>Using the buttons ▲/▼ adjusts the sharpness. Strong ⇔ Weak</p> <ul style="list-style-type: none"> • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.



PICTURE Menu (continued)

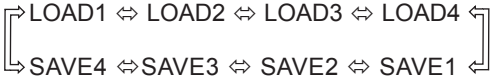
Item	Description
PROGRESSIVE	<p>Using the buttons ▲/▼ switches the progress mode. TV ⇄ FILM ⇄ TURN OFF</p> <ul style="list-style-type: none"> • This function is performed only for an interlaced signal of a VIDEO input, an S-VIDEO input or COMPONENT VIDEO input of 525i (480i) or 625i (576i) signal. • 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	<p>Selecting a mode of MY MEMORY using the buttons ▲/▼ and then pressing the button ► or the ENTER button performs each function.</p> <div style="text-align: center;">  <p>LOAD1 ⇄ LOAD2 ⇄ LOAD3 ⇄ LOAD4 SAVE4 ⇄ SAVE3 ⇄ SAVE2 ⇄ SAVE1</p> </div> <p>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.</p> <ul style="list-style-type: none"> • 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. • There may be some noise and/or the screen may flicker for a moment when data is loaded to memory. This is not a malfunction.

IMAGE Menu

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

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


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

Item	Description
ASPECT	<p>Using the buttons ▲/▼ switches the mode for aspect ratio.</p> <p>For an RGB signal 4:3 ⇄ 16:9 ⇄ NORMAL ↑—————↑</p> <p>For a video signal / no signal 4:3 ⇄ 16:9 ⇄ SMALL ↑—————↑</p> <ul style="list-style-type: none"> • 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.
OVER SCAN	<p>Using the buttons ▲/▼ adjusts the over-scan ratio.</p> <p>Large (It reduces picture) ⇄ Small (It magnifies picture)</p> <ul style="list-style-type: none"> • 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	<p>Using the buttons ▲/▼ adjusts the vertical position.</p> <p>Up ⇄ Down</p> <ul style="list-style-type: none"> • Over-adjusting the vertical position may cause noise to appear on the screen. If this occurs please reset the vertical position to the default setting. Pressing the RESET button when V POSITION is selected will reset the V POSITION to the default setting.
H POSITION	<p>Using the buttons ▲/▼ adjusts the horizontal position.</p> <p>Left ⇄ Right</p> <ul style="list-style-type: none"> • Over-adjusting the horizontal position may cause noise to appear on the screen. If this occurs please reset the horizontal position to the default setting. Pressing the RESET button when H POSITION is selected will reset the H POSITION to the default setting.
H PHASE	<p>Using the buttons ▲/▼ adjusts the horizontal phase to eliminate flicker.</p> <p>Right ⇄ Left</p> <ul style="list-style-type: none"> • 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)/SCART RGB from the component video port.

IMAGE Menu (continued)

Item	Description
H SIZE	<p>Using the buttons ▲/▼ adjusts the horizontal size. Large ↔ Small</p> <ul style="list-style-type: none"> • 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.
AUTO ADJUST EXECUTE	<p>Selecting this item performs the automatic adjustment feature.</p> <p>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.</p> <p>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.</p> <p>For a video signal, s-video signal or component video signal The vertical position and horizontal position will be automatically adjusted.</p> <p>For a component video signal The aspect ratio will be automatically selected. The clock phase will be automatically adjusted.</p> <ul style="list-style-type: none"> • The automatic adjustment operation requires approximately 10 seconds. Also please note that it may not function correctly with some input.

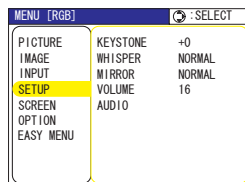
INPUT Menu (continued)

Item	Description
INFORMATION	<p>Selecting this item displays a dialog titled “INPUT INFORMATION”. It shows the information about the current input.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;"> <small>◀ INPUT-INFORMATION</small> RGB 1024x768 @60.0 FRAME LOCK </div> <div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;"> <small>◀ INPUT-INFORMATION</small> S-VIDEO SECAM AUTO </div> <div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;"> <small>◀ INPUT-INFORMATION</small> COMPONENT 576i @60 SCART RGB </div> </div> <ul style="list-style-type: none"> • The “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. ( 32) • 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 ▲/▼ on the projector or remote control, and press the cursor button ► on the projector or remote control, or the ENTER button on the remote control to execute the item. Then perform it referring to the following table.

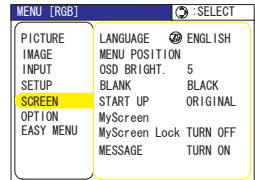


Item	Description
KEYSTONE	<p>Using the buttons ▲/▼ corrects the keystone distortion. Upper in the data ⇔ Lower in the data</p> <ul style="list-style-type: none"> The adjustable range of this function will vary with the type of input signal. At some signals, this function may not work well. When the V:INVERT or the H&V:INVERT is selected under the item MIRROR, if the projector screen is inclined or if the projector is angled downward, this function may not work correctly. When the zoom adjustment is set to the TELE side, this correction may be excessive. This function should be used with zoom set to WIDE whenever possible.
WHISPER	<p>Using the buttons ▲/▼ turns off/on the whisper mode. NORMAL ⇔ WHISPER</p> <ul style="list-style-type: none"> When the WHISPER is selected, acoustic noise and screen brightness are reduced.
MIRROR	<p>Using the buttons ▲/▼ switches the mode for mirror status.</p> <p>NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&V:INVERT</p>
VOLUME	<p>Using the buttons ▲/▼ adjusts the volume. High ⇔ Low</p>
AUDIO	<p>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.</p> <p>(1) RGB1 ⇔ RGB2 ⇔ COMPONENT ⇔ S-VIDEO ⇔ VIDEO (2) 1 ⇔ 2 ⇔ ✕</p>

SCREEN Menu

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

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



Item	Description
LANGUAGE	<p>Using the buttons ▲/▼ switches the OSD (On Screen Display) language.</p> <p>ENGLISH ⇄ FRANÇAIS ⇄ DEUTSCH ⇄ ESPAÑOL ⇄ ITALIANO</p> <p>NORSK ⇄ NEDERLANDS ⇄ PORTUGUÊS ⇄ 日本語</p> <p>简体中文 ⇄ 繁體中文 ⇄ 한글 ⇄ SVENSKA ⇄ РУССКИЙ</p> <p>SUOMI ⇄ POLSKI ⇄ TÜRKÇE</p>
MENU POSITION	<p>Using the buttons ◀/▶/▲/▼ adjusts the menu position. To quit the operation, press the MENU button on the remote control or keep no operation for 10 seconds.</p>
OSD BRIGHT.	<p>Using the buttons ▲/▼ switches the brightness level of the OSD (On Screen Display).</p> <p>BRIGHT ⇄ DARK</p>
BLANK	<p>Using the buttons ▲/▼ switches the mode for the blank screen. The blank screen is a screen for the temporarily blanking feature (📄22). It is displayed by pressing the BLANK button on the remote control.</p> <p>MyScreen ⇄ ORIGINAL ⇄ BLUE ⇄ WHITE ⇄ BLACK</p> <p>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.</p> <ul style="list-style-type: none"> 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 (📄36).

SCREEN Menu (continued)

Item	Description
<p>START UP</p>	<p>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.</p> <p>MyScreen ⇔ ORIGINAL ⇔ TURN OFF</p> <p style="text-align: center;">↑—————↑</p> <p>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.</p> <ul style="list-style-type: none"> • 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 (35).
<p>MyScreen</p>	<p>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.</p> <ol style="list-style-type: none"> 1. 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. 2. Using the buttons ◀/▶/▲/▼ adjusts the frame position. Please move the frame to the position of the picture which you want to use. The frame may not be able to be moved for some input signals. To start registration, press the ENTER button on the remote control. To restore the screen and return to the previous dialog, press the RESET or ESC button on the remote control. <p>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.</p>
<p>MyScreen Lock</p>	<p>Using the buttons ▲/▼ turns on/off the MyScreen lock function.</p> <p>TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen.</p>

SCREEN Menu (continued)

Item	Description
MESSAGE	<p>Using the buttons ▲/▼ turns on/off the message function. TURN ON ⇔ TURN OFF</p> <p>When the TURN ON is selected, the following message function works.</p> <p>“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.</p> <ul style="list-style-type: none"> • When the TURN OFF is selected, please remember if the picture is freezing. Do not mistake freezing for a malfunction (📺22).

Maintenance

Lamp

**WARNING**

HIGH VOLTAGE



HIGH TEMPERATURE



HIGH PRESSURE

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

► **About disposal of a lamp** • This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws. For lamp recycling, go to www.lamprecycle.org. (in the US) For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada). For more information, call your dealer.



Disconnect the plug from the power outlet

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

- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Never unscrew except the appointed (marked by an arrow) screws.
- Do not open the lamp cover while the projector is suspended from the ceiling. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. To replace the lamp, make sure that the screws are tightened firmly. Loose screws could result in damage or injury.



- Use only the lamp of the specified type.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Lamp (continued)

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

To prepare a new lamp, contact your dealer and tell the lamp type number.

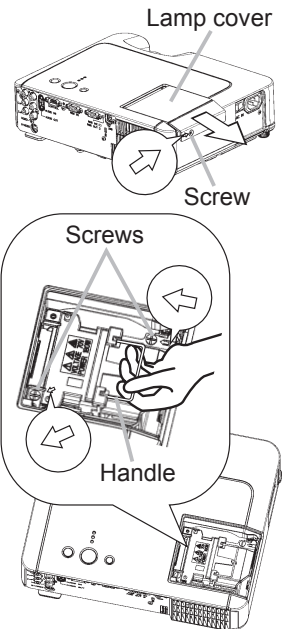
Type number = DT00731.

1. Turn the projector off, and unplug the power cord. Allow the lamp to cool for at least 45 minutes.
2. Prepare a new lamp.
 - 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. Loosen the lamp cover screw (marked by arrow) and then slide the lamp cover to the side to remove it.
4. Loosen the 2 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handles.
5. Insert the new lamp, and retighten firmly the two screws that are loosened in the previous process to lock it in place.
6. Slide the lamp cover back in place and firmly fasten the lamp cover screws.
7. Turn the projector on and reset the lamp time using the LAMP TIME function in the OPTION menu (38).

- (1) Press the MENU button to display a menu. Only when the EASY MENU has appeared, please perform the next step (2).
- (2) Point at the "Go To Advance Menu ..." in the menu using ▼/▲ button, then press the ► button.
- (3) Point at the "OPTION" in the left column of the menu using ▼/▲ button, then press the ► button.
- (4) Point at the "LAMP TIME" using ▼/▲ button, then press the ► button. A dialog will appear.
- (5) Press the ▲ button to select "RESET" on the dialog. It performs resetting the lamp time.



NOTE • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

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 an electric shock, 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. It could result in a fire and/or malfunction to the projector.

▶ The air filter should be cleaned periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn and/or malfunction to the projector.

NOTE • Please replace the air filter when it is damaged or too soiled, and also when you replace the lamp.

• Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter. (📖38)

• The projector may display the message such as “CHECK THE AIR FLOW” or turn off the projector, to prevent the internal heat level rising.

If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn and/or malfunction to the projector. When the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible.

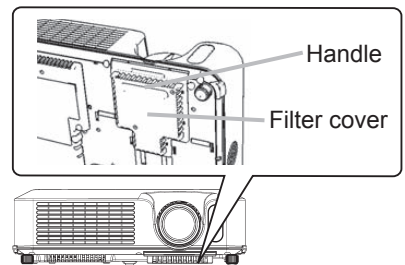
Please check and clean the air filter periodically, even if there is no message. Please replace the air filter when it is damaged or too soiled. Preparation of a new air filter is recommended.

To prepare a new air filter, contact your dealer and tell the air filter type number.

Type number = NJ22222


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

1. Turn the projector off, and unplug the power cord. Allow the lamp to cool for at least 45 minutes.
2. When the projector is suspended from the ceiling, apply the vacuum cleaner to and around the filter cover first, to prevent penetration of dust or the like.
3. While supporting the projector with one hand, use your other hand to pull the filter cover forward in the direction of the arrow. Remove the air filter.











Air filtre (continued)

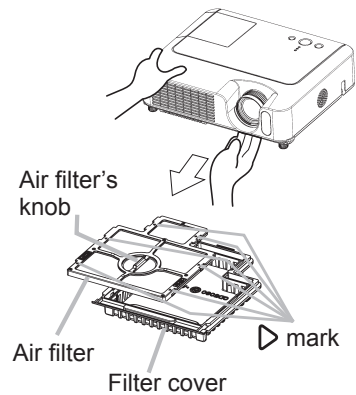
4. Apply a vacuum cleaner to the air filter and the filter cover. Please replace the air filter when it is damaged or too soiled.

5. Replace the air filter in its original position. Secure the air filter in place by pressing each of the six  locations. Make sure there is no dust or dirt remaining after the cover is in place. If any dust or dirt remains use a vacuum cleaner to remove it as when placing the filter cover on the air filter.

Reattach the filter cover to the projector by aligning the filter cover with the grooves on the projector. While holding the handle, push down on the filter cover until it locks firmly in place.

6. Turn the projector on and reset the filter time using the FILTER TIME function in the OPTION menu ( 38).

- (1) Press the MENU button to display a menu. When the EASY MENU has appeared, please skip the next step (2).
- (2) Point at the "OPTION" in the left column of the menu using / button, then press the  button.
- (3) Point at the "FILTER TIME" using / button, then press the  button. A dialog will appear.
- (4) Press the  button to select "RESET" on the dialog. It performs resetting the lamp time.

**Model 8755D-RJ Only!****Internal Clock Battery**

Replacement of battery is described on page 45. The clock will not function correctly when the battery is expended. A dead battery will cause the clock to indicate wrong or stopped time.

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.

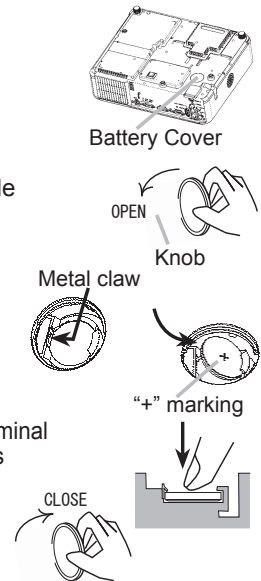
If soiling is severe, dip soft cloth in water or a neutral cleaner diluted in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

Replacing Internal Clock battery (8755D-RJ only!)

Consumption of the battery makes the clock not to work correctly. When the clock is wrong or it has stopped, please replace the battery according to the following procedures.

- ⚠ WARNING** ▶ Always handle the batteries with care and use them only as directed. Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire. And also improper use may result in 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.
- If the battery is placed in the battery holder upside-down, it may be hard to remove.
- Keep a battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
 - Do not short circuit or solder 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.
 - Obey the local laws on disposing the battery.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector has cooled adequately, slowly turn over the projector, so that the bottom is facing.
3. Remove the battery cover. Turn the battery cover in the direction indicated "OPEN" using such as coins. Then the battery cover will come up. While removing the battery cover, pick its knob.
4. Take the old battery out. Press the metal claw of the battery holder. Then the battery will come up. Remove the battery.
5. Put a new battery in. **Replace battery with HITACHI MAXELL, Part No.CR2032 only. Use of another battery may present a risk of fire or explosion.** Insert a new battery in the battery holder according to its minus terminal ⊖ as indicated in the battery holder, so that the side marked by + is facing. And push the battery into the battery holder fully to fix.
6. Close the battery cover. Replace the battery cover in place, then turn it in the direction indicated "CLOSE" using such as coins, to fix.



If the battery is placed in the battery holder upside-down, follow the procedure below to remove and reload it properly.

1. Remove the battery cover as described in steps 1 through 3 above.
2. Turn the projector over again, so that the top of the projector is facing up.
3. While lifting the side of the projector closest to the lens, press the metal claw of the battery holder. The battery will fall out of the holder, so be careful not to lose it.
4. Turn the projector over once more, so that the bottom faces up, and reload the battery correctly.

NOTE • The internal clock's time will be reset when the battery is removed. Please reconfigure the time via the menu or a web browser after replacing the battery. (Please refer to page 76 - Network Functions: Date/Time Settings for more information.)

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
<div style="border: 1px solid black; padding: 5px; text-align: center;"> NO INPUT IS DETECTED ON *** </div>	<p>There is no input signal. Please confirm the signal input connection, and the status of the signal source.</p>
<div style="border: 1px solid black; padding: 5px; text-align: center;"> SYNC IS OUT OF RANGE ON *** [fH] *****kHz [fV] *****Hz </div>	<p>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.</p>
<p>CHECK THE AIR FLOW</p>	<p>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.</p> <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? <p>If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.</p>
<p>REMINDER *** HRS PASSED AFTER THE LAST FILTER CHECK. FILTER MAINTENANCE IS ESSENTIAL TO REMOVE WARNING MESSAGE, RESET FILTER TIMER. SEE MANUAL FURTHER INFO.</p>	<p>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.</p>

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 indicator	LAMP indicator	TEMP indicator	Description
Lighting In Orange	Turned off	Turned off	The projector is in a standby state. Please refer to the section "Power On/Off".
<i>Blinking</i> In Green	Turned off	Turned off	The projector is warming up. Please wait.
Lighting In Green	Turned off	Turned off	The projector is in an on state. Ordinary operations may be performed.
<i>Blinking</i> In Orange	Turned off	Turned off	The projector is cooling down. Please wait.
<i>Blinking</i> In Red	(discretionary)	(discretionary)	The projector is cooling down. A certain error has been detected. Please wait until the POWER indicator finishes blinking, and then perform the proper measure using the item descriptions below.
<i>Blinking</i> In Red or Lighting In Red	Lighting In Red	Turned off	The lamp does not light, and there is a possibility that interior portion has become heated. Please turn the power off, and allow the 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. <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? If the same indication is displayed after the remedy, please change the lamp referring to the section "Lamp".
<i>Blinking</i> In Red or Lighting In Red	<i>Blinking</i> In Red	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)

POWER indicator	LAMP indicator	TEMP indicator	Description
Blinking In Red or Lighting In Red	Turned off	Blinking In Red	<p>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.</p>
Blinking In Red or Lighting In Red	Turned off	Lighting In Red	<p>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.</p> <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? <p>If the same indication is displayed after the remedy, please set FAN SPEED of the SERVICE item in the OPTION menu to HIGH.</p>
Lighting In Green	Simultaneous blinking in Red		<p>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.</p>

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

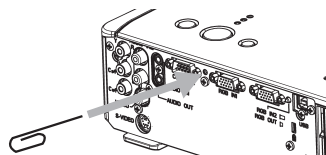
⚠ WARNING ▶ Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In such cases, immediately turn off the power switch and then disconnect the power plug from the 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,

2. The projector's microprocessor may need to be reset. Please push the Restart switch by using a cocktail stick or similar and the projector will restart.
3. Some setting may be wrong. Please use the FACTORY RESET function of the SERVICE item in the OPTION menu (U39) 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	Reference page
Power does not come on.	The electrical power cord is not plugged in. Correctly connect the power cord.	14
	The power switch is not set to the on position. Set the power switch to [] (On).	17
	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 2 minutes. After the projector has sufficiently cooled down, please turn the power on again.	17
	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.	40, 41
Neither sounds nor pictures are outputted.	The signal cables are not correctly connected. Correctly connect the connection cables.	12, 13
	Signal source does not correctly work. Correctly set up the signal source device by referring to the manual of the source device.	–
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	18
	The RGB IN2 port is assigned to an RGB out while an RGB input signal is inputted to the port. Push the RGB IN OUT switch to switch the function of the port.	12

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

Phenomenon	Cases not involving a machine defect	Reference page
Sound does not come out.	The signal cables are not correctly connected. Correctly connect the audio cables.	12,13
	The MUTE function is working. Restore the sound pressing the MUTE or VOLUME button on the remote control.	18
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	18
	The AUDIO setting is not correct. Correctly set the AUDIO item in the SETUP menu.	34
No pictures are displayed.	The lens cap is attached. Remove the lens cover.	17
	The signal cables are not correctly connected. Correctly connect the connection cables.	12, 13
	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function or the remote control.	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.	11
Video screen display freezes.	The FREEZE function is working. Press the FREEZE button to restore the screen to normal.	22
Colors have a faded- out appearance, or Color tone is poor.	Color settings are not correctly adjusted. Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	25, 28, 32
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	32

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

Phenomenon	Cases not involving a machine defect	Reference page
Pictures appear dark.	The brightness and/or contrast are adjusted to an extremely low level. Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	25
	The WHISPER function is working. Select NORMAL for the WHISPER item in the SETUP menu.	25
	The lamp is approaching the end of its product lifetime. Replace the lamp.	40, 41
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.	30
	The lens is dirty or misty. Clean the lens referring to the section "Caring for the lens".	44

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

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.

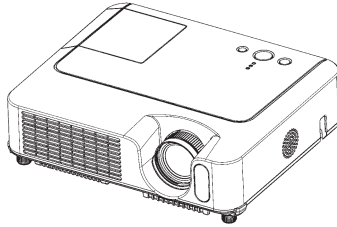
Specifications

Specifications

NOTE • These specifications are subject to change without notice.

Item		Specification
Product name		Liquid crystal projector
Liquid Crystal panel	Panel size	1.5 cm (0.6 type)
	Drive system	TFT active matrix
	Pixels	8065: 480,000 pixels (800 horizontal x 600 vertical) 8755D: 786,432 pixels (1024 horizontal x 768 vertical)
Lens		Zoom lens F=1.7 ~ 1.9 f=18.9 ~ 22.6 mm
Lamp		180W UHB
Speaker		1W x 1
Power Supply		AC100-120V/3.1A, AC220-240V/1.7A
Power Consumption		290W
Temperature range		5 ~ 35°C (Operating)
Size		306 (W) x 86 (H) x 249 (D) mm (Not including protruding parts) • Please refer to the following figure.
Weight (mass)		3.0 kg
Ports		RGB input: RGB IN1 ..D-sub 15pin mini x1 RGB IN2 /OUT D-sub 15pin minix1 (select RGB IN2 or RGB OUT) Audio input: AUDIO 1 Stereo mini x1 AUDIO 2 RCA x2 Audio output: AUDIO OUT ... Stereo mini x1 Video input: COMPONENT VIDEO (Y, Cb/Pb, Cr/Pr)..... RCA x3 S-Video 1 Video 1 Communication port: CONTROL..... D-sub 9pin x1 USB USB(B) x1 8755D-RJ LAN RJ-45 x 1
Optional parts	Lamp	DT00731
	Air filter	NJ22222
	Others	• Please consult your dealer.

Projector
8755D-RJ only
Network Functions



This section is only intended to explain Network Functions.

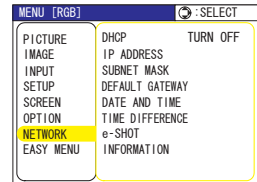
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NETWORK Menu

8755D-RJ only! (LAN)


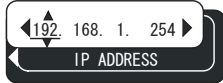
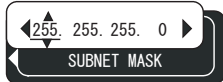
Select [Network] from the main menu to access the following functions.




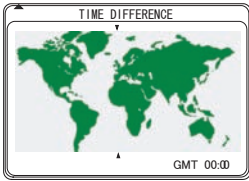

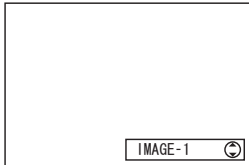
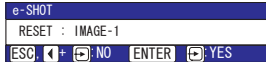
NOTE • The factory default setting for DHCP is “TURN ON”. There is no need to set up [DHCP], [IP ADDRESS], [SUBNET MASK] or [DEFAULT GATEWAY] if your network has DHCP enabled. (📖 **User’s Manual - Network Functions**)

• If you are not utilizing Sntp (📖 **User’s Manual - Network Functions**), then you must set the DATE AND TIME during the initial installation. Please refer to the item DATE AND TIME on the following list.

NOTE Consult with your network administrator before connecting to an existing access point on your network. Incorrect network settings on this projector may cause trouble on the network.

Item	Operation
DHCP (Dynamic Host Configuration Protocol)	<p>DHCP TURN ON/TURN OFF: Use the ▲/▼ buttons to turn DHCP on/off TURN ON ⇔ TURN OFF</p>  <p>Select TURN OFF when the network does not have DHCP enabled.</p>
IP ADDRESS	<p>Entering the IP ADDRESS : Use the ▲/▼/◀/▶ buttons to enter the IP ADDRESS. This function can only be used when DHCP is set to “TURN OFF”.</p>  <p>~Note~ The IP ADDRESS is the number that identifies this projector on the network. You cannot have two devices with the same IP ADDRESS on the same network.</p>
SUBNET MASK	<p>Entering the SUBNET MASK : Use the buttons ▲/▼/◀/▶ to enter the same SUBNET MASK used by your PC. This function can only be used when DHCP is set to “TURN OFF”.</p> 

NETWORK Menu (continued)

Item	Operation
<p>DEFAULT GATEWAY</p>	<p>Entering the DEFAULT GATEWAY : Use the ▲/▼/◀/▶ buttons to enter the DEFAULT GATEWAY (therouter or PC that forwardstraffic to a destination outside of the subnet of the transmitting device) address.This function can only be used when DHCP is set to "TURN OFF".</p> 
<p>DATE AND TIME</p>	<p>Entering DATE AND TIME : Use the ▲/▼/◀/▶ buttons to enter the Year (last two digits), Month, Date, Hour and Minute. ~Note~ The projector will override this setting and retrieve DATE AND TIME information from the Timeserver when SNTP is enabled. See [Date/ Time Settings] in [User's Manual - Network Functions: Configuring and Controlling the Projector via a Web Browser] for SNTP settings.</p>
<p>TIME DIFFERENCE</p>	<p>Entering the TIME DIFFERENCE : Use the ◀/▶ buttons to enter the TIME DIFFERENCE. Set the same TIME DIFFERENCE as the one set on your PC. If unsure, consult your network administrator. Use the ▲ button to return to the menu after setting the TIME DIFFERENCE.</p> 
<p>e-SHOT</p>	<p>e-SHOT display : Use the ▲/▼ buttons to select an item and the ▶ or ENTER buttons to display the image.</p> <p>Image1 Image2 Image3 Image4</p>  <p>Once an image is displayed, you can use the ▲/▼ buttons to page through the images. Use the ◀ or ESC buttons to return to the menu.</p> <p>Pressing the RESET button on the remote control while an image is being displayed will display the RESET menu. The displayed image can be deleted from the RESET menu using the ENTER button on the remote control or the INPUT button on the projector.</p> <p>If you do not wish to delete the image use the ESC button on the remote control or push the ◀ and INPUT buttons on the projector at the same time.</p> <p>~Note~</p> <ul style="list-style-type: none"> • Items with no image stored cannot be selected. • Images can be changed using the ▲/▼ buttons while the image data downloads.  

NETWORK Menu (continued)

Item	Operation
<p>INFORMATION</p>	<p>INFORMATION display : Use the ► or ENTER buttons to view network information and confirm settings.</p> <div data-bbox="805 266 1053 410" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>◀ NETWORK- INFORMATION</p> <p>NAME</p> <p>IP ADDRESS 192.168.1.254</p> <p>SUBNETMASK 255.255.255.0</p> <p>DEFAULT_GATEWAY 0.0.0.0</p> <p>MAC ADDRESS 00:00:87:56:AC:7C</p> <p>DATE AND TIME 2000/1/1 8:15</p> <p>TIME DIFFERENCE GMT 00:00</p> </div> <p>~Note~</p> <ul style="list-style-type: none"> • Only the first 16 characters of the projector name are displayed. • The battery for the built in clock may be dead if the clock loses time even when the DATE AND TIME have been set correctly. Replace the battery by following the instructions on replacing the battery. (47)

Network Functions 8755D-RJ only

This projector is equipped with the following network functions.

Configuring and Controlling the Projector via a Web Browser

You can change the settings of or control the projector via a network by using a web browser from a PC that is connected to the same network.

4)

Failure & Warning Alerts via E-mail

The projector can automatically send an alert to specified e-mail addresses when the projector requires maintenance or has encountered an error.

Projector Management via SNMP

This projector is SNMP (Simple Network Management Protocol) compliant, allowing you to monitor it from a remote location using SNMP software. In addition, the projector is able to send failure & warning alerts to a specified PC.

Controlling the Projector via Scheduling

You can schedule the projector to perform various functions according to the DATE and TIME.

Still Image Transfer

The projector can display still images that are transferred via the network.

Projector Control via RS-232C via the Network

The projector can be controlled using RS-232C commands over a network.

Before using the network functions...

To use the network functions of this projector, the projector must be configured to suit your network. Consult with your network administrator before connecting the projector to your network. Incorrect network configuration of this projector may cause problems on your network.

Connect to the Gateway (The router/PC that forwards traffic to a destination outside of the subnet of the transmitting device) from the network terminal on the projector using a CAT-5 cable and configure the following settings.

If using a network with DHCP enabled:

The projector's network settings can be configured automatically, when **[DHCP]** on the network menu is set to **[TURN ON]**. Please refer to DHCP in network menu. ([📖 User's Manual - Operating Guide : NETWORK Menu](#)) If a fixed / static IP address is required, please configure your projector according to the steps in the following section.

If using a network system that does not have DHCP enabled or if using a fixed IP address on a network system equipped with DHCP enabled:

Configure the following settings on the network menu.

([📖 User's Manual - Operating Guide : NETWORK Menu](#))

1. **[DHCP]**: Disable DHCP (Set **[DHCP]** to **[TURN OFF]**).
2. **[IP ADDRESS]**: Enter an appropriate IP address for the projector to connect to your network.
3. **[SUBNET MASK]**: Enter an appropriate SUBNETMASK for the projector to connect to your network.
4. **[DEFAULT GATEWAY]**: Enter an appropriate Gateway (the router/PC that forwards traffic to a destination outside of the subnet of the transmitting device) address for the projector to connect to your network.

Configuring and controlling the projector via a web browser

You can adjust or control the projector via a network from a web browser on a PC that is connected to the same network.

NOTE • Internet Explorer 5.5 or higher or Netscape 6.2 or higher are required.

- If JavaScript is disabled in your web browser configuration, you must enable JavaScript in order to use the projector web pages properly. See the Help for your web browser for details on how to enable JavaScript.
- This projector is SSL (Secure Socket Layer) compliant. Please specify "https://" when the entering the projector address.
- If no operations are performed via a web browser for approx. 50 seconds the system will automatically log off. Please Re-log on to continue operations via a web browser.
- After you logon, a small, blank window will appear behind the main operation window. Please do not close this small, blank window. If this window is closed, the system will automatically log off after certain period of time even if an operation is being performed.

The small, blank window will close when the main operation window is closed.

- The small, blank window may be considered a pop-up and be blocked if you are using Windows XP Service Pack 2, or using other security software.

If Service Pack 2 blocks the window the following message will appear:

"Pop-up blocked. To see this pop-up or additional options click here..."

Please select "Temporarily Allow Pop-ups" or "Always Allow Pop-ups From This Site..." to allow the window to open.

- It is recommended that all web browser updates be installed. It is especially recommended that all users running Internet Explorer on a Microsoft Windows version prior to Windows XP Service Pack 2 install security update Q832894 (MS04-004) or the web browser interface may not be displayed correctly. And when using an older version of Internet Explorer, during operations the browser will log out after 50 seconds.

Configuring and controlling the projector via a web browser (Continued)

When configuring or controlling the projector via a web browser, an ID and password are required. There are two types of IDs, Administrator IDs and User IDs. The following chart describes the differences between user and administrator IDs.

Item	Description	Administrator ID	User ID
Network Information	Displays the projector's current network configuration settings.	√	√
Network Settings	Displays and configures network settings.	√	N/A
Port Settings	Displays and configures communication port settings.	√	N/A
Mail Settings	Displays and configures e-mail addressing settings.	√	N/A
Alert Settings	Displays and configures failure & warning alerts.	√	N/A
Schedule Settings	Displays and configures schedule settings.	√	N/A
Date/Time Settings	Displays and configures the date and time settings.	√	N/A
Security Settings	Displays and configures passwords and other security settings.	√	N/A
Projector Control	Controls the projector.	√	√
Projector Status	Displays and configures the current projector status.	√	√
Network Restart	Restarts the projector's network connection.	√	N/A

Below are the factory default settings for administrator IDs, user IDs and passwords.

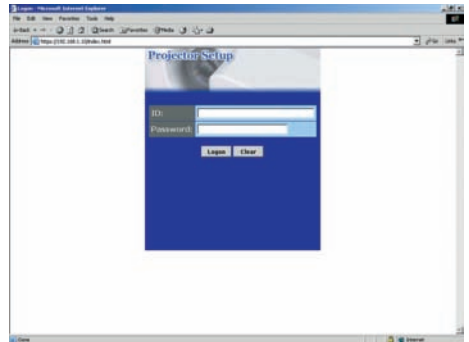
Item	ID	Password
Administrator ID	Administrator	<blank>
User ID	User	<blank>

Settings

Refer to the following for configuring or controlling the projector via a web browser.
Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter **[https://192.168.1.10]** into the address bar of the web browser and the screen in Fig. 1 will be displayed.
- 2) Enter your ID and password and click **[Login]**.

Fig. 1



If the logon is successful either the Fig.2 or Fig.3 screen will be displayed.

Fig. 2 (Logon with administrator ID)

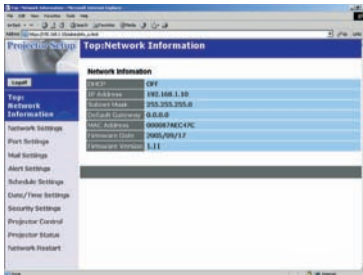
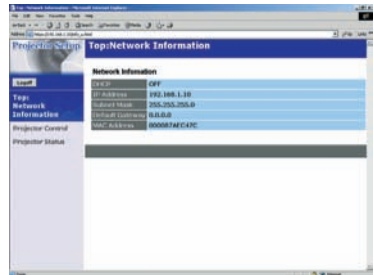
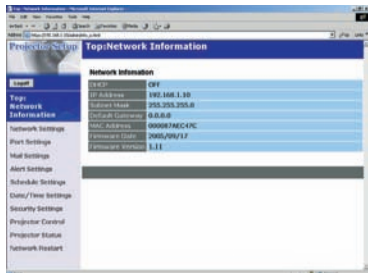


Fig. 3 (Logon with user ID)



- 3) Click the desired operation or configuration item on the main menu located on the left-hand side of the screen (Fig. 2 or Fig. 3).

Network Information

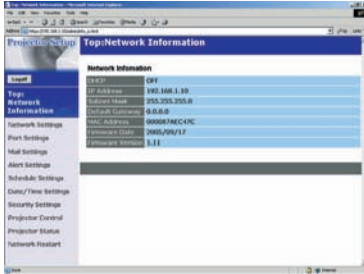


All screen images displayed in this manual are screens of a logon using an administrator ID. Any administrator only functions will not be displayed when using a user ID. Refer to the descriptions in each table.

Displays the projector's current network configuration settings.

Item	Description
DHCP	Displays the DHCP configuration settings.
IP Address	Displays the current IP address.
Subnet Mask	Displays the Subnet Mask.
Default Gateway	Displays the Default Gateway.
MAC Address	Displays the MAC address.
Firmware Date	Displays the network firmware time stamp. This information is only displayed when logged on using an administrator ID.
Firmware Version	Displays the network firmware version number. This information is only displayed when logged on using an administrator ID.

Network Settings



Displays and configures network settings.

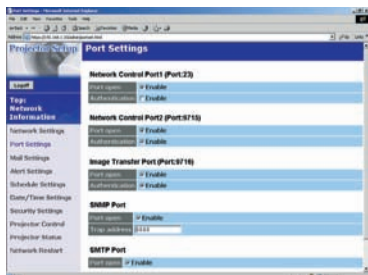
Item	Description
IP Configuration	Configures network settings.
DHCP ON	Enables DHCP.
DHCP OFF	Disables DHCP.
IP Address	Configures the IP address when DHCP is disabled.
Subnet Mask	Configures the Subnet Mask when DHCP is disabled.
Default Gateway	Configures the Default Gateway when DHCP is disabled.
Projector Name	Configures the Projector name.
SysLocation	Configures the location to be referred to when using SNMP.
SysContact	Configures the contact information to be referred to when using SNMP.

Click the **[Apply]** button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. When the configuration settings are changed, you must restart the network connection. You can restart the network connection by clicking **[Network Restart]** on the main menu.

- If you connect the projector to an existing network, consult a network administrator before setting server addresses.

Port Settings



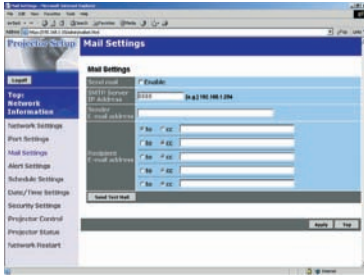
Displays and configures communication port settings.

Item	Description
Network Control Port1 (Port:23)	Configures command control port 1 (Port:23).
Port open	Click the [Enable] check box to use port 23.
Authentication	Click the [Enable] check box when authentication is required for this port.
Network Control Port2 (Port:9715)	Configures command control port 2 (Port:9715).
Port open	Click the [Enable] check box to use port 9715.
Authentication	Click the [Enable] check box when authentication is required for this port.
Image Transfer Port (Port:9716)	Configures the image transfer port (Port:9716).
Port open	Click the [Enable] check box to use port 9716.
Authentication	Click the [Enable] check box when authentication is required for this port.
SNMP Port	Configures the SNMP port.
Port open	Click the [Enable] check box to use SNMP.
Trap address	Configures the destination of the SNMP Trap in IP format.
SMTP Port	Configures the SMTP port.
Port open	Click the [Enable] check box to use the e-mail function.

Click the **[Apply]** button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. The network connection must be restarted when the configuration settings are changed. The network connection can be restarted using **[Network Restart]** on the main menu.dresses.

Mail Settings



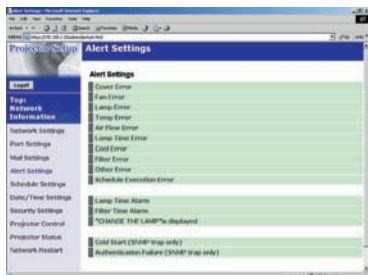
Displays and configures e-mail addressing settings.

Item	Description
Send Mail	Click the [Enable] check box to use the e-mail function. Configure the conditions for sending email under [Alert Settings] .
SMTP Server IP Address	Configures the address of the mail server in IP format.
Sender E-mail address	Configures the sender e-mail address. The length of the sender e-mail address can be up to 255 alphanumeric characters.
Recipient E-mail address	Configures the e-mail address of up to five recipients. You can also specify [TO] or [CC] for each address. The length of the recipient e-mail address can be up to 255 alphanumeric characters.

Click the **[Apply]** button to save the settings.

NOTE • You can confirm whether the mail settings work correctly using the [Send Test Mail] button.
 • If you connect the projector to an existing network, consult a network administrator before setting server addresses.

Alert Settings



Displays and configures failure & warning alerts.

Item	Description
Cover Error	Configures Cover Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Fan Error	Configures Fan Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.

Alert Settings (Continued)

Item	Description
Lamp Error	Configures Lamp Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Temp Error	Configures Temp Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Air Flow Error	Configures Air Flow Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.

Alert Settings (Continued)

Item	Description
Lamp Time Error	Configures Lamp Time Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Cool Error	Configures Cool Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Filter Error	Configures Filter Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.

Alert Settings (Continued)

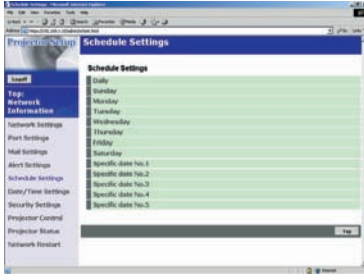
Item	Description
Other Error	Configures Other Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Schedule Execution Error	Configures Schedule Execution Error alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Lamp Time Alarm	Configures Lamp Time Alarm alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.

Alert Settings (Continued)

Item	Description
Filter Time Alarm	Configures Filter Time Alarm alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
“CHANGE THE LAMP” is displayed	Configures alert settings for when “CHANGE THE LAMP” is displayed.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Send Mail	Click the [Enable] check box to enable e-mail alerts for this item.
Mail Subject	Configures the subject line of the e-mail to be sent. The length of the subject line can be up to 255 alphanumeric characters.
Mail Text	Configures the text of the e-mail to be sent. The length of the text can be up to 1024 alphanumeric characters.
Cold Start	Configures Cold Start alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.
Authentication Failure	Configures Authentication Failure alert settings.
SNMP Trap	Click the [Enable] check box to enable SNMP Trap alerts for this item.

Click the **[Apply]** button to save the settings.

Schedule Settings



Displays and configures schedule settings.

Item	Description
Daily	Configures the daily schedule.
Schedule	Click the [Enable] check box to enable daily scheduling.
Schedule List	Displays the current daily schedule.
Sunday	Configures the Sunday schedule.
Schedule	Click the [Enable] check box to enable Sunday scheduling.
Schedule List	Displays the current Sunday schedule.
Monday	Configures the Monday schedule.
Schedule	Click the [Enable] check box to enable Monday scheduling.
Schedule List	Displays the current Monday schedule.
Tuesday	Configures the Tuesday schedule.
Schedule	Click the [Enable] check box to enable Tuesday scheduling.
Schedule List	Displays the current Tuesday schedule.
Wednesday	Configures the Wednesday schedule.
Schedule	Click the [Enable] check box to enable Wednesday scheduling.
Schedule List	Displays the current Wednesday schedule.
Thursday	Configures the Thursday schedule.
Schedule	Click the [Enable] check box to enable Thursday scheduling.
Schedule List	Displays the current Thursday schedule.
Friday	Configures the Friday schedule.
Schedule	Click the [Enable] check box to enable Friday scheduling.
Schedule List	Displays the current Friday schedule.
Saturday	Configures the Saturday schedule.
Schedule	Click the [Enable] check box to enable Saturday scheduling.
Schedule List	Displays the current Saturday schedule.

Schedule Setting (Continued)

Item	Description
Specific date No.1	Configures the specific date (No.1) schedule.
Schedule	Click the [Enable] check box to enable specific date (No.1) scheduling.
Month/Day	Configures the Month and date.
Schedule List	Displays the current specific date (No.1) schedule.
Specific date No.2	Configures the specific date (No.2) schedule.
Schedule	Click the [Enable] check box to enable specific date (No.2) scheduling.
Month/Day	Configures the Month and date.
Schedule List	Displays the current specific date (No.2) schedule.
Specific date No.3	Configures the specific date (No.3) schedule.
Schedule	Click the [Enable] check box to enable specific date (No.3) scheduling.
Month/Day	Configures the Month and date.
Schedule List	Displays the current specific date (No.3) schedule.
Specific date No.4	Configures the specific date (No.4) schedule.
Schedule	Click the [Enable] check box to enable specific date (No.4) scheduling.
Month/Day	Configures the Month and date.
Schedule List	Displays the current specific date (No.4) schedule.
Specific date No.5	Configures the specific date (No.5) schedule.
Schedule	Click the [Enable] check box to enable specific date (No.5) scheduling.
Month/Day	Set the Month and date.
Schedule List	Displays the current specific date (No.5) schedule.

Click the **[Apply]** button to save the settings.

Schedule Setting (Continued)

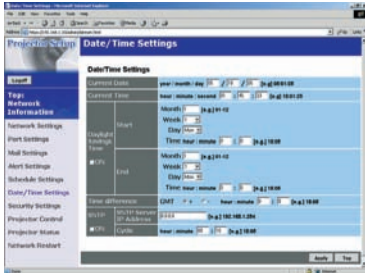
To add additional functions and events click the **[Add]** button and set the following items.

Item	Description
Time	Configures the time to execute commands.
Command	Configures the commands to be executed.
Power Parameter	Configures the parameters for power control.
Input Source Parameter	Configures the parameters for input switching.
Display Image Parameter	Configures the parameters for display of transfer image data.

Click the **[Register]** button to add new commands to the Schedule List.

Click the **[Delete]** button to delete commands from the Schedule list.

Date/Time Settings



Displays and configures the date and time settings.

Item	Description
Current Date	Configures the current date in Year/Month/Day format.
Current Time	Configures the current time in Hour:Minute:Second format.

Date/Time Settings (Continued)

Item	Description
Daylight Savings Time	Click the [ON] check box to enable daylight savings time and set the following items.
Start	Configures the date and time daylight savings time begins.
Month	Configures the month daylight savings time begins (1~12).
Week	Configures the week of the month daylight savings time begins (First, 2, 3, 4, Last).
Day	Configures the day of the week daylight savings time begins (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
Hour	Configures the hour daylight savings time begins (0 ~ 23).
Minute	Configures the minute daylight savings time begins (0 ~ 59).
End	Configures the date and time daylight savings time ends.
Month	Configures the month daylight savings time ends (1 ~ 12).
Week	Configures the week of the month daylight savings time ends (First, 2, 3, 4, Last).
Day	Configures the day of the week daylight savings time ends (Sun, Mon, Tue, Wed, Thu, Fri, Sat).
Hour	Configures the hour daylight savings time ends (0 ~ 23).
Minute	Configures the minute daylight savings time ends (0 ~ 59).
Time difference	Configures the time difference (hours:minutes). Set the same time difference as the one set on your PC. If unsure, consult your network administrator.
SNTP	Click the [ON] check box to retrieve Date and Time information from the SNTP server and set the following items.
SNTP Server IP Address	Configures the SNTP server address in IP format.
Cycle	Configures the interval at which to retrieve Date and Time information from the SNTP server. (hours:minutes).

Click the **[Apply]** button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. The network connection must be restarted when the configuration settings are changed, The network connection can be restarted using **[Network Restart]** on the main menu.

- If you connect the projector to an existing network, consult a network administrator before setting server addresses.
- To enable the SNTP function, the time difference must be set.
- The projector will retrieve DATE and TIME information from the Timeserver and override time settings when SNTP is enabled.
- The Internal Clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

Security Settings

Displays and configures passwords and other security settings.

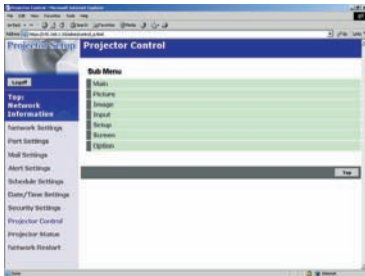
Item	Description
Administrator authority	Configures the Administrator ID and Password.
Administrator ID	Configures the Administrator ID. The length of the text can be up to 32 alphanumeric characters.
Administrator Password	Configures the Administrator Password. The length of the text can be up to 255 alphanumeric characters.
Re-enter Administrator Password	Re-enter the above password for verification.
User authority	Configures the User ID and Password.
User ID	Configures the User ID. The length of the text can be up to 32 alphanumeric characters.
User Password	Configures the User Password. The length of the text can be up to 255 alphanumeric characters.
Re-enter User Password	Used to re-enter the above password for verification.
Network Control	Configures the Authentication Password for the command control.
Authentication Password	Configures the Authentication Password. The length of the text can be up to 16 alphanumeric characters.
Re-enter Authentication Password	Used to re-enter the above password for verification.
SNMP	Configures the community name if SNMP is used.
Community Name	Configures the community name. The length of the text can be up to 64 alphanumeric characters.

Click the **[Apply]** button to save the settings.

NOTE • The new configuration settings are activated after restarting the network connection. The network connection must be restarted when the configuration settings are changed. The network connection can be restarted using **[Network Restart]** on the main menu.

Projector Control

Projector Control



The items shown in the table below can be performed using the **[Projector Control]** menu. Select an item using the up and down arrow keys on the PC.

Most of the items have a submenu. Refer to the table below for details.

Controls the projector.

Item	Description
Main	
Power	Turns the power On/Off.
Input Source	Selects the input source.
Picture Mode	Selects the Picture Mode setting.
Blank On/Off	Turns Blank On/Off.
Mute	Turns Mute On/Off.
Freeze	Selects the Freeze setting.
Magnify	Controls the Magnify setting.
Picture	
Brightness	Adjusts the Brightness setting.
Contrast	Adjusts the Contrast setting.
Gamma	Selects the Gamma setting.
Color Temp	Selects the Color Temp setting.
Color	Adjusts the Color setting.
Tint	Adjusts the Tint setting.
Sharpness	Adjusts the Sharpness setting.
Progressive	Selects the Progressive setting.
MyMemory Recall	Recalls the MyMemory data.
MyMemory Save	Saves the MyMemory data.

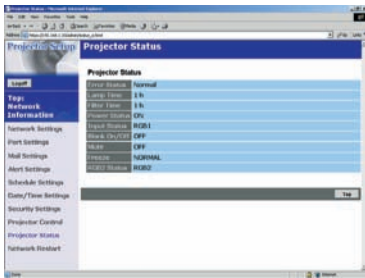
Projector Control (Continued)

Item	Description
Image	
Aspect	Selects the Aspect setting.
Over Scan	Selects the Over Scan setting.
V Position	Adjusts the V Position.
H Position	Adjusts the H Position.
H Phase	Adjusts the H Phase.
H Size	Adjusts the H Size.
Auto Adjust	Performs Auto Adjustment.
Input	
Color Space	Selects the Color Space.
Component	Selects the Component terminal setting.
Video Format	Selects the Video Format setting.
Frame Lock	Enables/Disables Frame Lock.
Setup	
Keystone	Adjusts the Keystone setting.
Whisper	Selects the Fan speed. (Normal or Whisper)
Mirror	Selects the Mirror status.
Volume	Adjusts the Volume setting.
Audio-RGB1	Assigns the Audio-RGB1 input terminal.
Audio-RGB2	Assigns the Audio-RGB2 input terminal.
Audio-Video	Assigns the Audio-Video input terminal.
Audio-S-Video	Assigns the Audio-S-Video input terminal.
Audio-Component	Assigns the Audio-Component input terminal.
Screen	
Language	Selects the Language for the OSD.
Menu Position V	Adjusts the vertical Menu Position.
Menu Position H	Adjusts the horizontal Menu Position.
OSD Bright.	Adjusts the OSD Brightness level.
Blank	Selects the Blank mode.
Startup	Selects the Startup screen mode.
MyScreen Lock	Turns MyScreen Lock On/Off.
Message	Turns the Message function On/Off.

Projector Control (Continued)

Item	Description
Option	
Auto Search	Turns the Automatic signal search function On/Off.
Auto Power off	Configures the timer to shut off the projector when no signal is detected.
Auto Adjust Enable	Enables/Disables Auto Adjustment.

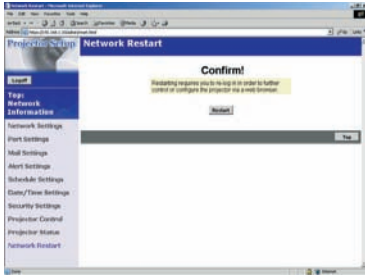
Projector Status



Displays and configures the current projector status.

Item	Description
Error Status	Displays the current error status
Lamp Time	Displays the usage time for the current lamp.
Filter Time	Displays the usage time for the current filter.
Power Status	Displays the current power status.
Input Status	Displays the current input signal source.
Blank On/Off	Displays the Blank On/Off status.
Mute	Displays the current Mute On/Off status.
Freeze	Displays the current Freeze On/Off status.
RGB2 Status	Displays the current RGB2 terminal In/Out setting.

Network Restart



Restarts the projector's network connection.

Item	Description
Restart	Restarts the projector's network connection in order to activate new configuration settings.

NOTE • Restarting requires you to re-log on in order to further control or configure the projector via a web browser.

Logoff

When logoff is clicked, the logon screen is displayed.

Failure & Warning Alerts via E-mail

The projector can automatically send an alert to specified e-mail addresses when the projector requires maintenance or has encountered an error.

NOTE • Up to five e-mail addresses can be specified.
 • The projector may be not able to send e-mail if the projector suddenly loses power.

Mail Settings

To use the projector's e-mail function please configure the following items via a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port Settings**] on the main menu.
- 4) Click the [**Enable**] check box to open the SMTP Port.
- 5) Click the [**Apply**] button to save the settings.

NOTE • A Network Restart is required after the SMTP Port configuration settings have changed. Click [**Network Restart**] and configure the following items.

- 6) Click [**Mail Settings**] and configure each item. Refer to the [**Mail Settings**] item in [**Configuring and Controlling the Projector via a Web Browser**] for further information.
- 7) Click the [**Apply**] button to save the settings.

NOTE • Click the [**Send Test Mail**] button in [**Mail Settings**] to confirm that the e-mail settings are correct. The following mail will be delivered to the specified addresses.

Subject line	: Test Mail	<Projector name>
Text	: Send Test Mail	
	Date	<Testing date>
	Time	<Testing time>
	IP Address	<Projector IP address>
	MAC Address	<Projector MAC address>

Mail Settings (Continued)

- 8) Configure the Failure/Warning Alerts via E-mail settings. Click **[Alert Settings]** on the main menu.
- 9) Select and configure each alert item. Refer to **[Alert Settings]** in **[Configuring and Controlling the Projector via a Web Browser]** for further information.
- 10) Click the **[Apply]** button to save the settings.

Failure/Warning e-mails are formatted as follows:

Subject line	: <Mail title>	<Projector name>
Text	: <Mail text>	
	Date	<Failure/Warning date>
	Time	<Failure/Warning time>
	IP Address	<Projector IP address>
	MAC Address	<Projector MAC address>

Projector management via SNMP

When SNMP is enabled, the projector is able to send Failure/Warning Alerts to a specified PC.

NOTE • It is recommended that SNMP functions be carried out by a network administrator.

- SNMP management software must be installed on the computer to monitor the projector via SNMP.

SNMP settings

Configure the following items via a web browser to use SNMP.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port Settings**] on the main menu.
- 4) Click the [**Enable**] check box to open the SNMP Port.
Set the IP address to send the SNMP Trap to when a Failure/Warning occurs.

NOTE • A Network Restart is required after the SNMP Trap configuration settings have been changed. Click [**Network Restart**] and configure the following items.

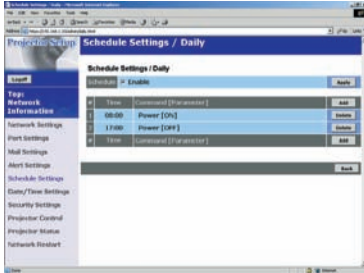
- 5) Click [**Security Settings**] on the main menu.
- 6) Click [**SNMP**] and set the Community Name on the screen that is displayed.

NOTE • A Network Restart is required after the Community Name has been changed.

- Click [**Network Restart**] and configure the following items.

- 7) Configure the settings for Trap transmission of Failures/Warnings. Click [**Alert Settings**] on the main menu and select the Failure/Warning item to be configured.
- 8) Click the [**Enable**] check box to send out the SNMP trap for Failures/Warnings.
Clear the [**Enable**] check box when SNMP trap transmission is not required.
- 9) Click the [**Apply**] button to save the settings.

Controlling the Projector via Scheduling



The projector can be automatically controlled via scheduling.

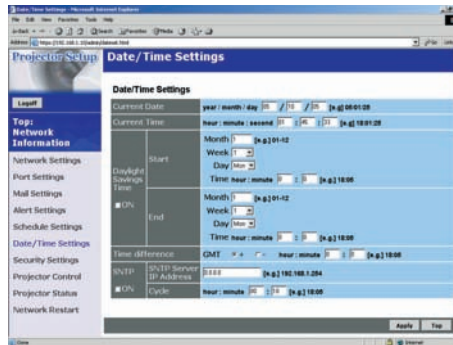
- NOTE** • You can schedule the following control events: Power ON/OFF, Input Source and Transferred Image Display.
- There are 3 types of Scheduling, 1) daily 2) day of the week 3) specific date.
 - The priority for scheduled events is as follows 1) specific date 2) day of the week 3) daily.
 - Up to five specific dates are available for scheduled events. Priority is given to those with the lower numbers when more than one event has been scheduled for the same date and time (e.g., 'Specific day No. 1' has priority over 'Specific day No. 2' and so on.
 - Be sure to set the date and time before enabling scheduled events.

Date/Time Settings

The Date/Time setting can be adjusted via a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
Enter the Administrator ID and Password and click [**Logon**].
- 2) Click [**Date/Time Settings**] on the main menu and configure each item.
Refer to the [**Date/Time Settings**] item in [**Configuring and Controlling the Projector via a Web Browser**] for further information.
- 3) Click the [**Apply**] button to save the settings.



NOTE • A Network Restart is required after the Daylight Savings Time or SNTP configuration settings have been changed.

- The battery for the built in clock may be dead if the clock loses time even when the DATE and TIME have been set correctly. Replace the battery by following the instructions on replacing the battery.

([User's Manual - Operating Guide : Replacing Internal Clock battery](#))

- The Internal Clock's time may not remain accurate. Using SNTP is recommended to maintain accurate time.

Schedule Settings

Schedule settings can be configured from a web browser.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Schedule Settings**] on the main menu and select the required schedule item.
- 4) Click the [**Enable**] check box to enable scheduling.
- 5) Enter the Date (Month/Day) for specific date scheduling.
- 6) Click [**Add**] and set the hour, command and parameters and click [**Add This Schedule**] when you want to add a command.
- 7) Click the [**Delete**] button when you want to delete a schedule.
- 8) Click the [**Apply**] button to save the settings.

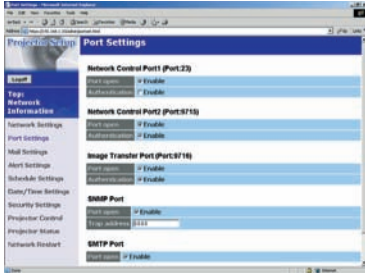
There are three types of scheduling.

- 1) Daily: Perform the specified operation at a specified time every day.
- 2) Sunday ~ Saturday: Perform the specified operation at the specified time on a specified day of the week.
- 3) Specific Date: Perform the specified operation on the specified date and time.

NOTE • In Standby mode the power indicator will flash green for approx. 3 seconds when at least 1 “Power ON” schedule is saved.

- When the schedule function is used, the power cord must be connected to the projector and the outlet and the power switch must be turned on, [|]. The schedule function does not work when the power switch is turned off, [O] or the breaker in a room is tripped. The power indicator will lights orange or green when the projector gets is receiving the power.

e-Shot (Still Image Transfer) Display



The projector can display a still image that is transferred via the network.

Communication Port

The following port is used for e-Shot.
TCP #9716

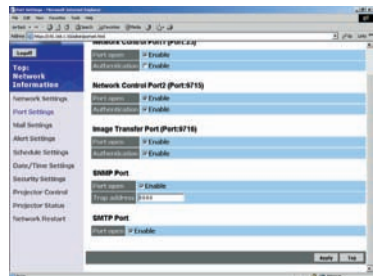
NOTE • e-Shot is not available via communication ports which are used for the command control (TCP #23 and TCP #9716).

e-Shot (Still Image Transfer) Settings

Configure the following items from a web browser when e-Shot is used.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port settings**] on the main menu.
- 4) Click the [**Enable**] check box to open the [**Image Transfer Port (Port: 9716)**]. Click the [**Enable**] check box for the [**Authentication**] setting when authentication is required, otherwise clear the check box.
- 5) Click the [**Apply**] button to save the settings.



e-Shot (Still Image Transfer) Settings (Continued)

When the authentication setting is enabled, the following settings are required.

- 6) Click **[Security Settings]** on the main menu.
- 7) Select **[Network Control]** and enter the desired authentication password. *
see Note1
- 8) Click the **[Apply]** button to save the settings. * see Note2

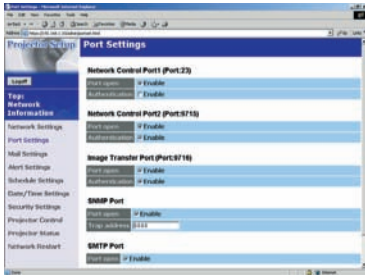
NOTE1 • The Authentication Password will be the same for **[Network Control Port1 (Port: 23)]**, **[Network Control Port2 (Port: 9715)]**, and **[Image Transfer Port (Port: 9716)]**.

NOTE2 • The new configuration settings are activated after restarting the network. Restart the network connection when any configuration settings are changed. The network connection can be restarted using **[Network Restart]** on the main menu.

e-Shot (Still Image Transfer) Transmission

e-Shot transmission requires an exclusive application for your PC. You can download it from the Hitachi web site. Refer to the manual for the application for instructions.

Command Control via the Network



You can configure and control the projector via the network using RS-232C commands.

Communication Port

The following two ports are assigned for the command control.

- TCP #23
- TCP #9715

NOTE • Command control is not available via communication port (TCP #9716) that is used for the e-Shot transmission function.

Command Control Settings

Configure the following items from a web browser when command control is used.

Example: If the IP address of the projector is set to 192.168.1.10:

- 1) Enter [**https://192.168.1.10**] into the address bar of the web browser.
- 2) Enter the Administrator ID and Password and click [**Logon**].
- 3) Click [**Port settings**] on the main menu.
- 4) Click the [**Enable**] check box to open [**Network Control Port (Port: 23)**] to use TCP #23. Click the [**Enable**] check box for the [**Authentication**] setting when authentication is required, otherwise clear the check box.
- 5) Click the [**Enable**] check box to open [**Network Control Port (Port: 9715)**] to use TCP #9715. Click the [**Enable**] check box for the [**Authentication**] setting when authentication is required, otherwise clear the check box.
- 6) Click the [**Apply**] button to save the settings.

Command Control Settings (Continued)

When the authentication setting is enabled, the following settings are required.

- 7) Click **[Security Settings]** on the main menu.
- 8) Click **[Network Control]** and enter the desired authentication password. * See Note1.
- 9) Click the **[Apply]** button to save the settings. * See Note2.

NOTE1 • The Authentication Password will be the same for **[Network Control Port1 (Port: 23)]**, **[Network Control Port2 (Port: 9715)]**, and **[Image Transfer Port (Port: 9716)]**.

NOTE2 • The new configuration settings are activated after restarting the network. Restart the network when any configuration settings are changed. The network connection can be restarted using **[Network Restart]** on the main menu.

Command format

Command formats differ among the different communication ports.

TCP #23

You can use the RS-232C commands without any changes. The reply data format is the same as the RS-232C commands. However, the following reply will be sent back in the event of authentication failure when authentication is enabled.

<Reply in the event of an authentication error>

Reply	Error code	
0x1F	0x04	0x00

TCP #9715

Send Data format

The following formatting is added to the header (0x02), Data length (0x0D), Checksum (1byte) and Connection ID (1 byte) of the RS-232C commands.

Header	Data length	RS-232Ccommand	Checksum	Connection ID
0x02	0x0D	13 bytes	1 byte	1 byte

- Header → 0x02, Fixed
- Data length → RS-232C commands byte length (0x0D, Fixed)
- RS-232C commands → RS-232C commands that start with 0xBE 0xEF (13 bytes)
- Check Sum → This is the value to make zero on the addition of the lower 8 bits from the header to the checksum.
- Connection ID → Random value from 0 to 255 (This value is attached to the reply data)

Reply Data format

The connection ID (the data is same as the connection ID data on the sending data format) is attached to the RS-232C commands reply data.

<ACK reply>

Reply	Connection ID
0x06	1 byte

<NAK reply>

Reply	Connection ID
0x15	1 byte

<Error reply>

Reply	Error code	Connection ID
0x1C	2 bytes	1 byte

<Data reply>

Reply	Data	Connection ID
0x1D	2 bytes	1 byte

<Projector busy reply>

Reply	Status code	Connection ID
0x1F	2 bytes	1 byte

<Authentication error reply>

Reply	Authentication Error code		Connection ID
0x1F	0x04	0x00	1 byte

Automatic Connection Break

The TCP connection will be automatically disconnected after there is no communication for 30 seconds after being established.

Authentication

The projector does not accept commands without authentication success when authentication is enabled. The projector uses a challenge response type authentication with an MD5 (Message Digest 5) algorithm.

When the projector is using a LAN, a random eight bytes will be returned if authentication is enabled. Bind this received 8 bytes and the authentication password and digest this data with the MD5 algorithm and add this in front of the commands to send.

Following is a sample if the authentication password is set to “password” and the random eight bytes are “a572f60c”.

- 1) Select the projector.
- 2) Receive the random eight bytes “a572f60c” from the projector.
- 3) Bind the random eight bytes “a572f60c” and the authentication password “password” and it becomes “a572f60cpassword”.
- 4) Digest this bind “a572f60cpassword” with MD5 algorithm.
It will be “e3d97429adffa11bce1f7275813d4bde”.
- 5) Add this “e3d97429adffa11bce1f7275813d4bde” in front of the commands and send the data.
Send “e3d97429adffa11bce1f7275813d4bde”+command.
- 6) When the sending data is correct, the command will be performed and the reply data will be returned. Otherwise, an authentication error will be returned.

Notes:

Projector

8755D, 8755D-RJ, & 8065

User's Manual – Operating Guide

Technical

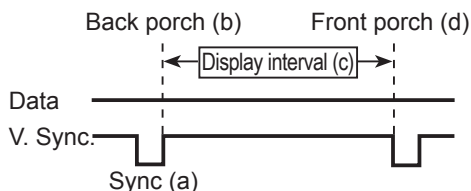
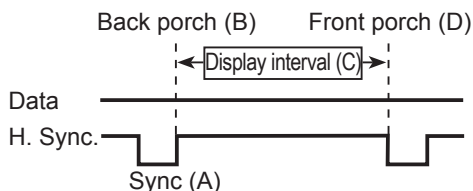
Example of computer signal

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.

Initial set signals

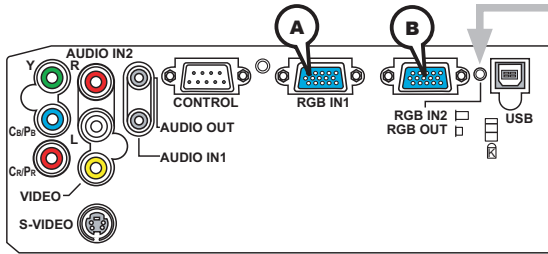
The following signals are used for the initial settings. The signal timing of some computer models may be different. In such case, adjust the items V POSITION and H POSITION in the IMAGE menu.



Computer/ Signal	Horizontal signal timing (μ s)			
	(A)	(B)	(C)	(D)
TEXT	2.0	3.0	20.3	1.0
VGA (60Hz)	3.8	1.9	25.4	0.6
VGA (72Hz)	1.3	4.1	20.3	0.8
VGA (75Hz)	2.0	3.8	20.3	0.5
VGA (85Hz)	1.6	2.2	17.8	1.6
SVGA (56Hz)	2.0	3.6	22.2	0.7
SVGA (60Hz)	3.2	2.2	20.0	1.0
SVGA (72Hz)	2.4	1.3	16.0	1.1
SVGA (75Hz)	1.6	3.2	16.2	0.3
SVGA (85Hz)	1.1	2.7	14.2	0.6
Mac 16" mode	1.1	3.9	14.5	0.6
XGA (60Hz)	2.1	2.5	15.8	0.4
XGA (70Hz)	1.8	1.9	13.7	0.3
XGA (75Hz)	1.2	2.2	13.0	0.2
XGA (85Hz)	1.0	2.2	10.8	0.5
1152 x 864 (75Hz)	1.2	2.4	10.7	0.6
1280 x 960 (60Hz)	1.0	2.9	11.9	0.9
1280 x 1024 (60Hz)	1.0	2.3	11.9	0.4
1280 x 1024 (75Hz)	1.1	1.8	9.5	0.1
1280 x 1024 (85Hz)	1.0	1.4	8.1	0.4
1600 x 1200 (60Hz)	1.2	1.9	9.9	0.4

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

Connection to the ports



RGB IN OUT switch

When this switch is not pushed in, RGB IN2 is selected.

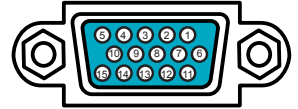
When this switch is pushed in, RGB OUT is selected.

Note: 8755D-RJ has a LAN port RJ-45.

Ⓐ RGB IN1, Ⓑ RGB IN2, RGB OUT

D-sub 15pin mini shrink jack

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



At RGB signal

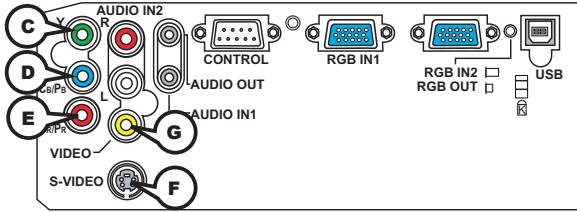
At component video signal

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

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

* Ⓑ Except when set to RGB OUT

Connection to the ports



COMPONENT VIDEO (C)Y, (D)Cb/Pb, (E)Cr/Pr

RCA jack x3

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

Port	Signal
Y	Component video Y, $1.0 \pm 0.1V_{p-p}$, 75Ω terminator with composite
Cb/Pb	Component video Cb/Pb, $0.7 \pm 0.1V_{p-p}$, 75Ω terminator
Cr/Pr	Component video Cr/Pr, $0.7 \pm 0.1V_{p-p}$, 75Ω terminator

(F)S-VIDEO

Mini DIN 4pin jack

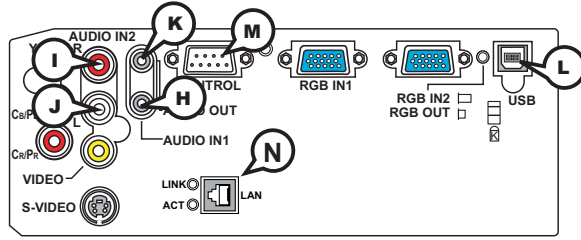


Pin	Signal
1	Color signal $0.286V_{p-p}$ (NTSC, burst), 75Ω terminator Color signal $0.300V_{p-p}$ (PAL/SECAM, burst) 75Ω terminator
2	Brightness signal, $1.0V_{p-p}$, 75Ω terminator
3	Ground
4	Ground

(G)VIDEO

RCA jack

- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60
- $1.0 \pm 0.1V_{p-p}$, 75Ω terminator



H AUDIO 1-IN (Ø3.5 stereo mini jack), **I** **J** AUDIO 2 L/R (RCA jack)

- 200mVrms(max.) 35kΩ termination

K AUDIO OUT (Ø3.5 stereo mini jack)

- 200mVrms(max.) 1kΩ output impedance

L USB

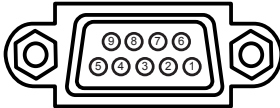
USB B type jack



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

M CONTROL

D-sub 9pin plug



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

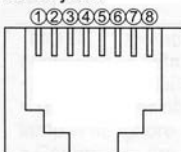
Pin	Signal	Pin	Signal	Pin	Signal
1	(No connection)	4	(No connection)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No connection)	9	(No connection)

N LAN Port RJ-45 Jack, **Model 8755D-RJ Only!**

Used for Ethernet input/output.

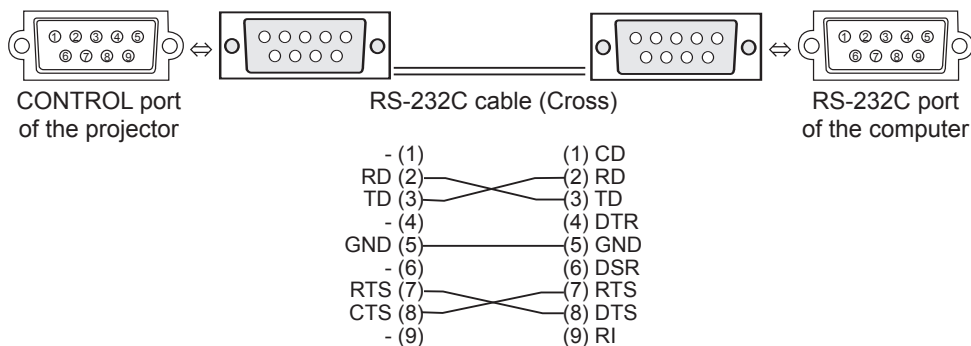
This port is used when utilizing network functions.

RJ-45 jack



Pin	Signal	Pin	Signal	Pin	Signal
1	TX+	4	-	7	-
2	TX-	5	-	8	-
3	RX+	6	RX-		

RS-232C Communication



Connecting the cable

1. Turn off the projector and the computer.
2. Connect the CONTROL port of the projector with a RS-232C port of the computer by a RS-232C cable (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
Action		Type		Setting code	
low	high	low	high	low	high

Action (byte_0 - 1)

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

Requesting projector status (Get command)

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

Changing the projector settings (Set command)

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

Using the projector default settings (Reset Command)

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

Increasing the projector setting value (Increment command)

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

Decreasing the projector setting value (Decrement command)

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

When 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.

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
				CRC	Action	Type	Setting Code		
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00	
(Example return) 00 00 01 00 02 00 (Off) (On) (Cool down)									
RGB2 Status	Get	BE EF	03	06 00	F1 D8	02 00	21 20	00 00	
		00 00 01 00 (RGB IN2) (RGB OUT)							
Input Source	Set	RGB IN 1	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		RGB IN 2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		S-VIDEO	BE EF	03	06 00	9E D3	01 00	00 20	02 00
		COMPONENT	BE EF	03	06 00	AE D1	01 00	00 20	05 00
	Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00	
Error Status	Get	BE EF	03	06 00	D9 D8	02 00	20 60	00 00	
		(Example return) 00 00 01 00 02 00 03 00 (Normal) (Cover error) (Fan error) (Lamp error) 04 00 05 00 06 00 07 00 (Temp error) (Air flow error) (Lamp time error) (Cool error) 08 00 (Filter 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 return) 00 00 01 00 04 00 10 00 (Normal) (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
	Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	

Names	Operation Type	Header				Command Data			
						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	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						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 OFFSET R	Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00	
	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 OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00	
	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 OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00	
	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			
						CRC	Action	Type	Setting Code
ASPECT	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		SMALL	BE EF	03	06 00	FE D1	01 00	08 20	02 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
	Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00	
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	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	BE EF	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
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
	REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00	
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		
FRAME LOCK	Set	TURN OFF	BE EF	03	06 00	CB D6	01 00	14 30	00 00
		TURN ON	BE EF	03	06 00	5B D7	01 00	14 30	01 00
	Get	BE EF	03	06 00	F8 D6	02 00	14 30	00 00	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	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	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
KEYSTONE V Reset	Execute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00	
WHISPER	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
	Get	BE EF	03	06 00	08 23	02 00	00 33	00 00	
MIRROR	Set	NORMAL	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		H:INVERT	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		V:INVERT	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		H&V:INVERT	BE EF	03	06 00	37 D2	01 00	01 30	03 00
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
		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	34 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	31 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	32 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	35 20	02 00
	Get	BE EF	03	06 00	01 DD	02 00	35 20	00 00	

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	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		
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	

RS-232C Communication (continued)

Names	Operation Type	Header				Command Data			
						CRC	Action	Type	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
		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
	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
		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

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

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