HITACHI

Liquid Crystal Projector

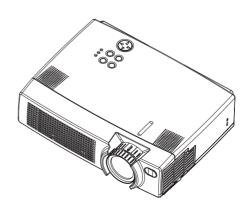
CP-X880W / CP-X885W

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

USER'S MANUAL, Vol. 2

TECHNICAL

REGULATORY NOTICES



LCD Projector CP-X880/CP-X885

USER'S MANUAL Vol.1 (Basic)

Thank you for purchasing this projector.

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

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

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

Dago

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PROJECTOR FEATURES

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

Ultra High Brightness

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

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing

One Touch Function

Just press the ONE TOUCH button to automatically retrieve input signals, calibrate images, and correct keystone distortion

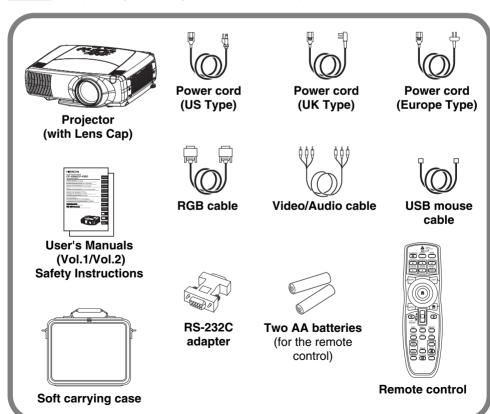
Whisper Mode Equipped

Special mode is available for reducing projector noise to achieve quieter operation

PREPARATIONS

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

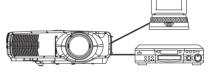
NOTE • Keep the original packing material for future reshipment.



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

- Only plug the power cord into outlets rated for use with the power cord's specified voltage range.
- Only use the power cord that came with the projector.
- NEVER ATTEMPT TO DEFEAT THE GROUND CONNECTION OF THE THREE-PRONGED PLUG!
- Make sure that you firmly connect the power cord to the projector and wall outlet.
- 1 Connect your devices to the projector Connect your computer, VCR and/or other devices you will be using to the projector.





8 ~ 12

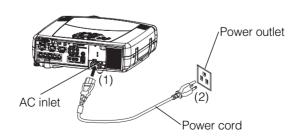
2 Insert the batteries into the remote control





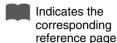
Connect the power cord

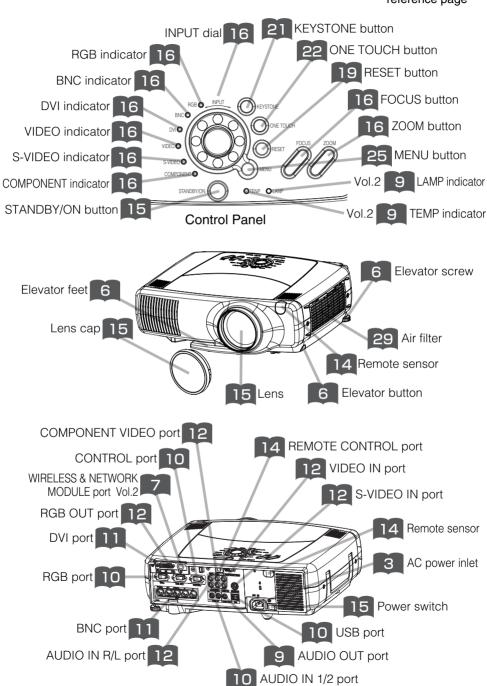
- (1) Connect the connector of the electrical power cord to the AC inlet of the main unit.
- (2) Firmly plug the power cord's plug into the outlet



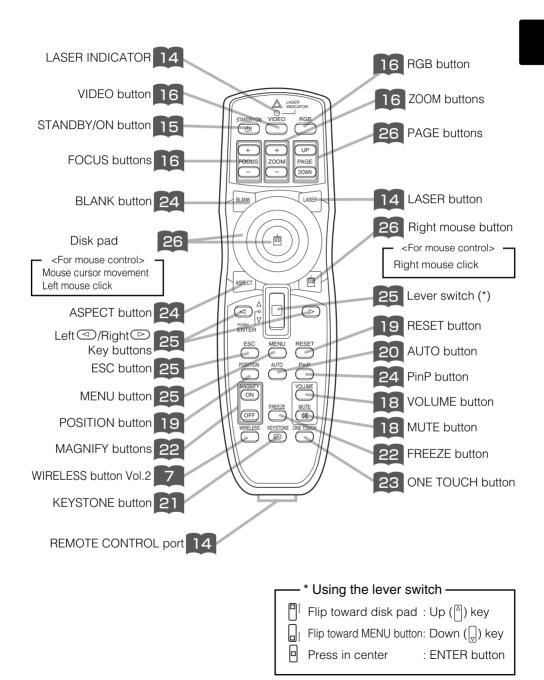
PART NAMES

THE PROJECTOR





THE REMOTE CONTROL



SETTING UP THE PROJECTOR

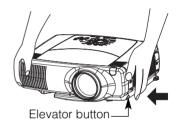
▲ CAUTION • Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.

 If you press the elevator buttons without holding the projector, the projector might crash down, overturn, smash your fingers and possibly result in malfunction. To prevent damaging the projector and injuring yourself, ALWAYS HOLD THE PROJECTOR whenever using the elevator buttons to adjust the elevator feet.

Adjusting the Projector's Elevator Feet

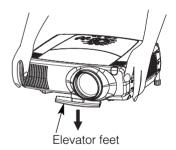
If the surface on which the projector is placed, or the screen is tilted, use the elevator feet and elevator screw to adjust the projection angle of the main unit. The adjustment range of the elevator feet is 0 to 9 degrees.

1 Press and hold in the elevator buttons

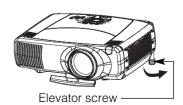


Raise or lower the projector to the desired height and then release the elevator buttons

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



Turn the elevator screw to fine tune.

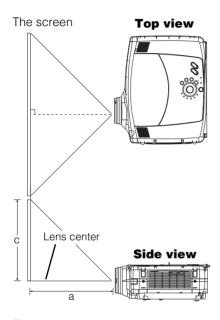


Adjusting the Screen Size and Projection Distance

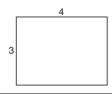
Refer to the illustrations and tables below to determine the screen size and projection distance.

The values shown in the table are calculated for a full size screen

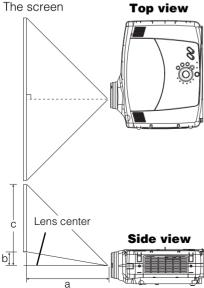
- a:Distance from the projector to the screen (±10%)
- b:Distance from the lens center to the bottom of the screen (±10%)
- c:Distance from the lens center to the top of the screen $(\pm 10\%)$



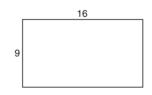
If 4:3 aspect ratio



Screen Size [inch (m)]	a [inc	h (m)]	b	С
Screen Size [inch (iii)]	Min.	Max.	[inch (cm)]	[inch (cm)]
30 (0.8)	34 (0.9)	52 (1.3)	0 (0)	18 (46)
40 (1.0)	46 (1.2)	71 (1.8)	0 (0)	24 (61)
50 (1.3)	58 (1.5)	89 (2.3)	0 (0)	30 (76)
60 (1.5)	71 (1.8)	107 (2.7)	0 (0)	36 (91)
70 (1.8)	83 (2.1)	126 (3.2)	0 (0)	42 (107)
80 (2.0)	95 (2.4)	144 (3.7)	0 (0)	48 (122)
90 (2.3)	108 (2.7)	162 (4.1)	0 (0)	54 (137)
100 (2.5)	120 (3.0)	181 (4.6)	0 (0)	60 (152)
120 (3.0)	144 (3.7)	217 (5.5)	0 (0)	72 (183)
150 (3.8)	181 (4.6)	272 (6.9)	0 (0)	90 (229)
200 (5.0)	243 (6.2)	364 (9.2)	0 (0)	120 (305)
250 (6.3)	304 (7.7)	455 (11.6)	0 (0)	150 (381)
300 (7.5)	366 (9.3)	547 (13.9)	0 (0)	180 (457)



If 16:9 aspect ratio



Screen Size [inch (m)]	a [inch (m)]		b	С
Screen Size [mcn (m)]	Min.	Max.	[inch (cm)]	[inch (cm)]
30 (0.8)	37 (0.9)	57 (1.4)	2 (6.2)	17 (44)
40 (1.0)	50 (1.3)	77 (2.0)	13 (32)	27 (70)
50 (1.3)	64 (1.6)	97 (2.5)	16 (41)	31 (78)
60 (1.5)	77 (2.0)	117 (3.0)	19 (49)	34 (86)
70 (1.8)	90 (2.3)	137 (3.5)	22 (57)	37 (94)
80 (2.0)	104 (2.6)	157 (4.0)	26 (65)	40 (102)
90 (2.3)	117 (3.0)	177 (4.5)	29 (73)	43 (110)
100 (2.5)	131 (3.3)	197 (5.0)	32 (81)	47 (118)
120 (3.0)	157 (4.0)	237 (6.0)	38 (97)	53 (134)
150 (3.8)	198 (5.0)	296 (7.5)	48 (121)	63 (159)
200 (5.0)	265 (6.7)	396 (10.1)	64 (162)	78 (199)
250 (6.3)	332 (8.4)	496 (12.6)	80 (202)	94 (240)
300 (7.5)	399 (10.1)	596 (15.1)	96 (243)	110 (280)

CONNECTING YOUR DEVICES

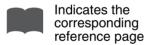
Devices You Can Connect to the Projector (Refer to this section for planning your device configuration to use for your presentation.)

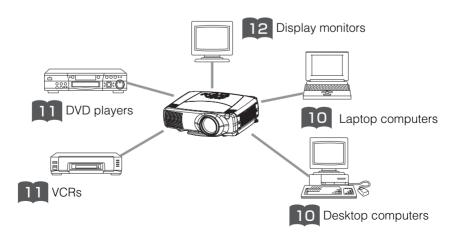


CAUTION • Incorrect connecting could result in fire or electrical shock. Please read this manual and the separate "SAFETY INSTRUCTIONS".

ATTENTION Precautions to observe when connecting other devices to the projector

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





Ports and Cables

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

Function	Projector Port	Connection Cables	
Analog RGB input	RGB	RGB cable (With D-sub 15-pin shrink jack and inch thread screws)	
	BNC(R/C _R /P _R)(G/Y)(B/C _B /P _B)(H)(V) • When BNC (RGB) is selected (*)	BNC cable	
Analog output	RGB OUT	RGB cable (With D-sub 15-pin shrink jack and inch thread screws)	
DVI input	DVI	DVI cable	
Audio input from computer	AUDIO IN 1 • Linked to RGB or DVI port input	Audio/video cable (Stereo mini)	
Addio input from computer	AUDIO IN 2 • Linked to BNC (RGB) port input (*)	Addio/video cable (Stereo IIIIIII)	
USB mouse control	USB	USB cable	
PS/2 mouse control		PS/2 mouse cable	
ADB mouse control	CONTROL	ADB mouse cable	
Serial mouse control	CONTROL	Serial mouse cable	
RS-232C communications		RS-232C adapter + RS-232C cable	
S video input	S-VIDEO IN	S-video cable (mini DIN 4-pin jack)	
Video input	VIDEO IN	Audio/video cable	
	COMPONENT(C _B /P _B)(C _B /P _B)(Y)		
Component video input	BNC(R/C _R /P _R)(G/Y)(B/C _B /P _B) • When BNC (COMPONENT) is selected (*)	Component video cable	
Audio input from video equipment	AUDIO IN R,L	Audio/video cable or audio cable (RCA jack)	
Audio output	AUDIO OUT	Audio cable (Stereo mini)	
Wired remote control signal input	REMOTE CONTROL	Audio cable (Stereo mini)	

^{*} Before using the BNC port, change RGB input to component video input on the BNC menu item of the INPUT menu.

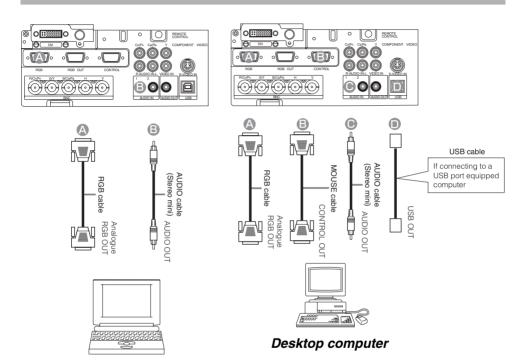
NOTE About Plug-and-Play Capability

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

CONNECTING YOUR DEVICES (continued)

Connecting to a Computer

ATTENTION Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop to CRT display or to simultaneous LCD and CRT display). For details on how this is done, please refer to the instruction manual of the corresponding laptop computer.



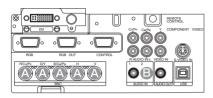
Laptop computer

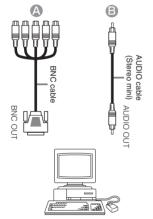
NOTE

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

Connecting to a Computer (continued)

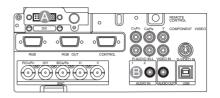
BNC Input

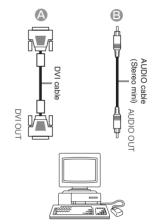




Desktop computer

DVI Input



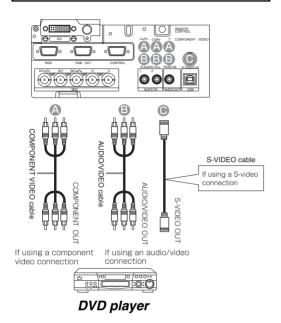


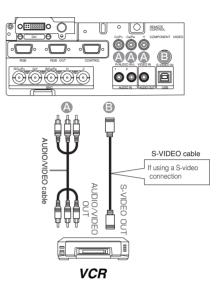
Desktop computer

CONNECTING YOUR DEVICES (continued)

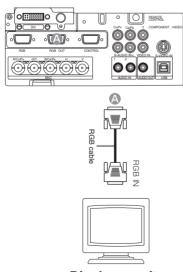
Connecting to a DVD Player

Connecting to a VCR





Connecting to a Display Monitor



Display monitor

USING THE REMOTE CONTROL

Putting batteries into the remote control unit

CAUTION Precautions to observe in regards to the batteries

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

- Keep the battery away from children and pets.
- Be sure to use only the batteries specified for use with the remote control. Do not mix new batteries with used ones.
- When inserting batteries, verify that the plus and minus terminals are aligned correctly (as indicated in the remote control).
- When you dispose the battery, you should obey the law in the relative area or country.
- Remove the battery cover

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



Insert the batteries

Align and insert the two AA batteries (that came with the projector) according to their plus and minus terminals (as indicated in the remote control).



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



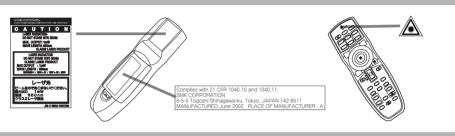
USING THE REMOTE CONTROL (continued)

Operating the remote control

<u>WARNING</u> • The laser pointer of the remote control transmitter is used in place of a finger or rod. Never look directly into the laser beam outlet or point the laser beam at other people. The laser beam cause vision problems.

 \triangle

<u>CAUTION</u> • Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



- The remote control works with both the projector's front and rear remote sensors.
- The range of the remote sensor on the front is 3 meters with a 60-degree range (30 degrees to the left and right of the remote sensor), and back is 3 meters with a 40-degree range.
- Since the remote control uses infrared light to send signals to the projector (Class 1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.
- The wired remote control:

You can use the remote control as a wired remote control, by connecting the REMOTE CONTROL ports of the main unit and remote control via an audio cable (3.5 dia. stereo mini cable with plugs).

3 meters

ATTENTION Precautions to observe when using the remote control

- Do not disassemble the remote control.
- Do not drop or otherwise expose the remote control to physical impact.
- Do not get the remote control wet or place it on wet objects. Doing so may result in malfunction.
- Do not place the remote control near the projector's lens, fan, or vents.
- Remove the batteries from the remote control and store them in a safe place if you
 won't be using the remote control for an extended period.
- Replace the batteries whenever the remote control starts to malfunction.
- When strong light, such as direct sunlight or light from an extremely close range (such as from an
 inverter fluorescent lamp), hits the projector's remote sensor, the remote control may cease to function.
 Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.

TURNING ON THE POWER

Precautions

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





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

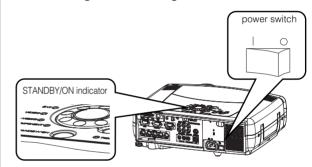


Make sure that the power cord is firmly and correctly connected to the projector and outlet

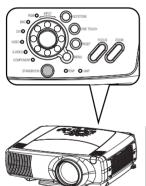


Turn on the projector's power 2

Set the power switch to [1] (ON). The STANDBY/ON indicator will light to solid orange.



Control panel



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

- The projector begins warming up and the STANDBY/ON indicator blinks green.
- The STANDBY/ON indicator stops blinking and lights to solid green once the projector's power is completely on.



NOTE Turn the power on/off in riaht order.

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

Remove the lens cap

The picture is projected.



TURNING ON THE POWER (continued)

Selecting an Input Signal

5 Using the remote control

If selecting RGB input Press the RGB button

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





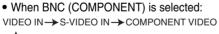
When BNC (COMPONENT) is selected:
 RGB → DVI

If selecting video input Press the VIDEO button

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

When BNC (RGB) is selected:

VIDEO IN→S-VIDEO IN→COMPONENT VIDEO



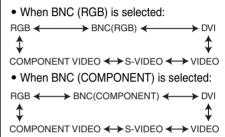
BNC(COMPONENT) ←

Using the projector's control panel

Turn the INPUT dial

Turning the dial cycles through the inputs as shown below. Select the terminal to which the signal you want to project is input.





NOTE

Turn the INPUT dial and set it at the click point, otherwise input signal selection may be incorrect.

6 Use the ZOOM 🛨 / 🖃 buttons to adjust the screen size





(Control panel)

(Remote control)

7 Use the FOCUS — / — buttons to adjust the focus





(Control panel)

(Remote control)

TURNING OFF THE POWER



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

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



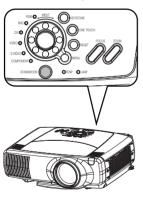
Press the STANDBY/ON button again 2 (control panel or remote control)

Press the STANDBY/ON button again while the "Power off?" message is visible. The projector lamp goes off and starts cooling down. While cooling, the STANDBY/ON indicator flashes orange. When in this state, pressing the STANDBY/ON button has no effect.

When lamp cooling is complete, the STANDBY/ON indicator stops flashing, and turning solid orange.

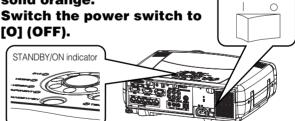


Control panel



Check that the STANDBY/ON indicator 3 stops blinking and lights to power switch

solid orange. Switch the power switch to



NOTE

· Except in cases of emergency, do not turn off the power switch while the STANDBY/ON indicator is solid or flashing green. Doing so could shorten the lamp lifetime.

Confirm that the STANDBY/ON indicator has 4 gone off and then attach the lens cap.

When the projector has completed powering down, the STANDBY/ON indicator will go off.

ADJUSTING THE VOLUME



Press the VOLUME button

As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the volume.





2 Use the lever switch ☐ / □ to adjust the volume

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



Press this to increase the volume

Press this to decrease the volume



TEMPORARILY MUTING THE SOUND



Press the MUTE button

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

Press the MUTE button again to restore the sound.



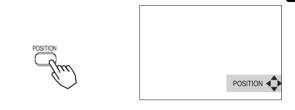


ADJUSTING THE POSITION



Press the POSITION button

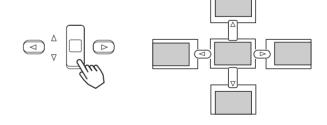
As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the position.



2 Use the ⓓ, Ď, ຝ, ਢ buttons to adjust the position

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

Press the POSITION button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.) This function is only available for RGB/BNC (RGB) input.



USING THE AUTOMATIC ADJUSTMENT FEATURE



Press the AUTO button



Automatic Adjustment for RGB Input

Horizontal position (H. POSIT), vertical position (V. POSIT), clock phase (H. PHASE) and horizontal size (H. SIZE) are automatically adjusted.

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

Automatic Adjustment for Video Input

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

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

NOTE

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

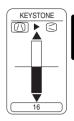
CORRECTING KEYSTONE DISTORTIONS



Press the KEYSTONE button

As illustrated on the right, a dialog will appear on the screen to aid you in correcting the distortion.





Use the ⓓ,ເ▷ buttons to select the direction of distortion to correct (⑴/◁)





3 Use the lever switch $^{\triangle} / _{\nabla}$ to correct distortion

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



NOTE

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

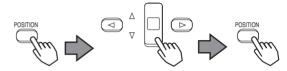
USING THE MAGNIFY FEATURE



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



Press the POSITION button, then use the lever switch \bigcirc / \bigcirc , \bigcirc / \bigcirc to select the area to zoom. Press the POSITION button again to finalize the zoom area.



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

NOTE

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

FREEZING THE SCREEN



Press the FREEZE button

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



NOTE

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

ADJUSTING SCREEN WITH ONE-TOUCH



■ Press the ONE TOUCH button

You can activate the following functions just by pressing the ONE TOUCH button:



(1) Signal search: Cycle through input signals, displaying the images of retrieved signals. If no signal is found, returns to the signal that was selected before the search was begun.

When BNC (RGB) is selected:

RGB → BNC(RGB) → DVI

COMPONENT VIDEO ← S-VIDEO ← VIDEO

When BNC (COMPONENT) is selected:



- (2) Automatic adjustment: In RGB mode, automatically adjust the picture position and size; for VIDEO input, automatically select the signal mode. (20)
- (3) Automatic keystone distortion correction: This is only performed if ONE TOUCH of the AUTO menu is set to TURN ON. When performed, the unit automatically corrects vertical keystone distortion due to the (forward/backward) setup angle of the main unit. (Vol.2 5)

NOTES

- May not function properly with some input signals.
- This function takes about 10 seconds to display an image.

SELECTING THE ASPECT RATIO



Press the ASPECT button

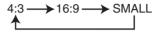
RGB, DVI, COMPONENT VIDEO

(HDTV signals: 1125i (1035i/1080i), 750p)

4:3 ←→ 16:9

VIDEO IN, S-VIDEO IN, COMPONENT VIDEO

(Non-HDTV signals : 525i, 525p,625i)





TEMPORARILY BLANKING THE SCREEN

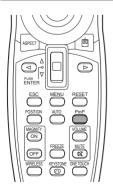


Press the BLANK button

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



DISPLAYING CHILD WINDOW (P. IN. P: Picture in Picture)



4 Press the P. in P. Button

You can display the video input in a child window while displaying RGB, BNC, or DVI input.

You can select the video input to display in the child window, and the position of the child window, from the INPUT menu. (Vol.2 4)

USING THE MENU FUNCTIONS



Press the MENU button

The menu display appears on the screen. The projector has the following menus: MAIN, PICTURE-1, PICTURE-2, INPUT, AUTO, SCREEN, and OPTION, WIRELESS, When you select a menu name using the lever switch $^{\triangle} / \mathbb{Q}$, the current settings of items that can be manipulated from that menu are displayed.



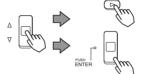
Use the lever switch \bigcap / \bigvee to select a menu, then

press the (>) or ENTER button

The display of the selected menu appears.

[ex. Adjusting SHARPNESS]

Use the lever switch $^{\triangle} / _{\nabla}$ to select PICTURE-1, then press the $^{\triangleright}$ or ENTER button.



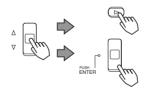
COLOR BAL B MAIN COLOR BAL B SHARPNESS INPUT COLOR AUTO SCREEN OPTION

Use the lever switch \bigcap / \bigvee to select SHARPNESS, 3 then press the (>) or ENTER button

The operation display of the selected item appears. To adjust a numerical value, press the (>) or ENTER button again to switch to the single menu (small display showing only the operation display area).

[ex. Adjusting SHARPNESS]

Use the lever switch [] / [to select SHARPNESS, then press the (>) or ENTER button.



MENU		
MAIN	COLOR BAL R	
PICTURE-1	COLOR BAL B	
PICTURE-2	SHARPNESS	
INPUT	COLOR	
AUTO	TINT	
SCREEN		
OPTION		
WIRELESS		
: SELECT		

NOTE

 For details about menu. operations, see the separate "MULTI **FUNCTIONAL** SETTINGS" (Vol. 2).

Use the lever switch | | | | to adjust the level

Press the MENU button to hide the menu and finish your operation. Alternatively, press the () or ESC button to return to the previous display.

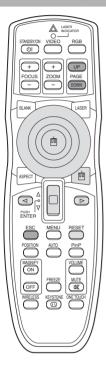
[ex. Adjusting SHARPNESS]

OPERATING THE PC SCREEN

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

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

- Only connect to a PC.
- Before connecting, read the manuals of the device you will connect.
- Do not unplug the connector cables while the computer is operating.



PS/2, ADB, Serial Mouse Control

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

Available Functions	Remote Control Operation
Move Pointer	Move using 💮 on the disk pad
Left click with mouse	Press the center (a) of the disk pad
Right click with mouse	Press the right mouse button

USB Mouse/Keyboard Control

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

Available Functions	Remote Control Operation
Move Pointer	Move using 🚱 on the disk pad
Left click with mouse	Press the center of the disk pad
Right click with mouse	Press the right mouse button 📵
Press the keyboard's ← → ↑ ↓ keys	Press 🗇 🕞 🖺 🔻
Press the keyboard's ENTER key	Press the ENTER button
Press keyboard's PAGE UP key	Press PAGE UP button
Press keyboard's PAGE DOWN key	Press PAGE DOWN button
Press keyboard's ESC key	Press ESC button

NOTES

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

THE LAMP









HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

To replace the lamp, check the model number of the replacement lamp (sold separately) and contact vour local dealer.

Replacement lamp model number: DT00531

If the projector is mounted on the ceiling, or if the lamp has broken, ask your dealer to replace the lamp. Lamp replacement is hazardous and should not be attempted by the user.

Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, 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.

The LCD projector uses a glass lamp bulb. It is a mercury lamp with high **⚠ WARNING** internal pressure. High-pressure mercury lamps can break with a loud bang, or burn out, if jolted or scratched, or through wear over time. Each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the replace lamp indicator (see "Related Messages" (Vol.2 3) and "Regarding the indicator Lamps" (Vol.2 9)) comes on, replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- Obey local ordinances when disposing of used lamps. In most cases, it is possible to dispose of used bulbs in the same manner as used glass bottles, but in some cases, bulbs are sorted separately.
- Do not use the projector with the lamp cover removed.

THE LAMP (continued)

Replacing the lamp

All projector lamps will wear out eventually. If used for long periods of time, the image could become darkened, and the color contrast could be impacted as well. We recommend that you replace your lamps early. If the LAMP indicator turns red, or a message prompts you to replace the lamp when you power up the projector, the lamp needs to be replaced. (See "Related Messages" (Vol.2 1311) and "Regarding the Indicator Lamps" (Vol.2) for details.)

- Turn off the projector, and unplug the 1 power cord. Allow the lamp bulb to cool for at least 45 minutes, and prepare a new lamp (serial number: DT00531)
- After making sure that the projector has cooled adequately, slide the knob of a lamp cover lock as shown in the figure. Then, one side of the lamp cover is raised. Pull up the lamp cover and remove it, as shown in the figure



Unscrew the 3 screws, and slowly pull out the lamp by the handle

• Be careful not to touch the inside of the lamp case.



- Insert the new lamp, and 4 tighten the 3 screws firmly to lock it in place
- 5 lamp cover to the projector, put the lamp cover on the projector. Then push the point of the lamp cover to fix it, as shown in the figure. Make sure that the lamp cover does't come up

Interlocking the 2 tabs of the



- Turn on the projector power, 6 and reset the lamp timer
 - To reset the lamp timer, from the OPTION menu, select the LAMP TIME. (Vol.2 7

ATTENTION • Make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.

- Do not use with lamp cover removed.
- · Do not reset the lamp timer without replacing the lamp. Reset the lamp timer always when replacing the lamp. The message functions will not operate properly if the lamp timer is not reset correctly.
- When the lamp has been replaced after the message of "CHANGE THE LAMPTHE POWER WILL TURN OFF AFTER 0 hr." is displayed, or the LAMP indicator is red, complete the following operation within 10 minutes of switching power on.

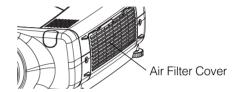
• The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power off, wait approximately 20 minutes, and switch power on again. If the LAMP indicator is still red, replace the lamp.

THE AIR FILTER

Caring for the air filter

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

- Turn off the projector, and unplug the power cord
- 2 Apply a vacuum cleaner to the top of the air filter cover to clean the air filter



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

THE AIR FILTER (continued)

Replacing the air filter

If the soiling will not come off the air filter, or it becomes damaged, then it needs to be replaced. Please contact your local dealer, after confirming the model of your separately sold replacement air filter.

Replacement air filter model: NJ07081

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

- Insert the new filter, and replace the filter cover
- **4** Turn on the projector power, and using the menu, reset the filter timer
 - To reset the lamp timer, from the OPTION menu, select FILTER TIME.

ATTENTION • Make sure to turn off the power and unplug the power cord before caring for the unit. Please carefully read "Safety Instructions", in order to care for your projector correctly.

- Do not use with air filter cover removed.
- If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The power is automatically turned off in order to prevent the unit from overheating internally.

OTHER CARE

Caring for the inside of the projector:

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

Caring for the lens:

Lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

Caring for the cabinet and remote control transmitter:

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

ATTENTION • Make sure to turn off the power and unplug the power cord before caring for the unit. Please carefully read "Safety Instructions" in this manual, in order to care for your projector correctly.

- Do not use cleaners or chemicals other than those listed above, including benzene and paint thinner.
- Do not use aerosols or sprays.
- Do not polish or wipe with hard objects.

LCD Projector CP-X880/CP-X885

USER'S MANUAL Vol.2 (Extended)

Thank you for purchasing this projector.

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

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

- The manufacturer assumes no responsibility for any errors that may appear in this manual
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For "TECHNICAL" see the end of this manual.

MULTIFUNCTIONAL SETTINGS

This device has 8 separate menus: MAIN, PICTURE-1, PICTURE-2, INPUT, AUTO, SCREEN, OPTION, WIRELESS. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

Menu screen display: Press the "MENU" button.

Menu selection : Use the lever switch $^{\triangle}/_{\triangledown}$ to select a menu name, then press the

or ENTER button.

Item selection : Use the lever switch $^{a}/_{\coloredge}$ to select an item, then press the \coloredge or

ENTER button.

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

Execution of settings and/or adjustments: Perform the operation using the lever switch $\sqrt[a]{\sqrt{a}}$.

(For further details, read the explanation for each separate menu.)

Initialization of settings and/or adjustments: During operation, press the RESET button.

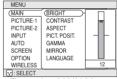
(Functions that are executed at the same time as a selection, including H PHASE, LANGUAGE selection, and ADJUST, will not be reset.)

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

MAIN Menu

With the MAIN menu, the seven items shown in the Table below can be performed.

Perform each operation in accordance with the instructions in the Table.



Example : MAIN Menu (BRIGHT)

MAIN Menu

Item	Description
BRIGHT	Adjust Brightness: Light A ⇔ Dark
CONTRAST	Adjust Contrast: Strong A ⇔ Weak
ASPECT	Select Aspect Ratio: At RGB Input or Hi-Vision 1125i(1035i/1080i)/750p of COMPONENT VIDEO Input: 4:3
PICT.POSIT.	Select Picture Position (for 16:9/SMALL Picture): TOP □ ⇔ □ CENTER □ ⇔ □ BOTTOM
GAMMA	Select Gamma Mode: NORMAL $_{\mathbb{Q}} \Leftrightarrow ^{\mathbb{A}}$ CINEMA $_{\mathbb{Q}} \Leftrightarrow ^{\mathbb{A}}$ DYNAMIC
MIRROR	Select Mirror Status: NORMAL $_{\mathbb{Q}} \Leftrightarrow ^{\mathbb{A}}$ H:INVERT $_{\mathbb{Q}} \Leftrightarrow ^{\mathbb{A}}$ V:INVERT $_{\mathbb{Q}} \Leftrightarrow ^{\mathbb{A}}$ H&V:INVERT
LANGUAGE	Select Menu Language: ENGLISH 및 ⇔ P FRANÇAIS 및 ⇔ P DEUTSCH 및 ⇔ P ESPAÑOL 및 ⇔ P ITALIANO 및 ⇔ P NORSK 및 ⇔ NEDERLANDS 및 ⇔ P 日本語 및 ⇔ P POTUGUÊS 및 ⇔ P 中文 및 ⇔ P 한글

PICTURE-1 Menu

With the PICTURE-1 menu, the five items shown in the Table below can be performed.

Perform each operation in accordance with the instructions in the Table.

MENU		
MAIN	(COLOR BAL R)	
PICTURE-1	COLOR BAL B	
PICTURE-2	SHARPNESS	
INPUT	COLOR	
AUTO	TINT	
SCREEN		
OPTION		
WIRELESS		12
SELECT		
Example	· PICTLIBE	1 Menu

Example : PICTURE1 Menu (COLOR BAL R)

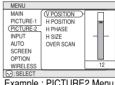
PICTURE-1 Menu

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

PICTURE-2 Menu

With the PICTURE-2 menu, the five items shown in the Table below can be performed.

Perform each operation in accordance with the instructions in the Table.



Example : PICTURE2 Menu (V POSITION)

PICTURE-2 Menu

Item	Description
V POSITION	Adjust Vertical Position (for RGB): Up ☐ ⇔ ¬ Down
H POSITION	Adjust Horizontal Position (for RGB): Left (a) ⇔ (g) Right
H PHASE	Adjust Horizontal Phase (for RGB/COMPONENT VIDEO): Right (a) ⇔ □ Left • Adjust to eliminate flicker.
H SIZE	Adjust Horizontal Size (for RGB): Large ⇔
OVER SCAN	Select Over-scan Ratio (for VIDEO/S-VIDEO/COMPONENT VIDEO): LARGE ⇔ MIDDLE ⇔ SMALL If you select LARGE, you may note streaking on the top and bottom of the screen, or flicker. If this is irritating, we suggest you select SMALL.

MULTIFUNCTIONAL SETTINGS (continued)

INPUT Menu

The three Input menu items listed in the table below can be manipulated. For RGB input, the reception signal's horizontal and vertical frequency is displayed on the initial menu screen. Use the table below as a guide for operation.

MENU				
MAIN	(BNC	⊢RGB		
PICTURE-1	VIDEO	COMPONENT		
PICTURE-2	HDTV			
INPUT	SYNC ON G			
AUTO	P. IN P. INPUT			
SCREEN	P. IN P. POSIT			
OPTION				
WIRELESS	l	J		
SELECT				

Example : INPUT Menu (BNC)

INPUT Menu

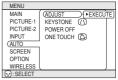
INPUT Menu	, , ,
Item	Description
BNC	$\begin{array}{c} \text{BNC Pin (R/C_{\text{R}}/P_{\text{R}}, \text{G/Y}, \text{B/C}_{\text{B}}/P_{\text{B}}, \text{H, V) function selection:}} \\ \text{BNC (RGB)} & \Leftrightarrow & \text{BNC (COMPONENT)} \\ \hline & \text{(R) (G) (B) (H) (V)} & & \text{(}C_{\text{R}}/P_{\text{R}}) \text{ (Y) (}C_{\text{B}}/P_{\text{B}}) \text{ (-) (-)}} \\ \text{(Pins for RGB)} & & \text{(Pins for COMPONENT)} \\ \text{Selecting BNC (RGB) allows the 5 RGB2 pins (R/C_{\text{R}}/P_{\text{R}}, \text{G/Y}, \text{B/C}_{\text{B}}/P_{\text{B}}, \text{H, V) to be}} \\ \text{used as RGB signal BNC input as-is.} \\ \text{Selecting BNC (COMPONENT) allows the 3 leftmost RGB2 pins (R/C_{\text{R}}/P_{\text{R}}, \text{G/Y}, \text{B/C}_{\text{B}}/P_{\text{B}})} \\ \text{to be used as the COMPONENT VIDEO input $C_{\text{R}}/P_{\text{R}}, \text{Y, and $C_{\text{B}}/P_{\text{B}}$ pins.}} \end{array}$
	Select Mode of Signal Type (for VIDEO/S-VIDEO):
VIDEO	AUTO □ ⇔ ♠ NTSC □ ⇔ ♠ PAL □ ⇔ ♠ SECAM □ ⇔ ♠ NTSC4.43 □ ⇔ ♠ M-PAL □ ⇔ ♠ N-PAL When AUTO is selected, the video/ S-video input function under ADJUST (5) are enabled, and is executed simultaneously so that the optimum signal mode is selected from among the modes listed above. Use this function if the image becomes unstable with VIDEO/S-VIDEO. (e.g. The image becomes irregular, or lacks color.) AUTO mode may not function correctly with a PAL60 signal and certain other signals. The AUTO mode operation requires approximately 10 seconds. For COMPONENT VIDEO, the signal type is identified automatically even if this function is inactive. For a HDTV signal, refer to the item HDTV below.
HDTV	Select HDTV Signal Mode: 1080i
SYNC ON G	On/Off SYNC ON G Mode: TURN ON ⇔ TURN OFF Selecting TURN ON turns on the SYNC ON G mode. The SYNC ON G mode allows reception of SYNC on G. • In the SYNC ON G mode, the picture may be distorted with certain input signals. In such a case, remove the signal connector so that no signal is received and turn SYNC ON G off, and then reconnect the signal.
P. IN P. INPUT	P. IN P. screen (*) input signal selection: VIDEO □ ⇔ △ S-VIDEO Selects the signal displayed on the P. IN P. subscreen.
P. IN P. POSIT	P. IN P. screen (*) display position selection: □ □ □ ⇔ □ □ □ ⇔ □ □ □ ⇔ □ □ Selects the position at which the P. IN P. subscreen is displayed.

^(*) The P. IN P. (picture-in-picture) function displays the video signal image in a subscreen (P. IN P. screen) on top of the screen on which the RGB signal image is being displayed. (See "Displaying Child Window" Vol.1 24.)

AUTO Menu

With the AUTO menu, the four items shown in the Table below can be performed.

Please perform each operation in accordance with the instructions in the Table.



Example : AUTO Menu (ADJUST)

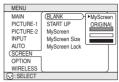
AUTO Menu

Item	Description
ADJUST	Auto Adjust (for RGB): Automatically adjusts H POSITION, V POSITION, H PHASE, and H SIZE. Use this function with the maximum window size. Auto Adjust (for VIDEO/S-VIDEO): This function automatically selects the appropriate signal mode depending on input signals. This is only performed if AUTO is selected on the VIDEO menu item (4) of the INPUT menu. • This function may not be available with a PAL60 signal and certain other signals. • The AUTO mode operation requires approximately 10 seconds. • For COMPONENT VIDEO, the signal type is identified automatically even if this function is inactive. For more information on HDTV signals, see HDTV. (4)
KEYSTONE (/)	Automatic keystone distortion correction: You can automatically correct vertical keystone distortion corresponding to the angle (forward/backward tilt) at which the unit is set up. • If the projection screen is inclined, or if the projector is angled downwards, it may not be possible to make the correct adjustment when V: INVERT or H&V: INVERT is selected under the MIRROR item of the MAIN menu. • When the zoom adjustment is set to the TELE side, automatic correction may be excessive. The automatic correction function should be used with zoom set to WIDE whenever possible.
POWER OFF	Adjust POWER OFF Time: Long (MAX. 99 min.)
ONE TOUCH (2)	Enabling/disabling the KEYSTONE ⚠ function using the ONE TOUCH Dutton: TURN ON → ↑ TURN OFF Pressing the ONE TOUCH button will automatically retrieve pictures and automatically adjust the screen (see "ADJUSTING SCREEN WITH ONE-TOUCH" Vol.1 23), and you can also set the function to execute KEYSTONE ⚠ (see above in this table) simultaneously when pressed. KEYSTONE will be executed if TURN ON is selected.

MULTIFUNCTIONAL SETTINGS (continued)

SCREEN Menu

With the SCREEN menu, the five items shown in the Table below can be performed. Please perform each operation in accordance with the instructions in the Table.



Example : SCREEN Menu (BLANK)

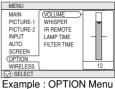
SCREEN Menu

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

OPTION Menu

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

Please perform each operation in accordance with the instructions in the Table.



(VOLUME)

OPTION Men	u '	VOLUME)			
Item	Description				
VOLUME	Adjust Volume: High ☐ ⇔ 및 Low				
WHISPER	Select WHISPER Mode: NORMAL → M WHISPER When WHISPER is selected the WHISPER mode is activated. In mode, acoustic noise and screen brightness are reduced.	the WHISPER			
IR REMOTE	Selecting the remote control receiver: The unit has 3 remote control receivers, as shown in the figure to the right (1, 2, and 3). You can select which of them to activate ("v" in the figure), and which to disable. • The ambient lighting and other factors may prevent the remote control operation from functioning properly. If this happens, use this function to disable receivers being impacted by unneeded light.	2 3 3 1 1 2 2 3 3 3 1 1 2 2 2 3 3 3 1 1 2 2 2 3 3 3 1 1 1 2 2 2 3 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 1 3 2 3 3 1 3 1			
LAMP TIME	Refer to LAMP TIME: When set, this function displays the total time the projector lamp has been used since new. Reset LAMP TIME [Use this function only when the lamp has been replaced!]: Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the lamp with a new lamp, select RESET on the menu with the button. • Do not reset the lamp time unless you have replaced the lamp. And, always reset the lamp time when replacing the lamp. The message functions will not operate properly if the lamp time is not reset correctly.				
FILTER TIME	Before replacing the lamp, carefully read the descriptions headed "THE LAMP". Refer to FILTER TIME: This function displays the total time the air-filter has been used since new. Reset FILTER TIME [Use this function only when the filter is cleaned or replaced!]: Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the filter, select RESET on the menu with the button. RESET ⇔ CANCEL Do not reset the filter time unless you have cleaned or replaced the filter. And, always reset the filter time when cleaning or replacing the filter. The message functions will not operate properly if the filter time is not reset correctly. Before cleaning or replacing the filter, carefully read the descriptions headed "THE AIR FILTER".				

WIRELESS Menu

The WIRELESS menu is only enabled if the wireless function is enabled. Using the wireless function requires a Wireless & Network Module Terminal (sold separately). See the Wireless & Network Module Terminal user's manual for more information about the WIRELESS menu. Contact your local dealer for more information about the wireless function and Wireless & Network Module Terminal.

WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED

Related Messages

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

Message	Description
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. (Note 1)	Lamp usage time is approaching 2,000 hours. (Note 2) Preparation of a new lamp, and an early lamp change, is recommended. After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER * * hr. (Note 1)	Lamp usage time is approaching 2,000 hours. A lamp change within * * hours is recommended. (Note 2) When lamp usage reaches 2,000 hours, the power will automatically be turned OFF. Please change the lamp by referring to "THE LAMP" (Vol.1 27). After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER 0 hr.	As lamp use has reached 2,000 hours, the power will soon be automatically turned OFF. (Note 2) Please immediately turn the power OFF, and follow the instructions in the "THE LAMP" (Vol.1 27). After you have changed the lamp, please be sure to reset the lamp timer. (7)
CLEAN THE AIR FILTER AFTER CLEANING AIR FILTER, RESET THE FILTER TIMER.	A note of precaution when cleaning the air filter. After cleaning the filter, operate FILTER TIME of the OPTION Menu (), and perform reset of the filter timer.
NO INPUT IS DETECTED ON * * *	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ON *** fH *****kHz fV *****Hz	The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit. Please confirm the specs for this unit or the signal source specs.
CHECK THE AIR FLOW	The internal portion temperature is rising. Please turn the power OFF, and allow the unit to cool down for approximately 20 minutes. After having confirmed the following items, then please resent the power to ON. Is there blockage of the air passage aperture? Is the air filter dirty? Does the peripheral temperature exceed 35°C?

NOTES

- Note 1: Although this message will be automatically disappeared after around 3 minutes, it will be reappeared every time the power is turned ON.
- Note 2: Lamps have a finite product life. Lamps are characterized by the fact that, after long hours of usage, a lamp will no longer light up, or the lamp will break or burst, etc. This unit is equipped with an automatic shut-down function, such that the power will automatically be turned OFF when lamp usage time has reached 2,000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes; a lamp may thus fail to light even prior to the functioning of the automatic shut-down function of this unit.

Regarding the Indicator Lamps

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

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

NOTE

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

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

Phenomena That May Easily Be Mistaken for Machine Defects

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

Phenomenon	Cases not involving a machine defect	Items to be confirmed	Reference Page(s)
	The main power source is not ON.	Turn on the main power.	Vol.1-3, 15
	The electrical power cord is not plugged in.	Correctly connect the power cord.	VOI. 1-3, 13
Power does not come ON	The main power source has been interrupted during operation, such as by a power outage (blackout), etc.	Turn on the main power. Correctly connect the power cord. Be sure to press the "O" (power OFF) side of the main power switch, and leave this OFF for approximately 20 minutes. After the uni has sufficiently cooled down, turn ON the power source. Select the input signal, and correct the settings. Correctly connect the connection cord. Correctly connect the connection cord. Adjust the VOLUME setting to a higher level. Press the MUTE button to release (change) the MUTE mode setting. Correctly connect the connection cord. Adjust the BRIGHT setting to a brighter level. Remove the lens cap. Perform picture adjustments by changing the COLOR BAL R, the COLOR BAL B, and/or the TINT settings, etc. Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc. Change (by releasing) from the WHISPER mode. Exchange the old lamp with a new lamp. Adjust the FOCUS and H PHASE settings.	Vol.1-15
No sound or pictures are	The input changeover settings are mismatched.		Vol.1-16
outputted	No signal is being inputted.	Correctly connect the connection cord.	Vol.1-8-12
Pictures are	The electrical wiring to this unit is not correctly connected.	Correctly connect the connection cord.	Vol.1-8-12
displayed, but no sounds are heard	The volume setting has been set at (or adjusted to) an extremely low level.	Adjust the VOLUME setting to a higher level.	Vol.1-18
Sourius are riearu	is not correctly connected. The volume setting has been set at (or adjusted to) an extremely low level. The MUTE mode is the current setting. The electrical wiring to this unit is not correctly connected. The brightness setting has been set at (or adjusted to) an extremely low level. The brightness setting has been set at (or adjusted to) an extremely low level. Correctly connect the connection cord. Volume setting to a higher level. Volume setting to a higher level.	Vol.1-18	
Sounds are		Correctly connect the connection cord.	Vol.1-8-12
heard, but no pictures are			Vol.2-2
displayed	The lens cap has not been removed.	Remove the lens cap.	Vol.1-15
Colors have a faded- out appearance Color tone is poor	Color depth setting or color tone setting	Perform picture adjustments by changing the COLOR BAL R, the COLOR BAL B, and/or the TINT settings, etc.	Vol.2-3
	The brightness setting and/or contrast setting has not been properly adjusted.	Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc.	Vol.2-2
Pictures appear dark	The WHISPER mode is the current setting.	Change (by releasing) from the WHISPER mode.	Vol.2-7
	Lamp is approaching the end of its product lifetime.	Exchange the old lamp with a new lamp.	Vol.1-27, 28
Pictures appear blurry	Either the FOCUS setting or the H PHASE is not properly adjusted.	Adjust the FOCUS and H PHASE settings.	Vol.1-16 Vol.2-3
Input signal changes with no-operation.	INPUT dial is set between the click points.	Turn the INPUT dial and set it at the click point.	Vol.1-16

NOTE

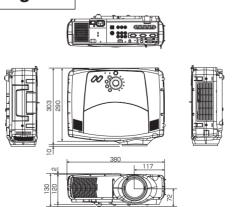
Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

SPECIFICATIONS

NOTE • This specifications are subject to change without notice.

Item		Spec	Specification				
Product na	ame	Liquid crystal projector	Liquid crystal projector				
Liquid	Panel size	2.5 cm (0.99 type)					
crystal	Drive system	TFT active matrix					
panel	Pixels	786,432 pixels (1024 horizonta	al x 768 vertical)				
Lens	1	Zoom lens F=1.7 ~ 2.4 f=30.5	5 ~ 45.8 mm				
Lamp		275 W UHB					
Speaker		1.0W+1.0W (Stereo)					
Power sup	ply	AC100 ~ 120V, 4.7A / AC220	~ 240V, 2.0A				
Power con	sumption	430W					
Temperatu	ire range	0 ~ 35°C (Operating)					
Size		380 (W) x 120 (H) x 290 (D) m	380 (W) x 120 (H) x 290 (D) mm (Not including protruding parts)				
Weight (ma	ass)	5.7 kg	5.7 kg				
Ports		RGB Input Ports RGB	AUDIO Ports AUDIO IN 1				
Optional Parts		Lamp: DT00531 Air Filter: NJC * For others, consult your deal					

Dimension Diagram



Unit: mm

WARRANTY AND AFTER-SERVICE

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

TECHNICAL

SIGNAL CONNECTOR PIN ASSIGNMENT

RGB IN [1]/[2] RGB OUT



D-sub 15-pin Shrink

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

S-VIDEO



Mini Din 4-pin

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

signal	Terminal	Specification			
	RGB	Video: RGB separate, Analog, 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack			
RGB signal input	BNC (RGB) (R,G,B,H,V)	Video: RGB separate, Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level BNC connector x 5			
	DVI	TMDS, DC 150-1200 mV/AC 1.56 Vp-p, TTL Level (Positive/Negative) DVI connector			
	AUDIO IN 1	200mVrms, 57Ω (max. 3.0Vp-p)			
	AUDIO IN 2	Stereo mini jack			
	VIDEO IN	1.0Vp-p, 75Ω terminator, RCA jack			
	S-VIDEO IN	Brightness signal: 1.0Vp-p, 75 Ω terminator Color signal: 0.286Vp-p (NTSC, burst signal),75 Ω terminator Color signal: 0.300Vp-p (PAL/SECAM, burst signal),75 Ω terminator Mini DIN 4-pin jack			
Video signal input	COMPONENT VIDEO (CR/PR, CB/PB, Y)	Y signal: 1.0 Vp-p, 75 Ω terminator CR/PR signal: 0.7 Vp-p, 75 Ω terminator			
	BNC (COMPONENT) (CR/PR, CB/PB, Y)	Cb/Ps signal: 0.7 Vp-p, 75 Ω terminator RCA jack x 3 (BNC connector x 5)			
	AUDIO IN (R,L)	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack			
Signal output	RGB OUT	Video: RGB separate, Analog 0.7Vp-p, 75Ω (positive) Sync.: H,V separate, TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack			
	AUDIO OUT	200mV(rms), output impedance 1kΩ (max. 3.0Vp-p) Stereo mini jack			
Control	CONTROL	D-sub 15pin shrink plug			
functions	USB	USB jack (B type)			

EXAMPLE OF COMPUTER SIGNAL

Resolution	fH (kHz)	fH (kHz) fV (Hz) Rating Signal		Signal mode	Display mode		
H×V	III (KIIZ)	IV (HZ)	natilig	Signal inode	CP-X880	CP-X885	
720 × 400	37.9	85.0	VESA	TEXT	Zoom in	Zoom in	
640 × 480	31.5	59.9	VESA	VGA (60Hz)	Zoom in	Zoom in	
640 × 480	35.0	66.7		Mac13"mode	Zoom in	Zoom in	
640 × 480	37.9	72.8	VESA	VGA (72Hz)	Zoom in	Zoom in	
640 × 480	37.5	75.0	VESA	VGA (75Hz)	Zoom in	Zoom in	
640 × 480	43.3	85.0	VESA	VGA (85Hz)	Zoom in	Zoom in	
800 × 600	35.2	56.3	VESA	SVGA (56Hz)		Zoom in	
800 × 600	37.9	60.3	VESA	SVGA (60Hz)		Zoom in	
800 × 600	48.1	72.2	VESA	SVGA (72Hz)		Zoom in	
800 × 600	46.9	75.0	VESA	SVGA (75Hz)		Zoom in	
800 × 600	53.7	85.1	VESA	SVGA (85Hz)		Zoom in	
832 × 624	49.7	74.5		Mac16"mode	Zoom out	Zoom in	
1024 × 768	48.4	60.0	VESA	XGA (60Hz)	Zoom out		
1024 × 768	56.5	70.1	VESA	XGA (70Hz)	Zoom out		
1024 × 768	60.0	75.0	VESA	XGA (75Hz)	Zoom out		
1024 × 768	68.7	85.0	VESA	XGA (85Hz)	Zoom out		
1152 × 864	67.5	75.0	VESA	SXGA (75Hz)	Zoom out	Zoom out	
1280 × 960	60.0	60.0	VESA	SXGA (60Hz)	Zoom out	Zoom out	
1280 × 1024	64.0	60.0	VESA	SXGA (60Hz)	Zoom out	Zoom out	
1280 × 1024	80.0	75.0	VESA	SXGA (75Hz)	Zoom out	Zoom out	
1280 × 1024	91.2	85.0	VESA	SXGA (85Hz)	Zoom out	Zoom out	
1600 × 1200	75.0	60.0	VESA	UXGA (60Hz)	Zoom out	Zoom out	

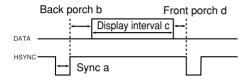
NOTE • Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

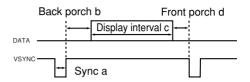
- Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.
- Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.
- Although the projector can display signals (except DVI input) with resolution up to UXGA (1,600 x 1,200), 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.
- The image may not be displayed correctly when the input sync. signal is "Composite Sync." or "Sync. on G".
- UXGA (1,600 x 1,200) signals cannot be displayed with DVI input.

INITIAL SET SIGNALS

The following signals are used for the initial settings.

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





Computer /	Horizontal signal timing (µs)			Computer /	Vertic	al signa	l timimg	(lines)	
Signal	а	b	С	d	Signal	а	b	С	d
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	400	1
VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10
Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3
VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	3	28	480	9
VGA (75Hz)	2.0	3.8	20.3	0.5	VGA (75Hz)	3	16	480	1
VGA (85Hz)	1.6	2.2	17.8	1.6	VGA (85Hz)	3	25	480	1
SVGA (56Hz)	2.0	3.6	22.2	0.7	SVGA (56Hz)	2	22	600	1
SVGA (60Hz)	3.2	2.2	20.0	1.0	SVGA (60Hz)	4	23	600	1
SVGA (72Hz)	2.4	1.3	16.0	1.1	SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	1.6	3.2	16.2	0.3	SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	1.1	2.7	14.2	0.6	SVGA (85Hz)	3	27	600	1
Mac 16"mode	1.1	3.9	14.5	0.6	Mac 16"mode	3	39	624	1
XGA (60Hz)	2.1	2.5	15.8	0.4	XGA (60Hz)	6	29	768	3
XGA (70Hz)	1.8	1.9	13.7	0.3	XGA (70Hz)	6	29	768	3
XGA (75Hz)	1.2	2.2	13.0	0.2	XGA (75Hz)	3	28	768	1
XGA (85Hz)	1.0	2.2	10.8	0.5	XGA (85Hz)	3	36	768	1
1152×864 (75Hz)	1.2	2.4	10.7	0.6	1152×864 (75Hz)	3	32	864	1
1280×960 (60Hz)	1.0	2.9	11.9	0.9	1280×960 (60Hz)	3	36	960	1
1280×1024 (60Hz)	1.0	2.3	11.9	0.4	1280×1024 (60Hz)	3	38	1024	1
1280×1024 (75Hz)	1.1	1.8	9.5	0.2	1280×1024 (75Hz)	3	37	1024	2
1280×1024 (85Hz)	1.0	1.4	8.1	0.4	1280×1024 (85Hz)	3	44	1024	1
1600×1200 (60Hz)	1.2	1.9	9.9	0.4	1600×1200 (60Hz)	3	46	1200	1

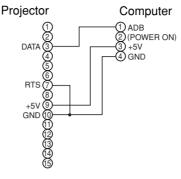
CONNECTION TO THE MOUSE CONTROL

ADB Mouse

CONTROL Terminal

D-sub 15-pin shrink jack





Mouse jack Mini DIN 4-pin

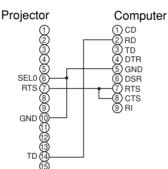


Serial Mouse

CONTROL Terminal

D-sub 15-pin shrink jack



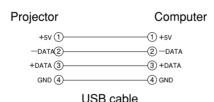


Mouse jack D-sub 9-pin



USB Mouse





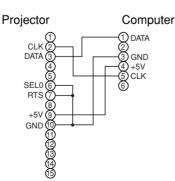


PS/2 Mouse

CONTROL Terminal

D-sub 15-pin shrink jack



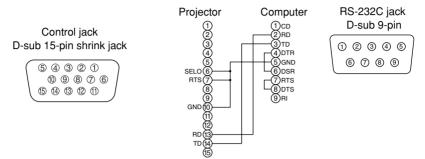


Mouse jack Mini DIN 6-pin



RS-232C COMMUNICATION

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



RS-232C adapter

Communications setting

19200bps, 8N1

1 Protocol

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

2 Header

BE + EF + 03 + 06 + 00 + CRC_low + CRC_high CRC_low: Lower byte of CRC flag for command data. CRC_high: Upper byte of CRC flag for command data.

3 Command data

Command data chart

byte_0	byte_1	byte_2	byte_3	byte_4 byte_5		
Act	ion	Ту	ре	Setting	g 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.

RS-232C COMMUNICATION (continued)

Requesting projector status (Get command)

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

Changing the projector settings (Set command)

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

Using the projector default settings (Reset Command)

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

Increasing the projector setting value (Increment command)

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

Decreasing the projector setting value (Decrement command)

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

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

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

When data sent by the projector cannot be practice

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

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

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

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

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

Command data chart

Names		peration type		leader				Comma	nd data
Names		peration type	ŗ	leauei		CRC	Action	Туре	Setting code
		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
Diami, Oalar	Set	Black	BE EF	03	06 00	9B D0	01 00	00 30	06 00
Blank Color		MyScreen	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		ORIGNAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00
		Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00
		Normal	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
	Set	H Inverse	BE EF	03	06 00	57 D3	01 00	01 30	01 00
Mirror	Set	V Inverse	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		H&V Inverse	BE EF	03	06 00	37 D2	01 00	01 30	03 00
		Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
	Set	Normal	BE EF	03	06 00	83 D2	01 00	02 30	00 00
Freeze	Set	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
		ORIGNAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
Startup	Set	OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
Startup		MyScreen	BE EF	03	06 00	CB CB	01 00	04 30	20 00
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00
	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
Language		Norsk	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
Language		Nederlands	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		Português	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00
		Get	BE EF	03	06 00	7C D2	02 00	07 30	00 00
Magnify		Increment	BE EF	03	06 00	1A D2	04 00	07 30	00 00
		Decrement	BE EF	03	06 00	CB D3	05 00	07 30	00 00
		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00
Auto off		Increment	BE EF	03	06 00	6E 86	04 00	10 31	00 00
		Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00
		Door Gingill	DC C1		00 00	Di 0/	00 00	10 01	00 00
Brightness Reset		Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00
Contrast Reset		Execute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00
V.Position Reset		Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00

Command data chart (continued)

Names	0				ll				Comman		d data
Names	Оре	eration type		-	leader			CRC	Action	Туре	Setting code
H.Position Reset		Execute	BE	EF	03	06 0	00	IC D3	06 00	03 70	00 00
H.Size Reset	Execute		BE	EF	03	06 0	00	68 D2	06 00	04 70	00 00
Color Balance R Reset		Execute	BE	EF	03	06 0	00	94 D3	06 00	05 70	00 00
Color Balance B Reset		Execute	BE	EF	03	06 0	00	D0 D3	06 00	06 70	00 00
Sharpness Reset		Execute	BE	EF	03	06 0	00	C4 D0	06 00	09 70	00 00
Color Reset		Execute	BE	EF	03	06 0	00	80 D0	06 00	0A 70	00 00
Tint Reset		Execute	BE	EF	03	06 0	00	7C D1	06 00	0B 70	00 00
Keystone_V Reset		Execute	BE	EF	03	06 0	00	08 D0	06 00	0C 70	00 00
Keystone_H Reset		Execute	BE	EF	03	06 0	00	98 D8	06 00	20 70	00 00
Auto Adjust		Execute	BE	EF	03	06 0	00	91 D0	06 00	0A 20	00 00
Auto Keystone_V		Execute	BE	EF	03	06 0	00	E5 D1	06 00	0D 20	00 00
Lamp Time Reset		Execute	BE		03	06 0		58 DC	06 00	30 70	00 00
Filter Time Reset		Execute	BE		03		00	98 C6	06 00	40 70	00 00
	Set	off	BE		03		00	FB D8	01 00	20 30	00 00
Blank on/off		on	BE		03	06 0		6B D9	01 00	20 30	01 00
		Get	BE	EF	03	06 0		C8 D8	02 00	20 30	00 00
			BE	EF	03	06 0	00	D9 D8	02 00	20 60	00 00
					of Retu			00.00	00	00	
Error Status	Get		00 00 01 00 02 00 (Normal) (Cover-error) (Fan-ei				(Fan-erro	03 or) (La	00 mp-error)		
			04 0	•	05 0		,	,	, ,	7 00	00.00
				o-error)		ow-error	r)	06 00 (Lamp-Time	-	Cool-error)	08 00 (Filter-Error)
		OFF	BE		03	06 0		2A D3	01 00	00 60	00 00
Power	Set	ON	BE		03		00	BA D2	01 00	00 60	01 00
1 OWC		Get	BE		03		00	19 D3	02 00	00 60	00 00
		RGB	BE		03	06 0		FE D2	01 00	00 20	00 00
		BNC (RGB)	BE			06 0		3E D0			00 00
		Video	BE		03		00	6E D3	01 00	00 20	04 00
	Set	S-Video	BE		03		00	9E D3	01 00	00 20	02 00
Input Source	061	Component	BE	EF	03		00	AE D1	01 00	00 20	05 00
		DVI	BE		03		00	0E D2	01 00	00 20	03 00
		BNC (Component)		EF	03		00	5E D1	01 00	00 20	06 00
		Get	BE		03	06 0		CD D2	02 00	00 20	00 00
\/o		Get	BE		03		00	31 D3	02 00	01 20	00 00
Volume		ncrement	BE		03	06 0		57 D3	04 00	01 20	00 00
	٦	ecrement	BE BE		03	06 0		86 D2	05 00 01 00	01 20	00 00
Mute	Set	Normal Mute	BE		03	06 0	00	46 D3 D6 D2	01 00	02 20	00 00
iviule		Get	BE		03		00	75 D3	02 00	02 20	00 00
		Get	BE		03		00	89 D2	02 00	02 20	00 00
Brightness	1.		BE		03				04 00	03 20	00 00
Brightness	Increment		BE		03	06 0		SE D3	05 00	03 20	00 00
	Decrement		BE		03	06 0		FD D3	02 00	03 20	00 00
Contrast	Get Increment			EF	03	06 0		9B D3	04 00	04 20	00 00
Jonitasi		ecrement	BE		03	06 0		4A D2	05 00	04 20	00 00
	 	Get	BE		03	06 0		01 D2	02 00	05 20	00 00
Color Balance R	l,	ncrement	BE		03	06 0		67 D2	04 00	05 20	00 00
Oolor Dalarioe II				EF	03	06 0		B6 D3	05 00	05 20	00 00
	Decrement				UU	UU L	, (טט טט	00 00	1 00 20	00 00

Names	05.6	votion tune		loodor			Command data			
, , , ,				Header		CRC	Action	Туре	Setting code	
	Get		BE EF	03	06 00	45 D2	02 00	06 20	00 00	
Color Balance B		ncrement	BE EF	03	06 00	23 D2	04 00	06 20	00 00	
	D	ecrement	BE EF	03	06 00	F2 D3	05 00	06 20	00 00	
		Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00	
Keystone_V		ncrement	BE EF	03	06 00	DF D3	04 00	07 20	00 00	
	D	ecrement	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
		Get	BE EF	03	06 00	E9 D0	02 00	0B 20	00 00	
Keystone_H		ncrement	BE EF	03	06 00	8F D0	04 00	0B 20	00 00	
	D	ecrement	BE EF	03	06 00	5E D1	05 00	0B 20	00 00	
	0-4	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00	
Aspect	Set	16:9	BE EF	03	06 00	0E D1	01 00	08 20 08 20	01 00 02 00	
		Small	BE EF		06 00	FE D1 AD D0				
	-	Get		03	06 00				00 00	
Picture	Cot	Default	BE EF	03	06 00	62 D1	01 00	09 20	00 00	
Position at	Set	Bottom	BE EF	03	06 00 06 00	F2 D0 02 D0	01 00	09 20 09 20	01 00 02 00	
16 : 9 or Small		Top Get	BE EF	03	06 00 06 00	51 D1	01 00	09 20 09 20	02 00 00 00	
V Danitian	ļ .	Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00	
V.Position		ncrement ecrement	BE EF	03	06 00 06 00	6B 83 BA 82	04 00 05 00	00 21	00 00	
	D		BE EF	03						
H.Position	L	Get	BE EF		06 00	F1 82 97 82	02 00	01 21		
H.Position	Increment Decrement		BE EF	03	06 00 06 00	46 83	04 00 05 00	01 21	00 00	
	Get			03						
H.Size	Increment Decrement Get Increment		BE EF	03	06 00	B5 82 D3 82	02 00	02 21	00 00	
n.size			BE EF	03	06 00	02 83	05 00	02 21	00 00	
			BE EF							
LI Phana			BE EF	03	06 00	49 83 2F 83	02 00	03 21	00 00	
H.Phase			BE EF	03	06 00	FE 82	05 00	03 21	00 00	
	Decrement		BE EF	03	06 00	F1 72	02 00	01 22	00 00	
Sharpness	Get Increment		BE EF	03	06 00	97 72	04 00	01 22	00 00	
Onarphess	Decrement		BE EF	03	06 00	46 73	05 00	01 22	00 00	
			BE EF	03	06 00	B5 72	02 00	02 22	00 00	
Color	Get Increment Decrement		BE EF	03	06 00	D3 72	04 00	02 22	00 00	
COIOI			BE EF	03	06 00	02 73	05 00	02 22	00 00	
			BE EF				02 00		00 00	
Tint	1.	Get	BE EF	03	06 00 06 00	49 73 2F 73	02 00	03 22	00 00	
TITL		ecrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00	
	+ 0		BE EF							
BNC	Set	RGB	BE EF	03	06 00	C2 D7 52 D6	01 00	11 20 11 20	00 00 01 00	
DINO	-	Get Component	BE EF	03	06 00	F1 D7	02 00	11 20	00 00	
	1								00 00 0A 00	
		Auto	BE EF	03	06 00	9E 75	01 00	00 22		
		NTSC	BE EF	03	06 00	FE 71	01 00	00 22	04 00	
	0.4	PAL	BE EF	03	06 00	6E 70	01 00	00 22	05 00	
Video Format	Set	SECAM NTCC 4 42	BE EF	03	06 00	6E 75	01 00	00 22	09 00	
		NTSC 4.43	BE EF	03	06 00	5E 72	01 00	00 22	02 00	
		M-PAL	BE EF	03	06 00	FE 74		00 22	08 00 07 00	
	<u> </u>	N-PAL Got	BE EF	03	06 00	0E 71 0D 73	01 00	00 22		
	1	Get 1080i	BE EF		06 00 06 00	F2 73		00 22	00 00	
UDT//	Set	1080i 1035i	BE EF	03	06 00	62 72	01 00	05 22	00 00	
HDTV	-			03					00 00	
		Get	BE EF	03	06 00	C1 73	02 00	05 22	00 00	

Command data chart (continued)

Syncon G Set Off SE EF O3 O6 O0 CB DO O1 O0 O8 O3 O1 O0 O0 O0 O0 O0 O0 O0	Namas	00	oration type	Header				Command data			
Sync on G Set	inames	Names Operation type							Туре	Setting code	
Sync on G Get		۵.,	off	BE EF	03	06 00	CB D0	01 00	08 30	01 00	
PinP Size	Sync on G	Set	on	BE EF	03	06 00	5B D1	01 00	08 30	00 00	
PinP Size			Get	BE EF	03	06 00	68 D1	02 00	08 30	00 00	
PinP Size			off	BE EF	03	06 00	FE 22	01 00	00 23	00 00	
Small SE EF 03 06 00 9E 23 01 00 00 23 02 00	Din D Cizo	Set	Large	BE EF	03	06 00	6E 23	01 00	00 23	01 00	
PinP Position	FIIIF Size		Small	BE EF	03	06 00	9E 23	01 00	00 23	02 00	
PinP Position PinP Positi			Get	BE EF	03	06 00	CD 22	02 00	00 23	00 00	
PinP Position			Upper left	BE EF	03	06 00	02 23	01 00	01 23	00 00	
PinP Position Bottom left BE EF 03 06 00 62 22 01 00 01 23 02 00 00 00 01 23 03 00 00 00 01 23 03 00 00 00 01 23 03 00 00 00 01 23 03 00 00 00 00 01 23 00 00 00 00 00 00 00		Sot	Upper right	BE EF	03	06 00	92 22	01 00	01 23	01 00	
PinP Audio ch	PinP Position	061	Bottom left	BE EF	03	06 00	62 22	01 00	01 23	02 00	
PinP Audio ch			Bottom right	BE EF	03	06 00	F2 23	01 00	01 23	03 00	
PinP Audio ch			Get	BE EF	03	06 00	31 23	02 00	01 23	00 00	
PinP Audio ch		Sot	RGB	BE EF	03	06 00	BA 22	01 00	03 23	00 00	
PinP Input Pi	PinP Audio ch	Jei	Video	BE EF	03	06 00	2A 23	01 00	03 23	01 00	
PinP Input			Get	BE EF	03	06 00	89 22	02 00	03 23	00 00	
S-Video BE EF 03 06 00 26 22 01 00 02 23 02 00 00 00 00		Sot	Video	BE EF	03	06 00	D6 22	01 00	02 23	01 00	
WHISPER Set NORMAL WHISPER BE EF 03 06 00 3B 23 01 00 03 33 00 00 Get BE EF 03 06 00 AB 22 01 00 03 33 00 00 Get BE EF 03 06 00 08 23 02 00 03 03 00 00 Get BE EF 03 06 00 57 F1 01 00 A1 30 01 00 DYNAMIC BE EF 03 06 00 74 F1 01 00 A1 30 00 00 Get BE EF 03 06 00 C2 71 01 00 09 22 02 00 MyScreen Scan Set Middle BE EF 03 06 00 32 71 01 00 09 22 </td <td>PinP Input</td> <td>Set</td> <td>S-Video</td> <td>BE EF</td> <td>03</td> <td>06 00</td> <td>26 22</td> <td>01 00</td> <td>02 23</td> <td>02 00</td>	PinP Input	Set	S-Video	BE EF	03	06 00	26 22	01 00	02 23	02 00	
WHISPER Set Get WHISPER BE EF 03 06 00 AB 22 01 00 03 33 01 00 Get BE EF 03 06 00 08 23 02 00 00 33 00 00 GAMMA BE EF 03 06 00 C7 F0 01 00 A1 30 00 00 Over Scan Get BE EF 03 06 00 A7 F1 01 00 A1 30 02 00 Over Scan Set Cine BE EF 03 06 00 A7 F1 01 00 A1 30 00 00 A2 70 01 00 09 22 02 00 00 A3 06 00 A2 70 01 00 09 22 00 00 00 00 00 <t< td=""><td></td><td></td><td>Get</td><td>BE EF</td><td>03</td><td>06 00</td><td>75 23</td><td>02 00</td><td>02 23</td><td>00 00</td></t<>			Get	BE EF	03	06 00	75 23	02 00	02 23	00 00	
WHISPER BE EF 03 06 00 AB 22 01 00 03 33 01 00 GAMMA Set BE EF 03 06 00 08 23 02 00		Cat	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00	
GAMMA Set NORMAL CINEMA BE EF 03 06 00 C7 F0 01 00 A1 30 00 00 CINEMA BE EF 03 06 00 57 F1 01 00 A1 30 01 00 Get BE EF 03 06 00 A7 F1 01 00 A1 30 02 00 Get BE EF 03 06 00 C2 71 01 00 09 22 02 00 Middle BE EF 03 06 00 32 71 01 00 09 22 00 00 Get Middle BE EF 03 06 00 91 70 02 00 09 22 00 00 MyScreen Size Full BE EF 03 06 00 43 D	WHISPER	Set	WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00	
GAMMA Set DYNAMIC DYNAMIC DYNAMIC BE EF 03 06 00 57 F1 01 00 0 A1 30 02 00 00 00 00 00 00 00 00 00 00 00 00			Get	BE EF	03	06 00	08 23	02 00	00 33	00 00	
GAMMA DYNAMIC BE EF 03 06 00 A7 F1 01 00 A1 30 02 00 Get BE EF 03 06 00 F4 F0 02 00 A1 30 00 00 Over Scan Set Middle BE EF 03 06 00 C2 71 01 00 09 22 02 00 Small BE EF 03 06 00 A2 70 01 00 09 22 00 00 MyScreen Size Full BE EF 03 06 00 91 70 02 00 09 22 00 00 MyScreen Size Full BE EF 03 06 00 43 D6 01 00 12 30 01 00 02 00 12 30 01 00 00 00			NORMAL	BE EF	03	06 00	C7 F0	01 00	A1 30	00 00	
DYNAMIC BE EF 03 06 00 A7 F1 01 00 A1 30 02 00 Get BE EF 03 06 00 F4 F0 02 00 A1 30 00 00 Over Scan Set Middle BE EF 03 06 00 C2 71 01 00 09 22 02 00 MyScreen Size Set Middle BE EF 03 06 00 A2 70 01 00 09 22 00 00 MyScreen Size Full BE EF 03 06 00 A3 D6 01 00 12 30 00 00 MyScreen Size Full BE EF 03 06 00 A3 D6 01 00 12 30 00 00 MyScreen Lock Get BE EF 03 06 00 D3 D7 01 00 12 30 00 00 MyScreen Lock Get BE EF 03 06 00 D3 D7 01 00 12 30 00 00 MyScreen Lock Get BE EF 03 06 00 AB EE 01 00 C0	CAMMA	Set	CINEMA	BE EF	03	06 00	57 F1	01 00	A1 30	01 00	
Over Scan Set Large Middle BE EF 03 06 00 032 71 01 00 09 22 01 00 00 00 00 00 00 00 00 00 00 00 00	GAIVIIVIA		DYNAMIC	BE EF	03	06 00	A7 F1	01 00	A1 30	02 00	
Over Scan Set Middle Small BE EF 03 06 00 032 71 01 00 09 22 00 00 One of the standard of the stan			Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	
Over Scan Small BE EF 03 06 00 A2 70 01 00 09 22 00 00 Get BE EF 03 06 00 91 70 02 00 09 22 00 00 MyScreen Size Full BE EF 03 06 00 43 D6 01 00 12 30 00 00 MyScreen Size Set Full BE EF 03 06 00 D3 D7 01 00 12 30 01 00 MyScreen Lock BE EF 03 06 00 70 D6 02 00 12 30 00 00 MyScreen Lock Set off BE EF 03 06 00 3B EF 01 00 C0 30 00 00 Lamp Time Get BE EF 03 06 00 AB EE 01 00 C0 30 00 00 Filter Time Get BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 IR Remote Front Set off BE EF 03 06 00 FF 32 01 00 00 26 01 00			Large	BE EF	03	06 00	C2 71	01 00	09 22	02 00	
Small BE EF 03 06 00 A2 70 01 00 09 22 00 00	Over Scan	Set	Middle	BE EF	03	06 00	32 71	01 00	09 22	01 00	
MyScreen Size Full X1 BE EF O3 06 00 0 00 00 00 00 00 00 00 00 00 00 0	Over ocan		Small	BE EF	03	06 00	A2 70	01 00	09 22	00 00	
MyScreen Size X1 BE EF 03 06 00 D3 D7 01 00 12 30 01 00 Get BE EF 03 06 00 70 D6 02 00 12 30 00 00 MyScreen Lock Off BE EF 03 06 00 3B EF 01 00 C0 30 00 00 Get BE EF 03 06 00 08 EF 02 00 C0 30 00 00 Lamp Time Get BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 Filter Time Get BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 IR Remote Front Set Off BE EF 03 06 00 FF 32 01 00 00 26 00 00 IR Remote Rear Set Off BE EF 03 06 00 FF 32 01 00 00 26 00 00 IR Remote Rear S			Get	BE EF	03	06 00	91 70	02 00	09 22	00 00	
MyScreen Size X1 BE EF 03 06 00 D3 D7 01 00 12 30 01 00 MyScreen Lock Set Off BE EF 03 06 00 3B EF 01 00 C0 30 00 00 MyScreen Lock Off BE EF 03 06 00 3B EF 01 00 C0 30 01 00 Lamp Time Get BE EF 03 06 00 08 EF 02 00 C0 30 00 00 IR Remote Front Set off BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 IR Remote Front Set off BE EF 03 06 00 FF 32 01 00 02 00 00 IR Remote Rear <td rowspa<="" td=""><td></td><td>Set</td><td>Full</td><td>BE EF</td><td>03</td><td>06 00</td><td>43 D6</td><td>01 00</td><td>12 30</td><td>00 00</td></td>	<td></td> <td>Set</td> <td>Full</td> <td>BE EF</td> <td>03</td> <td>06 00</td> <td>43 D6</td> <td>01 00</td> <td>12 30</td> <td>00 00</td>		Set	Full	BE EF	03	06 00	43 D6	01 00	12 30	00 00
MyScreen Lock Set off BE EF 03 06 00 3B EF 01 00 C0 30 00 00 Get BE EF 03 06 00 AB EE 01 00 C0 30 01 00 Lamp Time Get BE EF 03 06 00 C2 FF 02 00 C0 30 00 00 Filter Time Get BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 IR Remote Front Set off BE EF 03 06 00 FF 32 01 00 00 26 00 00 Get BE EF 03 06 00 FF 32 01 00 00 26 00 00 Get BE EF 03 06 00 FF 32 01 00 00 26 01 00 Get BE EF 03 06 00 FF 32 01 00 00 26 01 00 Get BE EF 03 06 00 02 32 02 00 00 26 00 00 IR Remote Rear Set off BE EF 03 06 00 33 33 01 00 01 26 00 00<	MyScreen Size	Jei	X1	BE EF	03	06 00	D3 D7	01 00	12 30	01 00	
MyScreen Lock Set on BE EF 03 06 00 AB EE 01 00 CO 30 01 00 Lamp Time Get BE EF 03 06 00 08 EF 02 00 CO 30 00 00 Filter Time Get BE EF 03 06 00 C2 FF 02 00 A0 10 00 00 IR Remote Front Set off BE EF 03 06 00 FF 32 01 00 00 26 00 00 Get BE EF 03 06 00 FF 32 01 00 00 26 01 00 Get BE EF 03 06 00 FF 32 01 00 00 26 01 00 Get BE EF 03 06 00 CC 32 02 00 00 26 01 00 IR Remote Rear Set off BE EF 03 06 00 03 33 01 00 01 26 00 00 IR Remote Top Set off BE EF 03 06 00 47 33 01 00 02 26 00 00 </td <td></td> <td></td> <td>Get</td> <td>BE EF</td> <td>03</td> <td>06 00</td> <td>70 D6</td> <td>02 00</td> <td>12 30</td> <td>00 00</td>			Get	BE EF	03	06 00	70 D6	02 00	12 30	00 00	
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Filter Time			Get	BE EF	03	06 00	08 EF	02 00		00 00	
R Remote Front Set Off BE EF 03 06 00 FF 32 01 00 00 26 00 00	Lamp Time		Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
R Remote Front Set On BE EF O3 O6 O0 GF 33 O1 O0 O0 26 O1 O0	Filter Time		Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
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IR Remote Top Set on BE EF 03 06 00 D7 32 01 00 02 26 01 00			Get	BE EF	03	06 00	30 33	02 00	01 26	00 00	
IR Remote Top on BE EF 03 06 00 D7 32 01 00 02 26 01 00		Sot	off	BE EF	03	06 00	47 33	01 00	02 26	00 00	
Get BE EF 03 06 00 74 33 02 00 02 26 00 00	IR Remote Top	L	on	BE EF	03	06 00	D7 32	01 00	02 26	01 00	
			Get	BE EF	03	06 00	74 33	02 00	02 26	00 00	

REGULATORY NOTICES

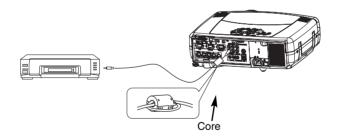
FCC Statement Warning

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

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

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

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



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

For the Customers in CANADA

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

Pour les utilisateurs au Canada

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

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