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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.

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For "TECHNICAL" see the end of this manual.



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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 \uparrow/\downarrow to select a menu name, then press the \rightarrow or ENTER button.

Item selection : Use the lever switch \uparrow/\downarrow to select an item, then press the \rightarrow or ENTER button.

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

Execution of settings and/or adjustments: Perform the operation using the lever switch \uparrow/\downarrow .

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

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

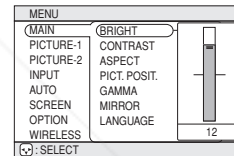
(Functions that are executed at the same time as a selection, including H PHASE, LANGUAGE selection, and ADJUST, will not be reset.)

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.



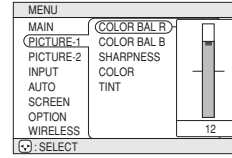
Example : MAIN Menu (BRIGHT)

MAIN Menu

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

PICTURE-1 Menu

With the PICTURE-1 menu, the five items shown in the Table below can be performed.
Perform each operation in accordance with the instructions in the Table.



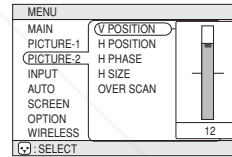
Example : PICTURE1 Menu (COLOR BAL R)

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 Soft
COLOR	Adjust COLOR (for VIDEO/S-VIDEO/COMPONENT VIDEO): Dark Light
TINT	Adjust Tint (for VIDEO/S-VIDEO): Green Red

PICTURE-2 Menu

With the PICTURE-2 menu, the five items shown in the Table below can be performed.
Perform each operation in accordance with the instructions in the Table.



Example : PICTURE2 Menu (V POSITION)

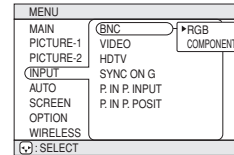
PICTURE-2 Menu

Item	Description
V POSITION	Adjust Vertical Position (for RGB): Up Down
H POSITION	Adjust Horizontal Position (for RGB): Left Right
H PHASE	Adjust Horizontal Phase (for RGB/COMPONENT VIDEO): Right Left • Adjust to eliminate flicker.
H SIZE	Adjust Horizontal Size (for RGB): Large Small • If the horizontal size adjustment is excessive, the image may not be displayed correctly. In such a case, initialize H SIZE with the RESET button.
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.



Example : INPUT Menu (BNC)

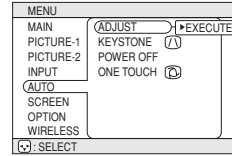
INPUT Menu

Item	Description
BNC	<p>BNC Pin (R/C_R/P_R, G/Y, B/C_B/P_B, H, V) function selection: BNC (RGB) <input type="checkbox"/> ⇔ <input type="checkbox"/> BNC (COMPONENT)</p> <p><input type="checkbox"/> (R) <input type="checkbox"/> (G) <input type="checkbox"/> (B) <input type="checkbox"/> (H) <input type="checkbox"/> (V) <input type="checkbox"/> (C_R/P_R) <input type="checkbox"/> (Y) <input type="checkbox"/> (C_B/P_B) <input type="checkbox"/> (-) <input type="checkbox"/> (-)</p> <p>(Pins for RGB) (Pins for COMPONENT)</p> <p>Selecting BNC (RGB) allows the 5 RGB2 pins (R/C_R/P_R, G/Y, B/C_B/P_B, H, V) to be used as RGB signal BNC input as-is.</p> <p>Selecting BNC (COMPONENT) allows the 3 leftmost RGB2 pins (R/C_R/P_R, G/Y, B/C_B/P_B) to be used as the COMPONENT VIDEO input C_R/P_R, Y, and C_B/P_B pins.</p>
VIDEO	<p>Select Mode of Signal Type (for VIDEO/S-VIDEO): AUTO <input type="checkbox"/> ⇔ <input type="checkbox"/> NTSC <input type="checkbox"/> ⇔ <input type="checkbox"/> PAL <input type="checkbox"/> ⇔ <input type="checkbox"/> SECAM <input type="checkbox"/> ⇔ <input type="checkbox"/> NTSC4.43 <input type="checkbox"/> ⇔ <input type="checkbox"/> M-PAL <input type="checkbox"/> ⇔ <input type="checkbox"/> N-PAL</p> <p>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.</p> <p>Use this function if the image becomes unstable with VIDEO/S-VIDEO. (e.g. The image becomes irregular, or lacks color.)</p> <ul style="list-style-type: none"> • 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	<p>Select HDTV Signal Mode: 1080i <input type="checkbox"/> ⇔ <input type="checkbox"/> 1035i</p> <ul style="list-style-type: none"> • If the selected HDTV mode is incompatible with the input signal, the picture may be distorted.
SYNC ON G	<p>On/Off SYNC ON G Mode: TURN ON <input type="checkbox"/> ⇔ <input type="checkbox"/> TURN OFF</p> <p>Selecting TURN ON turns on the SYNC ON G mode. The SYNC ON G mode allows reception of SYNC on G.</p> <ul style="list-style-type: none"> • 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>P. IN P. screen (*) input signal selection: VIDEO <input type="checkbox"/> ⇔ <input type="checkbox"/> S-VIDEO</p> <p>Selects the signal displayed on the P. IN P. subscreen.</p>
P. IN P. POSIT	<p>P. IN P. screen (*) display position selection:</p> <p><input type="checkbox"/> <input type="checkbox"/> ⇔ <input type="checkbox"/> <input type="checkbox"/> ⇔ <input type="checkbox"/> <input type="checkbox"/> ⇔ <input type="checkbox"/> <input type="checkbox"/></p> <p>Selects the position at which the P. IN P. subscreen is displayed.</p>

(*) 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)

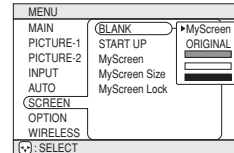
AUTO Menu

Item	Description
ADJUST	<p>Auto Adjust (for RGB): Automatically adjusts H POSITION, V POSITION, H PHASE, and H SIZE. Use this function with the maximum window size.</p> <p>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.</p> <ul style="list-style-type: none"> 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 (A)	<p>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.</p> <ul style="list-style-type: none"> 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	<p>Adjust POWER OFF Time: Long (MAX. 99 min.) [] ⇄ [] Short (Min. 1 min.) [] ⇄ [] (DISABLE: 0 min.)</p> <p>If the time set here passes without valid signal input (there is no signal input, or signal input is out of specifications), the standby mode is set (see "TURNING ON THE POWER" Vol.1 15). This function is inactive when DISABLE (0 min.) is selected.</p>
ONE TOUCH (C)	<p>Enabling/disabling the KEystone (A) function using the ONE TOUCH (C) button: TURN ON [] ⇄ [] TURN OFF</p> <p>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 (A) (see above in this table) simultaneously when pressed. KEystone will be executed if TURN ON is selected.</p>

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.



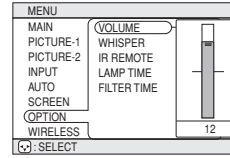
Example : SCREEN Menu (BLANK)

SCREEN Menu

Item	Description
BLANK	<p>Selection of BLANK Screen: MyScreen ORIGINAL </p> <p>The BLANK Screen may be voluntarily selected. The BLANK Screen is displayed when the screen has been erased (i.e., made to vanish) by manipulating the BLANK button (please refer to the "Temporarily Blanking the Screen" section of the separate booklet, Vol. 1 (Basic)).</p> <p>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.</p> <p>ORIGINAL: Existing standard screens. Please make confirmation using the actual screen(s).</p> <p>Option screens: Various colored non-patterned (plain) screens displayed within the Menus.</p> <ul style="list-style-type: none"> The MyScreen and the ORIGINAL Screen will each change to a non-patterned (plain) black color screen several minutes after being displayed.
START UP	<p>Selection of START UP Screen: MyScreen ORIGINAL TURN OFF</p> <p>The START UP Screen may be voluntarily selected. The START UP Screen is displayed when no signal has been inputted, or when spec signals are being inputted.</p> <p>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.</p> <p>ORIGINAL: Existing standard screens. Please make confirmation using the actual screen(s).</p> <p>TURN OFF: A non-patterned (plain) blue color screen.</p> <ul style="list-style-type: none"> The MyScreen and ORIGINAL screens will switch to the BLANK screen (see above in this table) a few minutes after being displayed. If the BLANK screen is the MyScreen or ORIGINAL screen, it will turn immediately to a solid black screen.
MyScreen	<p>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.</p> <ol style="list-style-type: none"> 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. When the "Move the capture area as you want." message has been displayed, pressing the ESC (or RESET) button will eliminate the static state of the picture, and operations can be performed again from operation 1. The frame can be moved using the , , , buttons. After designating the screen you want to register, pressing the ENTER button will initiate screen registration. The registration process takes approximately 1 minute to complete. When the registration has been completed, the screen of the registered MyScreen, plus the message, "MyScreen registration is finished," will be displayed for several seconds, after which the operation is terminated.
MyScreen Size	<p>Selection of MyScreen display size: x1 FULL</p>
MyScreen Lock	<p>Invalidation of MyScreen registration function: TURN ON TURN OFF</p> <p>When TURN ON is selected, the MyScreen category (see this Table, above) cannot be executed; in this way, one can prohibit rewrites ("writeovers") of the MyScreen.</p>

OPTION Menu

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



Example : OPTION Menu (VOLUME)

OPTION Menu

Item	Description
VOLUME	Adjust Volume: High ⇌ Low
WHISPER	Select WHISPER Mode: NORMAL ⇌ WHISPER When WHISPER is selected the WHISPER mode is activated. In the WHISPER mode, acoustic noise and screen brightness are reduced.
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. <ul style="list-style-type: none"> 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.
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. <ul style="list-style-type: none"> 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. Before replacing the lamp, carefully read the descriptions headed "THE LAMP".
FILTER TIME	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 <ul style="list-style-type: none"> 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 (7), 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. <ul style="list-style-type: none"> • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C?

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.



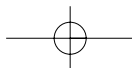
Regarding the Indicator Lamps

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)
Power does not come ON	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.	
	The main power source has been interrupted during operation, such as by a power outage (blackout), etc.	Be sure to press the "O" (power OFF) side of the main power switch, and leave this OFF for approximately 20 minutes. After the unit has sufficiently cooled down, turn ON the power source.	Vol.1-15
No sound or pictures are outputted	The input changeover settings are mismatched.	Select the input signal, and correct the settings.	Vol.1-16
	No signal is being inputted.	Correctly connect the connection cord.	Vol.1-8-12
Pictures are displayed, but no sounds are heard	The electrical wiring to this unit is not correctly connected.	Correctly connect the connection cord.	Vol.1-8-12
	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
	The MUTE mode is the current setting.	Press the MUTE button to release (change) the MUTE mode setting.	Vol.1-18
Sounds are heard, but no pictures are displayed	The electrical wiring to this unit is not correctly connected.	Correctly connect the connection cord.	Vol.1-8-12
	The brightness setting has been set at (or adjusted to) an extremely low level.	Adjust the BRIGHT setting to a brighter level.	Vol.2-2
	The lens cap has not been removed.	Remove the lens cap.	Vol.1-15
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
Pictures appear dark	The brightness setting and/or contrast setting has not been properly adjusted.	Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc.	Vol.2-2
	The WHISPER mode is the current setting.	Change (by releasing) from the WHISPER mode.	Vol.2-7
	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

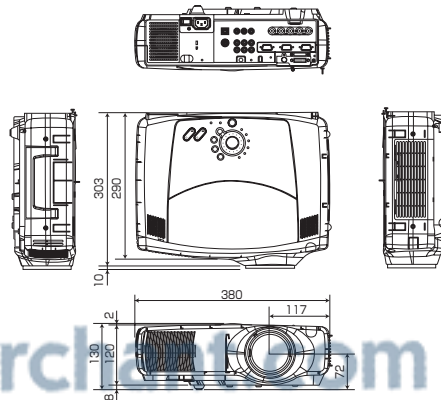
Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

SPECIFICATIONS

NOTE • This specifications are subject to change without notice.

Item	Specification																												
Product name	Liquid crystal projector																												
Liquid crystal panel	Panel size	2.5 cm (0.99 type)																											
	Drive system	TFT active matrix																											
	Pixels	786,432 pixels (1024 horizontal x 768 vertical)																											
Lens	Zoom lens F=1.7 ~ 2.4 f=30.5 ~ 45.8 mm																												
Lamp	275 W UHB																												
Speaker	1.0W+1.0W (Stereo)																												
Power supply	AC100 ~ 120V, 4.7A / AC220 ~ 240V, 2.0A																												
Power consumption	430W																												
Temperature range	0 ~ 35°C (Operating)																												
Size	380 (W) x 120 (H) x 290 (D) mm (Not including protruding parts)																												
Weight (mass)	5.7 kg																												
Ports	<table border="0"> <tr> <td>RGB Input Ports</td> <td>AUDIO Ports</td> </tr> <tr> <td>RGB 1</td> <td>AUDIO IN 1 1</td> </tr> <tr> <td>BNC (when RGB selected)</td> <td>AUDIO IN 2 1</td> </tr> <tr> <td>– (R.G.B.H.V) 1</td> <td>AUDIO IN (R, L) 1</td> </tr> <tr> <td>DVI 1</td> <td>RGB Output Port</td> </tr> <tr> <td>VIDEO Input Ports</td> <td>RGB OUT 1</td> </tr> <tr> <td>VIDEO IN 1</td> <td>AUDIO Output Port</td> </tr> <tr> <td>S-VIDEO IN 1</td> <td>AUDIO OUT 1</td> </tr> <tr> <td>COMPONENT VIDEO</td> <td>CONTROL Ports</td> </tr> <tr> <td>– (Cr/Pr, Cb/Pb, Y) 1</td> <td>CONTROL 1</td> </tr> <tr> <td>BNC</td> <td>USB 1</td> </tr> <tr> <td>(when COMPONENT selected)</td> <td>Other Ports</td> </tr> <tr> <td>– (Cr/Pr, Y, Cb/Pb) 1</td> <td>WIRELESS & NETWORK MODULE 1</td> </tr> <tr> <td></td> <td>REMOTE CONTROL 1</td> </tr> </table>	RGB Input Ports	AUDIO Ports	RGB 1	AUDIO IN 1 1	BNC (when RGB selected)	AUDIO IN 2 1	– (R.G.B.H.V) 1	AUDIO IN (R, L) 1	DVI 1	RGB Output Port	VIDEO Input Ports	RGB OUT 1	VIDEO IN 1	AUDIO Output Port	S-VIDEO IN 1	AUDIO OUT 1	COMPONENT VIDEO	CONTROL Ports	– (Cr/Pr, Cb/Pb, Y) 1	CONTROL 1	BNC	USB 1	(when COMPONENT selected)	Other Ports	– (Cr/Pr, Y, Cb/Pb) 1	WIRELESS & NETWORK MODULE 1		REMOTE CONTROL 1
RGB Input Ports	AUDIO Ports																												
RGB 1	AUDIO IN 1 1																												
BNC (when RGB selected)	AUDIO IN 2 1																												
– (R.G.B.H.V) 1	AUDIO IN (R, L) 1																												
DVI 1	RGB Output Port																												
VIDEO Input Ports	RGB OUT 1																												
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COMPONENT VIDEO	CONTROL Ports																												
– (Cr/Pr, Cb/Pb, Y) 1	CONTROL 1																												
BNC	USB 1																												
(when COMPONENT selected)	Other Ports																												
– (Cr/Pr, Y, Cb/Pb) 1	WIRELESS & NETWORK MODULE 1																												
	REMOTE CONTROL 1																												
Optional Parts	Lamp: DT00531 Air Filter: NJ07081 * For others, consult your dealer.																												

Dimension Diagram



WARRANTY AND AFTER-SERVICE

If a problem occurs with the equipment, first refer to the **8** "WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED" section and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

TECHNICAL

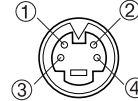
SIGNAL CONNECTOR PIN ASSIGNMENT

RGB IN [1]/[2]
RGB OUT



D-sub 15-pin Shrink

S-VIDEO



Mini Din 4-pin

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

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

signal	Terminal	Specification
RGB signal input	RGB	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
	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 AUDIO IN 2	200mVrms, 57Ω (max. 3.0Vp-p) Stereo mini jack
Video signal input	VIDEO IN	1.0Vp-p, 75Ω terminator, RCA jack
	S-VIDEO IN	Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (NTSC, burst signal), 75Ω terminator Color signal: 0.300Vp-p (PAL/SECAM, burst signal), 75Ω terminator Mini DIN 4-pin jack
	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 Cb/Pb signal: 0.7 Vp-p, 75 Ω terminator RCA jack x 3 (BNC connector x 5)
	BNC (COMPONENT) (Cr/Pr, Cb/Pb, Y)	
	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 functions	CONTROL	D-sub 15pin shrink plug
	USB	USB jack (B type)

EXAMPLE OF COMPUTER SIGNAL

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

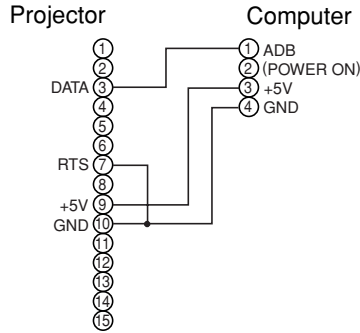


Computer / Signal	Horizontal signal timing (μs)				Computer / Signal	Vertical signal timing (lines)			
	a	b	c	d		a	b	c	d
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	400	1
VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10
Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3
VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	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
1152x864 (75Hz)	1.2	2.4	10.7	0.6	1152x864 (75Hz)	3	32	864	1
1280x960 (60Hz)	1.0	2.9	11.9	0.9	1280x960 (60Hz)	3	36	960	1
1280x1024 (60Hz)	1.0	2.3	11.9	0.4	1280x1024 (60Hz)	3	38	1024	1
1280x1024 (75Hz)	1.1	1.8	9.5	0.2	1280x1024 (75Hz)	3	37	1024	2
1280x1024 (85Hz)	1.0	1.4	8.1	0.4	1280x1024 (85Hz)	3	44	1024	1
1600x1200 (60Hz)	1.2	1.9	9.9	0.4	1600x1200 (60Hz)	3	46	1200	1

CONNECTION TO THE MOUSE CONTROL

ADB Mouse

CONTROL Terminal
D-sub 15-pin shrink jack

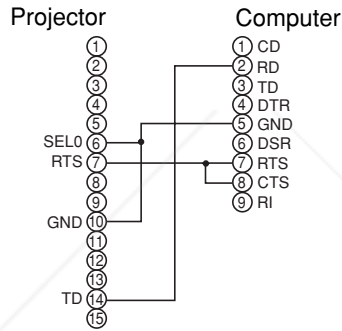
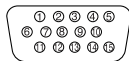


Mouse jack
Mini DIN 4-pin

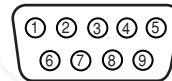


Serial Mouse

CONTROL Terminal
D-sub 15-pin shrink jack

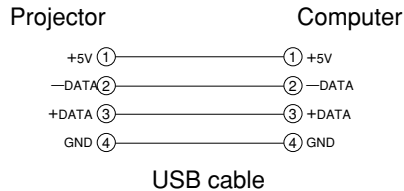
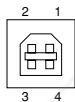


Mouse jack
D-sub 9-pin

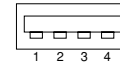


USB Mouse

USB jack
(B type)

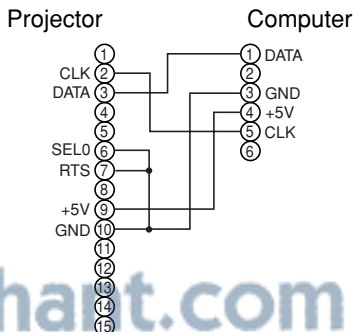
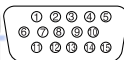


USB jack
(A type)



PS/2 Mouse

CONTROL Terminal
D-sub 15-pin shrink jack

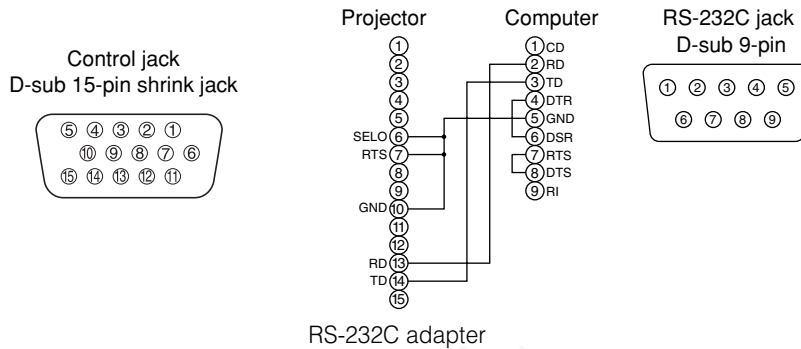


Mouse jack
Mini DIN 6-pin



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.



Communications setting

19200bps, 8N1

1 Protocol

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

2 Header

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

CRC_low : Lower byte of CRC flag for command data.

CRC_high : Upper byte of CRC flag for command data.

3 Command data

Command data chart

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

Action (byte_0 - 1)

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

RS-232C COMMUNICATION (continued)

Requesting projector status (Get command)

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

Changing the projector settings (Set command)

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

Using the projector default settings (Reset Command)

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

Increasing the projector setting value (Increment command)

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

Decreasing the projector setting value (Decrement command)

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

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

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

When data sent by the projector cannot be practice

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

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

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

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

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

Command data chart

Names	Operation type	Header				Command data					
					CRC	Action	Type	Setting code			
Blank Color	Set	Blue	BE	EF	03	06	00	CB D3	01 00	00 30	03 00
		White	BE	EF	03	06	00	6B D0	01 00	00 30	05 00
		Black	BE	EF	03	06	00	9B D0	01 00	00 30	06 00
		MyScreen	BE	EF	03	06	00	FB CA	01 00	00 30	20 00
	ORIGNAL	BE	EF	03	06	00	FB E2	01 00	00 30	40 00	
	Get	BE	EF	03	06	00	08 D3	02 00	00 30	00 00	
Mirror	Set	Normal	BE	EF	03	06	00	C7 D2	01 00	01 30	00 00
		H Inverse	BE	EF	03	06	00	57 D3	01 00	01 30	01 00
		V Inverse	BE	EF	03	06	00	A7 D3	01 00	01 30	02 00
	H&V Inverse	BE	EF	03	06	00	37 D2	01 00	01 30	03 00	
	Get	BE	EF	03	06	00	F4 D2	02 00	01 30	00 00	
Freeze	Set	Normal	BE	EF	03	06	00	83 D2	01 00	02 30	00 00
		Freeze	BE	EF	03	06	00	13 D3	01 00	02 30	01 00
	Get	BE	EF	03	06	00	B0 D2	02 00	02 30	00 00	
Startup	Set	ORIGNAL	BE	EF	03	06	00	0B D2	01 00	04 30	00 00
		OFF	BE	EF	03	06	00	9B D3	01 00	04 30	01 00
	MyScreen	BE	EF	03	06	00	CB CB	01 00	04 30	20 00	
	Get	BE	EF	03	06	00	38 D2	02 00	04 30	00 00	
Language	Set	English	BE	EF	03	06	00	F7 D3	01 00	05 30	00 00
		Français	BE	EF	03	06	00	67 D2	01 00	05 30	01 00
		Deutsch	BE	EF	03	06	00	97 D2	01 00	05 30	02 00
		Español	BE	EF	03	06	00	07 D3	01 00	05 30	03 00
		Italiano	BE	EF	03	06	00	37 D1	01 00	05 30	04 00
		Norsk	BE	EF	03	06	00	A7 D0	01 00	05 30	05 00
		Nederlands	BE	EF	03	06	00	57 D0	01 00	05 30	06 00
		Português	BE	EF	03	06	00	C7 D1	01 00	05 30	07 00
		日本語	BE	EF	03	06	00	37 D4	01 00	05 30	08 00
		中文	BE	EF	03	06	00	A7 D5	01 00	05 30	09 00
	한글	BE	EF	03	06	00	57 D5	01 00	05 30	0A 00	
	Get	BE	EF	03	06	00	C4 D3	02 00	05 30	00 00	
Magnify	Get	BE	EF	03	06	00	7C D2	02 00	07 30	00 00	
	Increment	BE	EF	03	06	00	1A D2	04 00	07 30	00 00	
	Decrement	BE	EF	03	06	00	CB D3	05 00	07 30	00 00	
Auto off	Get	BE	EF	03	06	00	08 86	02 00	10 31	00 00	
	Increment	BE	EF	03	06	00	6E 86	04 00	10 31	00 00	
	Decrement	BE	EF	03	06	00	BF 87	05 00	10 31	00 00	
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	



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Command data chart (continued)

Names	Operation type	Header				Command data		
						CRC	Action	Type
H.Position Reset	Execute	BE EF 03 06 00	IC D3	06 00	03 70	00 00		
H.Size Reset	Execute	BE EF 03 06 00	68 D2	06 00	04 70	00 00		
Color Balance R Reset	Execute	BE EF 03 06 00	94 D3	06 00	05 70	00 00		
Color Balance B Reset	Execute	BE EF 03 06 00	D0 D3	06 00	06 70	00 00		
Sharpness Reset	Execute	BE EF 03 06 00	C4 D0	06 00	09 70	00 00		
Color Reset	Execute	BE EF 03 06 00	80 D0	06 00	0A 70	00 00		
Tint Reset	Execute	BE EF 03 06 00	7C D1	06 00	0B 70	00 00		
Keystone_V Reset	Execute	BE EF 03 06 00	08 D0	06 00	0C 70	00 00		
Keystone_H Reset	Execute	BE EF 03 06 00	98 D8	06 00	20 70	00 00		
Auto Adjust	Execute	BE EF 03 06 00	91 D0	06 00	0A 20	00 00		
Auto Keystone_V	Execute	BE EF 03 06 00	E5 D1	06 00	0D 20	00 00		
Lamp Time Reset	Execute	BE EF 03 06 00	58 DC	06 00	30 70	00 00		
Filter Time Reset	Execute	BE EF 03 06 00	98 C6	06 00	40 70	00 00		
Blank on/off	Set	off	BE EF 03 06 00	FB D8	01 00	20 30	00 00	
		on	BE EF 03 06 00	6B D9	01 00	20 30	01 00	
	Get	BE EF 03 06 00	C8 D8	02 00	20 30	00 00		
Error Status	Get	(Example of Return)						
		BE EF 03 06 00	D9 D8	02 00	20 60	00 00		
Power	Set	OFF	BE EF 03 06 00	2A D3	01 00	00 60	00 00	
		ON	BE EF 03 06 00	BA D2	01 00	00 60	01 00	
	Get	BE EF 03 06 00	19 D3	02 00	00 60	00 00		
Input Source	Set	RGB	BE EF 03 06 00	FE D2	01 00	00 20	00 00	
		BNC (RGB)	BE EF 03 06 00	3E D0	01 00	00 20	04 00	
		Video	BE EF 03 06 00	6E D3	01 00	00 20	01 00	
		S-Video	BE EF 03 06 00	9E D3	01 00	00 20	02 00	
		Component	BE EF 03 06 00	AE D1	01 00	00 20	05 00	
		DVI	BE EF 03 06 00	0E D2	01 00	00 20	03 00	
	Get	BE EF 03 06 00	5E D1	01 00	00 20	06 00		
Volume	Get	BE EF 03 06 00	31 D3	02 00	01 20	00 00		
		Increment	BE EF 03 06 00	57 D3	04 00	01 20	00 00	
		Decrement	BE EF 03 06 00	86 D2	05 00	01 20	00 00	
Mute	Set	Normal	BE EF 03 06 00	46 D3	01 00	02 20	00 00	
		Mute	BE EF 03 06 00	D6 D2	01 00	02 20	01 00	
Brightness	Get	BE EF 03 06 00	75 D3	02 00	02 20	00 00		
		Increment	BE EF 03 06 00	89 D2	02 00	03 20	00 00	
		Decrement	BE EF 03 06 00	EF D2	04 00	03 20	00 00	
Contrast	Get	BE EF 03 06 00	3E D3	05 00	03 20	00 00		
		Increment	BE EF 03 06 00	FD D3	02 00	04 20	00 00	
		Decrement	BE EF 03 06 00	9B D3	04 00	04 20	00 00	
Color Balance R	Get	BE EF 03 06 00	4A D2	05 00	04 20	00 00		
		Increment	BE EF 03 06 00	01 D2	02 00	05 20	00 00	
		Decrement	BE EF 03 06 00	67 D2	04 00	05 20	00 00	
Color Balance B	Get	BE EF 03 06 00	B6 D3	05 00	05 20	00 00		
		Increment	BE EF 03 06 00	01 D2	02 00	05 20	00 00	
Color Balance G	Get	BE EF 03 06 00	01 D2	02 00	05 20	00 00		
		Decrement	BE EF 03 06 00	01 D2	02 00	05 20	00 00	



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Names	Operation type	Header				Command data			
					CRC	Action	Type	Setting code	
Color Balance B	Get	BE	EF	03	06 00	45 D2	02 00	06 20	00 00
	Increment	BE	EF	03	06 00	23 D2	04 00	06 20	00 00
	Decrement	BE	EF	03	06 00	F2 D3	05 00	06 20	00 00
Keystone_V	Get	BE	EF	03	06 00	B9 D3	02 00	07 20	00 00
	Increment	BE	EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement	BE	EF	03	06 00	0E D2	05 00	07 20	00 00
Keystone_H	Get	BE	EF	03	06 00	E9 D0	02 00	0B 20	00 00
	Increment	BE	EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement	BE	EF	03	06 00	5E D1	05 00	0B 20	00 00
Aspect	Set	4:3	BE	EF	03 06 00	9E D0	01 00	08 20	00 00
		16:9	BE	EF	03 06 00	0E D1	01 00	08 20	01 00
		Small	BE	EF	03 06 00	FE D1	01 00	08 20	02 00
	Get	BE	EF	03 06 00	AD D0	02 00	08 20	00 00	
Picture Position at 16 : 9 or Small	Set	Default	BE	EF	03 06 00	62 D1	01 00	09 20	00 00
		Bottom	BE	EF	03 06 00	F2 D0	01 00	09 20	01 00
		Top	BE	EF	03 06 00	02 D0	01 00	09 20	02 00
	Get	BE	EF	03 06 00	51 D1	02 00	09 20	00 00	
V.Position	Get	BE	EF	03	06 00	0D 83	02 00	00 21	00 00
	Increment	BE	EF	03	06 00	6B 83	04 00	00 21	00 00
	Decrement	BE	EF	03	06 00	BA 82	05 00	00 21	00 00
H.Position	Get	BE	EF	03	06 00	F1 82	02 00	01 21	00 00
	Increment	BE	EF	03	06 00	97 82	04 00	01 21	00 00
	Decrement	BE	EF	03	06 00	46 83	05 00	01 21	00 00
H.Size	Get	BE	EF	03	06 00	B5 82	02 00	02 21	00 00
	Increment	BE	EF	03	06 00	D3 82	04 00	02 21	00 00
	Decrement	BE	EF	03	06 00	02 83	05 00	02 21	00 00
H.Phase	Get	BE	EF	03	06 00	49 83	02 00	03 21	00 00
	Increment	BE	EF	03	06 00	2F 83	04 00	03 21	00 00
	Decrement	BE	EF	03	06 00	FE 82	05 00	03 21	00 00
Sharpness	Get	BE	EF	03	06 00	F1 72	02 00	01 22	00 00
	Increment	BE	EF	03	06 00	97 72	04 00	01 22	00 00
	Decrement	BE	EF	03	06 00	46 73	05 00	01 22	00 00
Color	Get	BE	EF	03	06 00	B5 72	02 00	02 22	00 00
	Increment	BE	EF	03	06 00	D3 72	04 00	02 22	00 00
	Decrement	BE	EF	03	06 00	02 73	05 00	02 22	00 00
Tint	Get	BE	EF	03	06 00	49 73	02 00	03 22	00 00
	Increment	BE	EF	03	06 00	2F 73	04 00	03 22	00 00
	Decrement	BE	EF	03	06 00	FE 72	05 00	03 22	00 00
BNC	Set	RGB	BE	EF	03 06 00	C2 D7	01 00	11 20	00 00
		Component	BE	EF	03 06 00	52 D6	01 00	11 20	01 00
	Get	BE	EF	03 06 00	F1 D7	02 00	11 20	00 00	
Video Format	Set	Auto	BE	EF	03 06 00	9E 75	01 00	00 22	0A 00
		NTSC	BE	EF	03 06 00	FE 71	01 00	00 22	04 00
		PAL	BE	EF	03 06 00	6E 70	01 00	00 22	05 00
		SECAM	BE	EF	03 06 00	6E 75	01 00	00 22	09 00
		NTSC 4.43	BE	EF	03 06 00	5E 72	01 00	00 22	02 00
		M-PAL	BE	EF	03 06 00	FE 74	01 00	00 22	08 00
	N-PAL	BE	EF	03 06 00	0E 71	01 00	00 22	07 00	
Get	BE	EF	03 06 00	0D 73	02 00	00 22	00 00		
HDTV	Set	1080i	BE	EF	03 06 00	F2 73	01 00	05 22	00 00
		1035i	BE	EF	03 06 00	62 72	01 00	05 22	01 00
	Get	BE	EF	03 06 00	C1 73	02 00	05 22	00 00	



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Command data chart (continued)

Names	Operation type		Header			Command data		
						CRC	Action	Type
Sync on G	Set	off	BE EF	03 06 00	CB D0	01 00	08 30	01 00
		on	BE EF	03 06 00	5B D1	01 00	08 30	00 00
	Get	BE EF	03 06 00	68 D1	02 00	08 30	00 00	
PinP Size	Set	off	BE EF	03 06 00	FE 22	01 00	00 23	00 00
		Large	BE EF	03 06 00	6E 23	01 00	00 23	01 00
		Small	BE EF	03 06 00	9E 23	01 00	00 23	02 00
	Get	BE EF	03 06 00	CD 22	02 00	00 23	00 00	
PinP Position	Set	Upper left	BE EF	03 06 00	02 23	01 00	01 23	00 00
		Upper right	BE EF	03 06 00	92 22	01 00	01 23	01 00
		Bottom left	BE EF	03 06 00	62 22	01 00	01 23	02 00
		Bottom right	BE EF	03 06 00	F2 23	01 00	01 23	03 00
	Get	BE EF	03 06 00	31 23	02 00	01 23	00 00	
PinP Audio ch	Set	RGB	BE EF	03 06 00	BA 22	01 00	03 23	00 00
		Video	BE EF	03 06 00	2A 23	01 00	03 23	01 00
	Get	BE EF	03 06 00	89 22	02 00	03 23	00 00	
PinP Input	Set	Video	BE EF	03 06 00	D6 22	01 00	02 23	01 00
		S-Video	BE EF	03 06 00	26 22	01 00	02 23	02 00
	Get	BE EF	03 06 00	75 23	02 00	02 23	00 00	
WHISPER	Set	NORMAL	BE EF	03 06 00	3B 23	01 00	00 33	00 00
		WHISPER	BE EF	03 06 00	AB 22	01 00	00 33	01 00
	Get	BE EF	03 06 00	08 23	02 00	00 33	00 00	
GAMMA	Set	NORMAL	BE EF	03 06 00	C7 F0	01 00	A1 30	00 00
		CINEMA	BE EF	03 06 00	57 F1	01 00	A1 30	01 00
		DYNAMIC	BE EF	03 06 00	A7 F1	01 00	A1 30	02 00
	Get	BE EF	03 06 00	F4 F0	02 00	A1 30	00 00	
Over Scan	Set	Large	BE EF	03 06 00	C2 71	01 00	09 22	02 00
		Middle	BE EF	03 06 00	32 71	01 00	09 22	01 00
		Small	BE EF	03 06 00	A2 70	01 00	09 22	00 00
	Get	BE EF	03 06 00	91 70	02 00	09 22	00 00	
MyScreen Size	Set	Full	BE EF	03 06 00	43 D6	01 00	12 30	00 00
		X1	BE EF	03 06 00	D3 D7	01 00	12 30	01 00
	Get	BE EF	03 06 00	70 D6	02 00	12 30	00 00	
MyScreen Lock	Set	off	BE EF	03 06 00	3B EF	01 00	C0 30	00 00
		on	BE EF	03 06 00	AB EE	01 00	C0 30	01 00
	Get	BE EF	03 06 00	08 EF	02 00	C0 30	00 00	
Lamp Time	Get	BE EF	03 06 00	C2 FF	02 00	90 10	00 00	
Filter Time	Get	BE EF	03 06 00	C2 F0	02 00	A0 10	00 00	
IR Remote Front	Set	off	BE EF	03 06 00	FF 32	01 00	00 26	00 00
		on	BE EF	03 06 00	6F 33	01 00	00 26	01 00
	Get	BE EF	03 06 00	CC 32	02 00	00 26	00 00	
IR Remote Rear	Set	off	BE EF	03 06 00	03 33	01 00	01 26	00 00
		on	BE EF	03 06 00	93 32	01 00	01 26	01 00
	Get	BE EF	03 06 00	30 33	02 00	01 26	00 00	
IR Remote Top	Set	off	BE EF	03 06 00	47 33	01 00	02 26	00 00
		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	

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