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Liquid Crystal Projector

CP-S225W / CP-X275W

USER'S MANUAL

Please read this user's manual thoroughly to ensure correct usage through understanding.

BEDIENUNGSANLEITUNG

Bitte lessen Sie diese Bedienungsanleitung zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION

Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

MANUALE D'ISTRUZIONI

Vi preghiamo voler leggere attentamente il manuale d'sitruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO

Lea cuidadosamente este manual del usuario para poder utilizar corretamente el producto.

GEBRUIKSAANWIJZING

Lees voor het gebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK

Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

INSTRUCÕES DO PROPRIETÁRIO

Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do usuário.

TECHNICAL

ATORY NOTICES

ENGLISH DEUTSCH

ESPAÑOL **NEDERLANDS**

NORSK

PORTGÊS

Page

Liquid Crystal Projector

USER'S MANUAL

Thank you for purchasing this liquid crystal 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" and "REGULATORY NOTICE", see the end of this manual.

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.

Outstanding Brightness

The UHB lamp and high-efficiency optical system assure a high level of brightness.

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing.

Distortion Correction Function

Distortion-free images are quickly available.

Extra-low Noise Function

Acoustic noise level from the unit can be reduced.

BEFORE USE

Contents of package

Make sure all of the following items are included in the package. If anything is missing, please contact your dealer.

NOTE • Keep the original packing material for future reshipment.



Projector



Power Cord (US Type)



Power Cord (UK Type)



Power Cord (Europe Type)



User's Manual (this manual)



RGB Cable



Component Video Cable (with green lead)

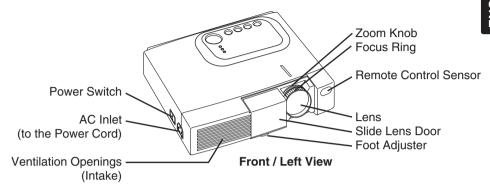


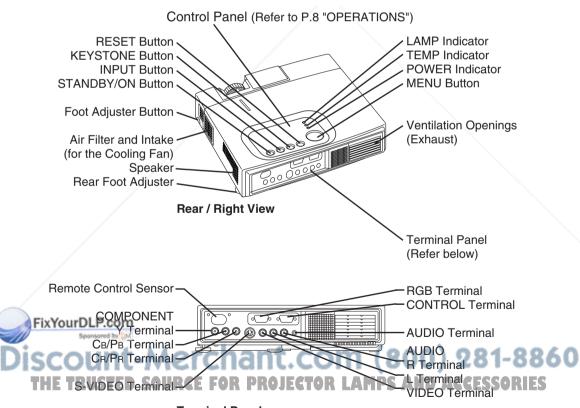
Remote Controller containing Battery

Carrying Bag

BEFORE USE (continued)

Part Names

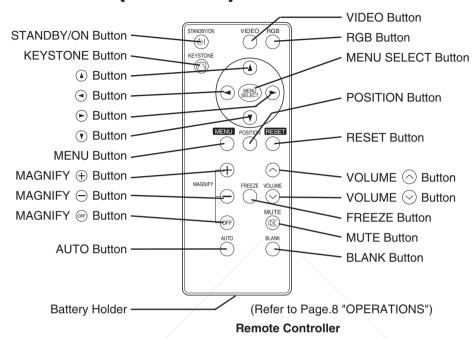




Terminal Panel

BEFORE USE (continued)

Part Names (continued)



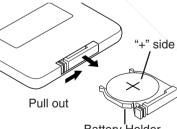
Loading the Batteries

First Loading:

In original packing, the battery is installed in the battery holder of the remote controller with protection film(the transparent film some of which is inside the battery folder). Pull out the protection film to load the battery.

Replacing:

- 1. See the reverse side of the remote controller.
- 2. Pinch the groove and pull out battery holder as the drawing right.
- 3. Remove the worn battery.
- 4. Install the new battery with "+" side facing.
- 5. Push in and click the battery holder.



Battery Holder

• Use the 3V micro lithium battery type no.CR2025 only.

- When loading the battery, make sure the plus and minus terminals are correctly oriented as indicated in the remote controller.
- When you dispose the battery, you should obey the law in the relative area or country.
 - · Keep the battery away from children and pets.
 - When not to be used for an extended period, remove the battery from the remote controller.

NOTE Replace the batteries when remote control transmitter operation becomes difficult.

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INSTALLATION

Installation of the Projector and Screen

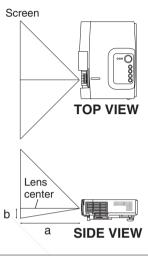
Refer to the drawing and table below for determining the screen size and projection distance.

The projection distances shown in the table below are for full size (CP-S225W:800 x 600 dots / CP-X275W:1024 x 768 dots).

- a: Distance from the projector to the screen. (±10%)
- **b**: Distance from the lens center to the bottom of the screen. (±10%)

Table 1. Installation Reference

	otana		-
Screen size	a [inch	es (m)]	b
[inches (m)]	Min.	Max.	[inches (cm)]
40 (1.0)	37 (0.9)	46 (1.2)	3 (8.7)
60 (1.5)	57 (1.5)	69 (1.8)	5 (13.1)
80 (2.0)	77 (1.9)	93 (2.4)	7 (17.4)
100 (2.5)	96 (2.4)	116 (2.9)	9 (21.8)
120 (3.0)	116 (2.9)	139 (3.5)	10 (26.1)
150 (3.8)	145 (3.7)	174 (4.4)	13 (32.7)
200 (5.0)	194 (4.9)	233 (5.9)	17 (43.5)



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

- Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position and the side up position, this may cause the heat inside to build up and cause damage. Be especially careful not to install it with ventilation holes blocked.
- Do not install LCD projector in smoke effected environment. Smoke residue may buildup on critical parts (i.e.LCD panel, Lens Assy etc.).

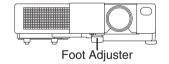
Anale Adiustment

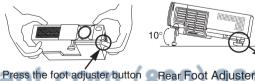
Use the foot adjusters on the bottom of the projector to adjust the projection angle. It is variable within 0° to 10° approximately.

1. Lift up the front side of the projector, and pressing the foot adjuster button, adjust the projection angle.

Release the button to lock at the desired angle

3. Make the rear foot adjuster screw to adjust the left-right slope.







CAUTION • Do not release the foot adjuster button unless the projector is being held; otherwise, the projector could overturn or fingers could get caught and cause personal injury.

INSTALLATION (continued)

Cabling

Refer to the table below for connecting each terminal of the projector to a device.

Table 2. Cabling

Function	Terminal	Cable
Analog RGB input	RGB	Accessory RGB cable or optional RGB cable with D-sub 15-pin shrink jack and inch thread screws
RS-232C communication	CONTROL	Optional RS-232C cable
Audio input (from the computer)	AUDIO	Optional audio cable with stereo mini jack
	COMPONENT VIDEO Y	
Component video input	COMPONENT VIDEO CB/PB	Accessory component video cable
	COMPONENT VIDEO CR/PR	
S-video input	S-VIDEO	Optional S-video cable with mini DIN 4-pin jack
Video input	VIDEO	
Audio input	AUDIO L	Optional video/audio cable with RCA jack
(from video equipment)	AUDIO R	

- **CAUTION** Incorrect connecting could result in fire or electrical shock. Please read this manual and the separate "SAFETY INSTRUCTIONS".
- · Before connecting, turn off to all devices to be connected, except for the USB
- 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.

NOTE • Before connecting, read instruction manuals of the devices to be connected, and make sure that the projector is compatible with the device.

- Secure the screws on the connectors and tighten.
- For some RGB input modes, the optional Mac adapter is necessary.
- To select the digital RGB input, the comuter may need some settings. See the manuals of the computer for
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- Refer to the "TECHNICAL" section for the pin assign ment of connectors.
- Refer to manual of the optional RS-232C cable, for the communication data. For others, consult your dealer.

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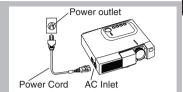
INSTALLATION (continued)

Power Connection

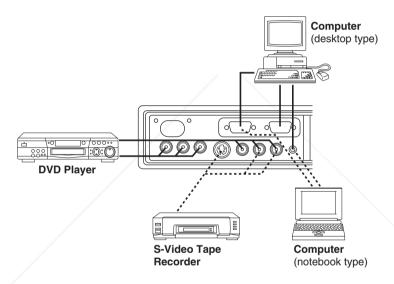
Use the correct power cord depending on the power outlet to be used. Connect the AC inlet of the projector to the power outlet firmly by the power cord.

CAUTION • Be carful in handling the power cord according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.

· Connect the power cord firmly. Avoid using a loose, unsound outlet or failed contact.



Example of system setup



NOTE • When connecting with a notebook computer, set the proper RGB external image output (setting CRT display or simultaneous display of LCD and CRT). Please read instruction manual of the notebook for more information.

Plug & Play

This projector is VESA DDC 1/2B compatible. Plug & play is possible by connecting to a computer that is VESA DDC (Display Data Channel) compatible.
Please use this function by connecting the accessory RGB cable with RGB terminal. Plug & play

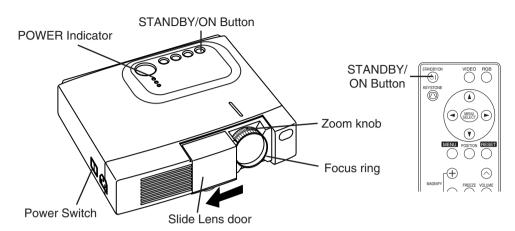
may not operate by other connections.

NOTE • Plug & play is a system configured with peripheral equipment including a computer,

- display and an operating system.

 This projector is recognized as a plug & play monitor. Use the standard display drivers.
- Plug & play may not operate by the computer to connect.

OPERATIONS



Power ON

- 1. Check that the power cord is connected correctly.
- 2. Set the power switch to [1]. The standby mode is selected, and the POWER indicator is turned to orange.
- 3. Press the STANDBY/ON button (a) on the control panel or the remote controller. Warm-up begins and the POWER indicator blinks in green.
- The POWER indicator ceases blinking and turns to green when power is on. Open the slide lens door.
- 5. Adjust picture size using the Zoom knob.
- 6. Adjust focus using the Focus ring.

Power OFF

- 1. Press the STANDBY/ON button (b) on the control panel or the remote controller. Then, the message "Power off?" will appear on the screen, and the message will disappear by any operation or no operation for 5 seconds. During this messsage indication, press the STANDBY/ON (c) button again. The projector lamp is extinguished and lamp cooling begins. The POWER indicator blinks orange during lamp cooling. Pressing the STANDBY/ON button (d) has no effect while the POWER indicator is blinking.
- 2. The system assumes the Standby mode when cooling is complete, and the POWER indicator ceases blinking and changes to orange. Check that the indicator is orange and set the Power switch to [O].
- 3. The POWER indicator is extinguished when power is off. Do not forget to close the lens door.

WARNING • Please read this manual, and the separate "SAFETY INSTRUCTIONS" thoroughly before using the equipment. Always ensure that the equipment is used safely.

NOTE • Except in emergencies, do not turn off unless the POWER indicator is orange as it will

reduce the life of the projector lamp.

• To prevent any troble, turn on/off the projector when the computer or video tape recorder is OFF.

Providing a RS-232C cable is connected, turn on the computer before the projector.

• When a projector continues projecting the same image, the image may remain as an afterimage. Please do not project the image same for a long time.

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Basic Operation

The basic operations shown in Table 3 is performed from the supplied remote controller or the projector control panel. Items indicated by (*) may be used from the control panel.

Table 3 . Basic Operation

Item	Description
INPUT SELECT	Select Input Signal (*): Press the INPUT button. RGB→ VIDEO → S-VIDEO → COMPONENT (→ RGB) Select RGB Input: Press the RGB button. VIDEO/S-VIDEO/COMPONENT → RGB Select Video Input: Press the VIDEO button. RGB → VIDEO/S-VIDEO/COMPONENT
	VIDEO/S-VIDEO/COMPONENT VIDEO → S-VIDEO → COMPONENT (→ VIDEO) • The selected signal name is displayed for approximately 3 seconds when the input signal is changed.
	Set/Clear Position Adjustment Mode: Press the POSITION button. The [□] icon is displayed in the POSITION mode. Image Position Adjustment:
POSITION	Press the ⊙, ⊙, ④ and ⊙ buttons in the POSITION mode. • Valid only in the MAGNIFY mode with a video signal is input. • After approximately 10 seconds of inactivity the [□] icon is extinguished and the POSITION mode is cleared automatically.
RESET (*)	Initialize Each Item: Select an item and press the RESET button. Initialize Position Adjustment: Press the RESET button and the POSITION mode. This function is valid only when RGB signal is input. • Valid except for the VOLUME, LANGUAGE, H PHASE and WIHSPER.
MAGNIFY	Set MAGNIFY Mode: Press the MAGNIFY ⊕ button. Move Magnified Area: Run the POSITION in the MAGNIFY mode. Adjust Magnification: Press the MAGNIFY ⊕ / ⊖ button in MAGNIFY mode. MAGNIFY ⊕ magnifies the image ↔ MAGNIFY ⊖ reduces the image Clear MAGNIFY Mode: Press the MAGNIFY ⊕ button. • The MAGNIFY mode is cleared by running or setting the AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.
FREEZE	Set/Clear FREEZE Mode: Press the FREEZE button. The [II] icon is displayed, and the image frozen, in the FREEZE mode. • The FREEZE mode is cleared by running or setting POSITION, VOLUME, MUTE, Automatic Adjustment, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal.
YourDLP.co	Do not forget to clear frozen static images.

NOTE • Use the remote controller at a distance of approximately 3m from the sensor on the front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote controller. (It continue the next page.)

Set/Clear KEYSTONE Mode: Press the KEYSTONE

button.

Adjust Keystone: Press the

√ button in the KEYSTONE mode.

reduces the bottom size of image

reduces the top size of image.

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Items indicated by (*) may be used from the control panel.

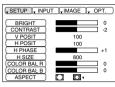
Table 3. Basic Operation (continued)

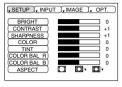
Item	Description
VOLUME	Volume Adjustment : Press the VOLUME ⊘ / ⊙ button. ⊙ reduces the volume ↔ ⊙ increases the volume
MUTE	Set/Clear Mute Mode: Press the MUTE button. No sound is heard in the MUTE mode.
AUTO	Automatic Adjustment at RGB Input: Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic Adjustment at Video Input: Press the AUTO button. A signal type appropriate for the input signal is selected automatically. Valid only when AUTO is set for VIDEO on the menu. This operation requires approximately ten seconds. It may not function correctly with some input signals.
BLANK ON/OFF	Set/Clear Blank Mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu.
MENU ON/OFF (*)	Menu Display Start/Stop: Press the MENU button. • The menu display is terminated automatically after approximately ten seconds of inactivity.
MENU SELECT	Select Menu Type: Press the MENU SELECT button. Allows the user to select the normal menu or the single menu. Only the selected item is displayed on the single menu, and other items are displayed with the ② and ③ buttons as with the normal menu. • Valid only when the Setup menu is used. Push the MENU SELECT button after selecting items such as "BRIGHTNESS". Normal menu (MENU SELECT)

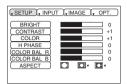


Setup Menu

The following adjustments and settings are possible when SETUP is selected at the top of the menu. Part of the Setup menu differs between RGB input and video input. Select an item with the ① and ① buttons, and start operation. Use the Single menu to reduce menu size (see Table 3, MENU SELECT).







RGB

VIDEO/S-VIDEO

COMPONENT

Table 4. Setup Menu

				COMP	ONENT
Item	Description	RGB	VIDEO S-VIDEO	480i 575i 480P	720P 1080i
BRIGHT	Dark ⊙ ↔ Light ⊙	~	~	~	~
CONTRAST	Weak ⊙ ↔ Strong ⊙	~	~	V	~
V POSIT	Down ⊙ ↔ Up ⊙	~	-	-	-
H POSIT	Left ⊙ ↔ Right ⊙	~	-	-	-
H PHASE	Left ⊙ ↔ Right ⊙ • Adjust to eliminate flicker.	~	-	~	~
H SIZE	Small ⊙ ↔ Large ⊙ • The image may not be displayed correctly if the horizontal size is excessive. In such cases, press the RESET button, and initialize the horizontal size.	~	-	-	-
SHARPNESS	Soft ⊙ ↔ Clear ⊙	-	~	\-	-
COLOR	Light ⊙ ↔ Dark ⊙	-	~	~	~
TINT	Red ⊙ ↔ Green ⊙ • Valid only when NTSC or NTSC 4.43 signal is received.	-	~	-	1
COLOR BAL R	Light ⊙ ↔ Dark ⊙	~	~	V	~
	Light ⊙ ↔ Dark ⊙	~	~	V	~
	Select Image Aspect Ratio : $4:3[\] \ \odot \leftrightarrow \odot \ 16:9 \ [\] \ $ Select Position of Image: Press the \odot button while $16:9 \ [\] \ $ is selected. Center $\rightarrow \odot$ Down $\rightarrow \odot$ Up (\rightarrow Center \odot)	V	-	-	V
₩SRFØLP.co	Select Image Aspect Ratio: 4:3[☐] ⊙ ↔ ⊙ 16:9[☐] ⊙ ↔ ⊙ 4:3 small[☐]				
Sponsored by	Select Position of Image :				
coun	Press the ^③ button while 16:9[☐] / 4:3 small[☐] is selected.	30	0) !	28	1-8
E TRUSTE	Center → ⑤ Down → ⑥ Up (→ Center ⑥) ▼ P • 4:3 small may not be displayed correctly with some input signals.	5 AN	D AC	CES	SORI

Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the (a) and (b) buttons, and start operation.

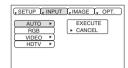


Table 5. Input Menu

rabio or imp	
Item	Description
AUTO	Operation Start/Stop: Press the ⊙ / ⊙ button. Automatic Adjustment at RGB Input: Select the EXECUTE with the ⊙ button. Horizontal position (H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size (H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. • This operation requires approximately 10 seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem. • This function is the same as for the AUTO function in Basic operation.
RGB	Displays RGB Input Frequency: Displays the horizontal and vertical sync signal frequencies for RGB input. • Valid only at RGB input.
VIDEO	Operation Start/Stop: Press the ⊙ / ⊙ button. Select Video Signal Type: Select the signal type with the ④ and ⊙ buttons. Select NTSC, PAL, SECAM, NTSC4.43, M-PAL, or N-PAL as appropriate for the input signal. The selection of AUTO enables and executes the function AUTO (Automatic Adjustment at Video Input), except for the N-PAL input. • Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color) at VIDEO/S-VIDEO input. • Automatic Adjustment requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem except for the N-PAL input. • For the COMPONENT VIDEO input, this function is not effective and the signal type is distinguished automatically.
HDTV	Operation Start/Stop: Press the ⊙ / ⊙ button. Select HDTV Mode: Select the 1080i mode or 1035i mode suitable for the input signal with the ④ / ⊙ button. • When the selected HDTV mode is incompatible with the input signal, the image may be incorrect (eg. the display position or color is incorrect).



Image Menu

The following adjustments and settings are available when IMAGE is selected on the menu. Select an item with the \odot and \odot buttons, and start operation.



Table 6. Image Menu

Item	Description
	Select Blank Screen Color: Select color with the ⊙ and ⊙ buttons.
BLANK	•The image is cleared and the entire screen is displayed in the selected color, when
	BLANK mode is set with BLANK ON, or when there is no signal for 5 minutes.
MIRROR	Operation Start/Stop: Press the ⊙ / ⊙ button.
	Select Mirror Status: Select mirror status with ① and ① buttons.
	Operation Start/Stop: Press the ⊙ / ⊙ button.
	Setup Initial Screen Display: Select TURN ON with the 4 button.
START UP	Clear Initial Screen Display: Select TURN OFF with the ⊕ button. • Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.
GAMMA	Operation Start/Stop: Press the ⊙ / ⊙ button.
GAIVIIVIA	Select Gamma Mode: Select the gamma mode with the ⊙ / ⊙ button.
001.00	Operation Start/Stop: Press the ⊙ / ⊙ button.
COLOR TEMP	Select Color Temperature:
IEWIP	Select the color temperature mode with the ① / ① button.



Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the ① and ① buttons, and start operation.

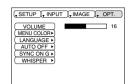


Table 7. Options Menu

Item	Description
VOLUME	Volume Adjustment: Reduce VOLUME ⊙ ↔ Increase VOLUME ⊙
MENU COLOR	Select Menu Background Color: Select with the ⊙ and ⊙ buttons.
LANGUAGE	Operation Start/Stop: Press the ⊙ or ⊙ button. Select Menu Display Language: Select with the ④ and ⊙ buttons.
AUTO OFF	Operation Start/Stop: Press the ⊙ or ⊙ button. Set AUTO OFF: Set 1~99 minutes with the ⊙ and ⊙ buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the ⊙ button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	Operation Start/Stop: Press the ⊙ or ⊙ button. SYNC ON G Valid: Select TURN ON with the ⑥ button. SYNC ON G Invalid: Select TURN OFF with the ⑨ button. • May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal.
WHISPER	Operation Start/Stop: Press the ⊙ or ⊙ button. Set/Clear Wisper Mode: Press ④/⊙ button. When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic noise level from the unit is reduced, brightness level on screen is a little lower.



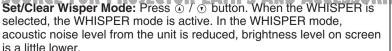
No Signal Menu

The same adjustments and settings are available with the Image and Options menus when the MENU button is pressed during display of the "NO INPUT IS DETECTED ON ***" or "SYNC IS OUT OF RANGE ON ***" message while no signal is received.



WHISPER

Item Description		
VOLUME	Volume Adjustment: Reduce VOLUME ⊙ ↔ Increase VOLUME ⊙ • When this function is used, audio input is automatically switched to video. The audio input can be switched by moving the DISK PAD left and right during the display of the volume adjustment bar. The volume adjustment bar is displayed by pressing VOLUME ⊙ or VOLUME ⊙ button.	
BLANK	Select Blank Screen Color: Select the color with the ⊙ and ⊙ buttons. •The image is cleared and the entire screen is displayed in the selected color, when BLANK mode is set with BLANK ON, or when there is no signal for 5 minutes.	
MIRROR	Operation Start/Stop: Press the ⊙ / ⊙ button. Select Mirror Status: Select the mirror status with the ④ and ⊙ buttons.	
START UP	Operation Start/Stop: Press the ⊙ / ⊙ button. Setup Initial Screen Display: Select the TURN ON with the ⊙ button. Clear Initial Screen Display: Select the TURN OFF with the ⊙ button. Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.	
MENU COLOR	Select Menu Background Color: Select the color with the ⊙ and ⊙ buttons.	
LANGUAGE	Operation Start/Stop: Press the ⊙ / ⊙ button. Select Menu Display Language: Select the language with the ⊙ and ⊙ buttons.	
AUTO OFF	Operation start/stop: Press the ⊙ / ⊙ button. Set AUTO OFF: Set 1~99 minutes with the ④ and ⊙ buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select the STOP (0 min.) with the ⊙ button. When the STOP is selected the system does not enter the standby mode even if no signal is received.	
Sponsored by DM	Operation Start/Stop: Press the ⓒ / ⓒ button. SYNC ON G Valid: Select the TURN ON with the ⓒ button. SYNC ON G Invalid: Select the TURN OFF with the ⑨ button. • May not be displayed correctly with some input signals when the SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set the SYNC ON G to invalid, and reconnect the signal.	



MAINTENANCE

Lamp









HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

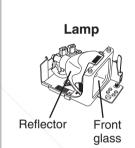
Contact your dealer before replacing the lamp.

For the optional lamp, see the item "Optional Parts" of the Table 12.

Before replacing the lamp, switch power OFF, remove the power cord from the power outlet, and wait approximately 45 minutes until the lamp has cooled. The lamp may explode if handled at high temperatures.

<u>WARNING</u> • For disposal of used lamp, treat according to the instruction of community authorities.

- Since the lamp is made of glass, do not apply shock to it and do not scratch it.
- Also, do not use old lamp. This could also cause explosion of the lamp.
- If it is probable that the lamp has exploded (explosive sound is heard), disconnect the power plug from the power outlet and ask your dealer to replace lamp. The lamp is covered by front glass, but in rare cases, the reflector and the inside of the projector may be damaged by scattered broken pieces of glass, and broken pieces could cause injury when being handled.
- Do not use the projector with the lamp cover removed.



Lamp Life

Projector lamps have a finite life. The image will become darker, and hues will become weaker, after a lamp has been used for a long period of time.

Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message appears when the projector is switched ON. See Table 9 of P.19 and Table 10 of P.20.

NOTE • 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.

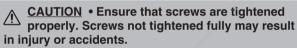


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MAINTENANCE ((continued))

Replacing the Lamp

- 1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool.
- 2. Prepare a new lamp.
- 3. Check that the projector has cooled sufficiently, and gently turn it upside down.
- Loosen the two screws as shown in the diagram, and remove the lamp cover.
- Loosen the one screw, and gently remove the lamp while holding the grips. Touching the inside of the lamp case may result in uneven coloring.
- Install the new lamp and tighten the one screw firmly. Also steadily push the opposite side of the screwed lamp into the unit.
- Replace the lamp cover in position and tighten the two screws firmly.
- 8. Gently turn the projector right-side up.



 Do not use the projector with the lamp cover removed.







Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp. When the message of "CHANGE THE LAMP ... THE POWER WILL TURN OFF AFTER 0 hr." is displayed, complete the following operation within 10 minutes. The power will be turned off automatically in over 10 minutes.

- 1. Switch power ON, and press the RESET button, for approximately three seconds. The 'LAMP xxxx hr' message will appear on the lamp timer on the bottom of the screen.
- 2. Press the MENU button on the remote control transmitter, or the RESET button on the control panel, while the lamp timer is displayed. The 'LAMP xxxx $\square \rightarrow 0 \blacksquare$ CANCEL' message will then appear.
- 3. Press the and select 0, and wait until the timer display is cleared.

NOTE • 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.

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MAINTENANCE (continued)

Air Filter Maintenance

The air filter should be cleaned as described below at intervals of approximately 100 hours.

- 1. Switch the projector power supply OFF, and remove the power cord from the power outlet.
- 2. Clean the air filter with a vacuum cleaner.

<u>CAUTION</u> • Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the separate "SAFETY INSTRUCTIONS" thoroughly to ensure that maintenance is performed correctly.

- Replace the air filter if contamination cannot be removed, or if it is damaged. Contact your dealer in such case. For the optional air filter, see the item "Optional Parts" of the Table 12.
- Do not use the equipment with the air filter removed.
- When the air filter is clogged with dust etc. the power supply is switched OFF automatically to prevent the temperature rising inside the projector.

Other Maintenance

Maintenance Inside the Equipment

For safety reasons, ensure that the equipment is cleaned and checked by the dealer once every two years. Maintaining the equipment by yourself is dangerous.

Cleaning the Lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the Cabinet and Remote control transmitter

Gently wipe with a soft cloth. If dirt and stains etc. are not easily removed, use a soft cloth dampened with water, or water and a neutral detergent, and wipe dry with a soft, dry cloth.

<u>CAUTION</u> • Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the separate "SAFETY INSTRUCTIONS" thoroughly to ensure that maintenance is performed correctly.

- Do not use detergents or chemicals other than those noted above (e.g. benzene or thinners).
- Do not use cleaning sprays.
- Do not rub with hard materials, or tap the equipment.



TROUBLESHOOTING

OSD Message

The messages as described below may appear on the screen at power ON. Take the appropriate measures when such messages appears.

Table 9. OSD Messages

Message	Contents
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. (*1)	The usage time of lamp will be reaching 2000 hr shortly.(*2) It is recommended to replace the lamp soon. Prepare a new lamp as a replacement.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER ** hr. (*1)	The usage time of lamp will be reaching 2000 hr shortly. It is recommended to replace the lamp within * * hours.(*2) It might be happened that the lamp is cut off before * * hr by any chance. Power will be switched OFF automatically in * * hours. Replace the lamp as shown in P.17~18 "Lamp". Always reset the lamp timer after replacing the lamp.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER 0 hr.	The usage time of lamp is about to reach. Power will be switched OFF in a few minutes.(*2) Switch power OFF immediately and replace the lamp as shown in P.17 ~18 "Lamp". Always reset the lamp timer after replacing the lamp.
NO INPUT IS DETECTED ON ***	No input signal found. Check signal input connections and signal sources.
SYNC IS OUT OF RANGE ON ***	The horizontal or vertical frequency of the input signal is not within the specified range. Check the specifications of the equipment and the signal source.

NOTE (*1) This message is cleared automatically after approximately three minutes, and appears every time power is switched ON.

(*2) The unit has a function to turn the power off which will be active when the usage time reaches 2000 hr. However the life of lamp might be much different among lamps, so that it might be **Fixhappened that a lamp** is cut off before the function is active.

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TROUBLESHOOTING (continued)

Indicators Message

The POWER indicator, LAMP indicator, and TEMP indicator are lit and blank as follows. Take the appropriate measures.

Table 10. Indicators Message

POWER indicator	LAMP indicator	TEMP indicator	Contents
Lights orange	Turns off	Turns off	The Standby mode has been set.
Blinks green	Turns off	Turns off	Warming up. Please wait.
Lights green	Turns off	Turns off	ON. Normal operation possible.
Blinks orange	Turns off	Turns off	Cooling. Please wait.
Blinks red	-	-	Cooling. Please wait. The error is found. Take the appropriate measures when the POWER indicator ceases blinking
Blinks /Lights red	Lights red	Turns off	Lamp is not lit. The interior of the equipment may be too hot. Switch power OFF, wait 20 minutes until the equipment cools, and check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. And switch power ON again. Replace the lamp if the same problem occurs.
Blinks /Lights red	Blinks red	Turns off	Lamp or lamp cover is not found, or hasn't been fitted in correctly. Switch power OFF, and wait for 45 minutes until the equipment cools. Check fitting of the lamp and lamp cover, and switch power ON again. Contact your dealer if the same problem occurs again.
Blinks /Lights red	Turns off	Blinks red	The cooling fan is not operating. Switch power OFF, and wait for 20 minutes until the equipment cools. Check for foreign matters in the fan, and switch power ON again. Contact your dealer if the same problem occurs again.
Blinks /Lights red	Turns off	Lights red	The interior of the equipment is too hot. *2) Switch power OFF, and wait for 20 minutes until the equipment cools. Check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. Then switch power ON again. Contact your dealer if the same problem occurs again.
Lights P. o	Blinks red	Blinks red	The interior of the equipment is too cool. Check whether the ambient temperature is below 0°C. Contact your dealer if the same problem occurs when the ambient temperature is $0~35$ °C.

NOTE *2) When the internal temperature becomes excessive power is switched OFF automatically for safety reasons, and the indicator is extinguished. Set the power switch to [O] and wait for 20 minutes until the equipment has cooled sufficiently.

TROUBLESHOOTING (continued)

Symptom

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

Table 11. Symptom

Symptom	Possible cause	Remedy	Page
The power is not	The main power switch is not turned on.	Turn on the main power switch.	7,8
turned on.	The power cord is disconnected.	Plug the power cord into an AC power outlet.	7,0
No video or audio.	The input is not correctly set.	Use the projector or remote control transmitter to set.	9
Tro video of addic.	No signal input.	Connect correctly.	6,7
	The projector is not correctly connected.	Connect correctly.	6,7
Video is present but no audio.	The volume is set to minimum.	Press VOLUME ⊘ on the remote control or display the menu screen and adjust the volume.	10,14
	Mute is turned on.	Press the MUTE ® button.	10
	The projector is not correctly connected.	Connect correctly.	6,7
Audio is present but no video.	The brightness is set to minimum.	Select BRIGHT with the MENU button and the press the ⊙ button.	11
	The slide lens door is still closed.	Open the slide lens door.	8
Colors are pale and color matching is poor.	Color density and color matching are not correctly adjusted.	Adjust the video.	11
Imagos aro dark	Brightness and contrast are not correctly adjusted.	Adjust the video.	11
Images are dark.	The lamp is nearing the end of its service life.	Replace with a new lamp.	16,17
Images are blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	8,11



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SPECIFICATIONS

Table 12. Specifications

	Item		Specification					
Product nam	ne		Liquid crystal projector					
	Panel size		1.8 cm (0.7 type)					
Liquid - crystal	Drive system		TFT active matrix					
nonal	Pixels		CP-S225W: 480,000 pixels (800 horizontal x 600 vertical) CP-X275W: 786,432 pixels (1024 horizontal x 768 vertical)					
Lens			Zoom lens F=2.0 ~ 2.3 f=18 ~ 21 mm					
_amp			150 W UHB					
Speaker			1.0 W					
Power suppl	ly		AC100 ~ 120V, 2.7A / AC220 ~ 240V, 1.3A					
Power consu	umption		240 W					
Temperature	reight (mass)		0 ~ 35°C (Operating)					
Size	e		289 (W) x 84 (H) x 215 (D) mm					
Weight (mas	ss)		CP-S225W : 2.4 kg CP-X275W : 2.5 kg					
RGB signal	RGB IN		Video: Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack					
input	AUDIO IN	IO IN 200mVrms, 47 kΩ (max. 3.0Vp-p) Stereo mini jack						
	VIDEO		1.0Vp-p, 75Ω terminator RCA jack					
Video	S-VIDEO		Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (NTSC, burst signal), 75Ω terminator 0.3Vp-p (PAL/SECAM, burst signal), 75Ω terminator Mini DIN 4-pin jack					
signal input	COMPONENT	Υ	1.0 Vp-p, 75 Ω Terminator (Positive)					
	VIDEO		0.7 Vp-p, 75 Ω Terminator (Positive)					
		PB/PR	0.7 Vp-p, 75 Ω Terminator (Positive)					
	AUDIO	L	200mVrms, 47 kΩ (max. 3.0Vp-p)					
		R	RCA jack					
Control functions	ICONTROL		D-sub 15-pin shrink plug					
Optional Par			Lamp: DT00401 (CP-S225W) / DT00461 (CP-X275W) Air Filter: MU01461 * For others, consult your dealer.					

NOTE • This specifications are subject to change without notice.

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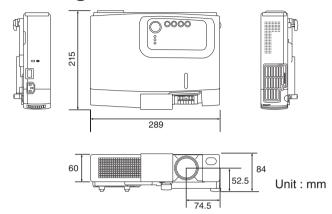
WARRANTY AND AFTER-SERVICE

If a problem occurs with the equipment, first refer to the P.20 "TROUBLESHOOTING" 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

Dimension Diagram



Signal Connector Pin Assignment

1. D-sub 15-pin Shrink Connector (RGB IN)

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

5 4 3 2 1 0 9 8 7 6 1 4 3 2 1

2. Mini Din 4-pin Connector (S-VIDEO)

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



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Example of computer signal

Resolution	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode			
H × V	іп (кп2)	IV (П2)	naulig	Signal mode	CP-S225W	CP-X275W		
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		

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.

• The image might be something wrong with computer by computer on the digital RGB mode. In this case, it is recommended to reduce the resolution and / or reflesh rate.

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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 /	Horiz	ontal sig	nal timin	g (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



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Connection to the Mouse Control

This function needs the optional "RMU Accessory kit".

If you need, ask your dealer.

For how to use the kit, please read the manual of the kit.

NOTE • Before connecting, read the instruction manuals of the devices to be connected.

• In the case of notebook type computers with an internal pointing device, the mouse control function will not work unless the internal pointing device is disabled. In such case, disable the internal pointing device and change the BIOS setting to select an external mouse.

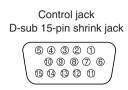
Also, some computers may not have a utility program to operate a mouse.

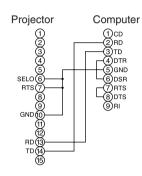
Refer to the computer hardware manual for detail.



RS-232C communication

- (1) Turn off the projector and computer power supplies and connect with 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
Act	ion	Ту	ре	Setting	g code
low	high	low	high	low	high

Action (byte_0 - 1)

	THURSDAY OF THE		
/	Action ared by	Classification	Content
0	COUR	SET Morchan	Change setting to desired value.
9	2	GET	Read projector internal setup value.
ΓŊ	E TKUST	INCREMENT SE FUK PKC	Increment setup value by 1.110 ACC -5501
	5	DECREMENT	Decrement setup value by 1.
	6	EXECUTE	Run a command.

Requesting projector status (Get command)

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

Changing the projector settings (Set command)

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

Using the projector default settings (Reset Command)

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

Increasing the projector setting value (Increment command)

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

Decreasing the projector setting value (Decrement command)

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

When 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

• Provide an interval of at least 40ms between the response code and any other code. AGCESSORIES

- 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.

TECHNICAL - 6

Command data chart

Names Operation type Header CRC Action Type Setting code	Names		noration type		Joodor				Comma	ınd data
Drange BE EF 03 06 00 AB D2 01 00 00 30 01 00 00 00	ivames	0	peration type	'	reader		CRC	Action	Туре	Setting code
Blank Color Set Blue BE EF 03			Red	BE EF	03	06 00	3B D3	01 00	00 30	00 00
Blank Color			Orange	BE EF	03	06 00	AB D2	01 00	00 30	01 00
Purple			Green	BE EF	03	06 00	5B D2	01 00	00 30	02 00
Purple BE EF 03 06 00 FB D1 01 00 00 30 04 00	Plank Color	Set	Blue	BE EF	03	06 00	CB D3	01 00	00 30	03 00
Black BE EF 03 06 00 9B D0 01 00 00 30 06 00 00 00 00	BIATIK COIOI		Purple	BE EF	03	06 00	FB D1	01 00	00 30	04 00
Mirror Set			White	BE EF	03	06 00	6B D0	01 00	00 30	05 00
Normal BE EF 03 06 00 C7 D2 01 00 01 30 00 00 00 00			Black	BE EF	03	06 00	9B D0	01 00	00 30	06 00
Mirror Mirror Set H Inverse BE EF 03 06 00 57 D3 01 00 01 30 01 00 02 00 H&V Inverse BE EF 03 06 00 A7 D3 01 00 01 30 02 00 H&V Inverse BE EF 03 06 00 A7 D3 01 00 01 30 03 00 Get BE EF 03 06 00 F4 D2 02 00 01 30 00 00 Freeze BE EF 03 06 00 B3 D2 01 00 02 30 00 00 Get BE EF 03 06 00 B3 D2 01 00 02 30 01 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 01 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 00 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 00 00 Green BE EF 03 06 00 EF D2 01 00 03 30 01 00 Green BE EF 03 06 00 EF D2 01 00 03 30 02 00 Green BE EF 03 06 00 BF D1 01 00 03 30 03 00 Furple BE EF 03 06 00 BF D1 01 00 03 30 04 00 Transparent BE EF 03 06 00 BF D1 01 00 03 30 05 00 Get BE EF 03 06 00 DF D0 01 00 03 30 06 00 Get BE EF 03 06 00 DF D0 01 00 03 30 00 00 Startup Get BE EF 03 06 00 BD D1 00 04 30 00 00 Français BE EF 03 06 00 BD D1 00 05 30 00 00 Français BE EF 03 06 00 07 D3 01 00 05 30 02 00 Español BE EF 03 06 00 07 D3 01 00 05 30 03 00 Norsk BE EF 03 06 00 07 D3 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D0 01 00 05 30 05 0			Get	BE EF	03	06 00	08 D3	02 00	00 30	00 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 Freeze BE EF 03 06 00 B4 D2 02 00 01 30 00 00 Freeze BE EF 03 06 00 B3 D2 01 00 02 30 01 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 00 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 00 00 Get BE EF 03 06 00 B0 D2 02 00 02 30 00 00 Grange BE EF 03 06 00 F7 D3 01 00 03 30 00 00 Green BE EF 03 06 00 EF D2 01 00 03 30 01 00 Green BE EF 03 06 00 BF D1 01 00 03 30 02 00 Furple BE EF 03 06 00 BF D1 01 00 03 30 03 00 Furple BE EF 03 06 00 BF D1 01 00 03 30 04 00 Gray BE EF 03 06 00 DF D0 01 00 03 30 06 00 Get BE EF 03 06 00 DF D0 01 00 03 30 00 00 Startup Get BE EF 03 06 00 BD D1 01 00 04 30 00 00 Français BE EF 03 06 00 BD D3 01 00 04 30 00 00 Français BE EF 03 06 00 07 D3 01 00 05 30 02 00 Español BE EF 03 06 00 07 D3 01 00 05 30 03 00 Norsk BE EF 03 06 00 07 D3 01 00 05 30 05 00 Norsk BE EF 03 06 00 07 D3 01 00 05 30 05 00 Nederlands BE EF 03 06 00 07 D3 01 00 05 30 05 00 Nortugués BE EF 03 06 00 07 D1 01 00 05 30 05 00 Nortugués BE EF 03 06 00 07 D1 01 00 05 30 05 00 Nortugués BE EF 03 06 00 07 D1 01 00 05 30 05 00 Nortugués BE EF 03 06 00 07 D1 01 00 05 30 07 00 Nortugués BE EF 03 06 00 07 D1 01 00 05 30 07 00 Nortugués BE			Normal	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
Mirror H&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 BE EF 03 06 00 83 D2 01 00 02 30 00 00 Freeze BE EF 03 06 00 03 01 00 02 30 01 00 Get BE EF 03 06 00 00 00 00 00 00		Sot	H Inverse	BE EF	03	06 00	57 D3	01 00	01 30	01 00
Get BE EF 03 06 00 F4 D2 02 00 01 30 00 00 00 00 00	Mirror	Set	V Inverse	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
Normal BE EF 03 06 00 83 D2 01 00 02 30 00 00 00 00 00			H&V Inverse	BE EF	03	06 00	37 D2	01 00	01 30	03 00
Freeze			Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
Freeze BE EF 03 06 00 13 D3 01 00 02 30 01 00 00 00 00 00 00		Cat	Normal	BE EF	03	06 00	83 D2	01 00	02 30	00 00
Nenu Color Set Red BE EF 03 06 00 7F D3 01 00 03 30 00 00 00 0	Freeze	Set	Freeze	BE EF	03	06 00	13 D3	01 00	02 30	01 00
Menu Color Set Biub BE EF 03 06 00 EF D2 01 00 03 30 01 00			Get	BE EF	03	06 00	B0 D2	02 00	02 30	00 00
Menu Color Set Green BE EF 03 06 00 1F D2 01 00 03 30 02 00			Red	BE EF	03	06 00	7F D3	01 00	03 30	00 00
Menu Color Set Blub BE EF 03 06 00 8F D3 01 00 03 30 03 00 Purple BE EF 03 06 00 BF D1 01 00 03 30 04 00 Transparent BE EF 03 06 00 2F D0 01 00 03 30 05 00 Get BE EF 03 06 00 DF D0 01 00 03 30 06 00 Get BE EF 03 06 00 4C D3 02 00 03 30 00 00 Startup Turn ON BE EF 03 06 00 BD 20 01 00 04 30 00 00 Get BE EF 03 06 00 9B D3 01 00 04 30 00 00 Get BE EF 03 06 00 9B D3 01 00 04 30 00 00 Get BE EF 03 06 00 7D D3 01 00 05 30 00 00 Français BE EF 03 06 00 7D D3 01 00 05 30			Orange	BE EF	03	06 00	EF D2	01 00	03 30	01 00
Purple			Green	BE EF	03	06 00	1F D2	01 00	03 30	02 00
Purple	Manu Calar	Set	Blub	BE EF	03	06 00	8F D3	01 00	03 30	03 00
Gray BE EF 03 06 00 DF D0 01 00 03 30 06 00 Get BE EF 03 06 00 4C D3 02 00 03 30 00 00 Startup Set Turn ON BE EF 03 06 00 08 D2 01 00 04 30 00 00 Turn OFF BE EF 03 06 00 9B D3 01 00 04 30 01 00 Get BE EF 03 06 00 9B D3 01 00 04 30 01 00 Get BE EF 03 06 00 38 D2 02 00 04 30 00 00 Fançais 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 02 00 Español BE EF 03 06 00 07 D3 01 00 05 30 03 00 Set Italiano BE EF 03 06 00 37 D1 01 00 05 30 04 00 Norsk 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 Os 30 07 00 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 00 07 00 07 00 Os 30 Os 30 07 00 07 07 07 07 07	Menu Color		Purple	BE EF	03	06 00	BF D1	01 00	03 30	04 00
Startup Set Turn ON BE EF 03 06 00 4C D3 02 00 03 30 00 00 00			Transparent	BE EF	03	06 00	2F D0	01 00	03 30	05 00
Startup Set Turn ON BE EF 03 06 00 08 D2 01 00 04 30 00 00 Turn OFF BE EF 03 06 00 9B D3 01 00 04 30 01 00 Get BE EF 03 06 00 38 D2 02 00 04 30 00 00 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 Norsk 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 O			Gray	BE EF	03	06 00	DF D0	01 00	03 30	06 00
Startup Set Turn OFF BE EF 03 06 00 9B D3 01 00 04 30 01 00 00 Get BE EF 03 06 00 38 D2 02 00 04 30 00 00 00 Français 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 Set 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 On the contraction of th			Get	BE EF	03	06 00	4C D3	02 00	03 30	00 00
Startup Turn OFF BE EF 03 06 00 9B D3 01 00 04 30 01 00 Get BE EF 03 06 00 38 D2 02 00 04 30 00 00 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 Set 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 <		Sot	Turn ON	BE EF	03	06 00	0B D2	01 00	04 30	00 00
English BE EF 03 06 00 F7 D3 01 00 05 30 00 00	Startup	Set	Turn OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
Français BE EF 03 06 00 67 D2 01 00 05 30 01 00			Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00
Deutsch BE EF 03 06 00 97 D2 01 00 05 30 02 00			English	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
Español BE EF 03 06 00 07 D3 01 00 05 30 03 00			Français	BE EF	03	06 00	67 D2	01 00	05 30	01 00
Language Norsk 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			Deutsch	BE EF	03	06 00	97 D2	01 00	05 30	02 00
Language 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			Español	BE EF	03	06 00	07 D3	01 00	05 30	03 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	Longuage	Set	Italiano	BE EF	03	06 00	37 D1	01 00	05 30	04 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		. 122	Norsk	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
Português BE EF 03 06 00 C7 D1 01 00 05 30 07 00			Nederlands	BE EF	03	06 00	57 D0	01 00	05 30	06 00
Japanese BE EF 03 06 00 37 D4 01 00 05 30 08 00		1	Português	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
	coun	T-	Japanese	BE EF	03	06 00	37 D4	01 00	05 30	08 00

TECHNICAL

Command data chart

					31.01					
Names	Operation typ			Header		_	Command data			
ivanies	Ope	ration type	'	icauci		CRC	Action	Туре	Setting code	
		Get	BE EF	03	06 00	7C D2	02 00	07 30	00 00	
Magnify	lr	ncrement	BE EF	03	06 00	1A D2	04 00	07 30	00 00	
	D	ecrement	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	lr	ncrement	BE EF	03	06 00	6E 86	04 00	10 31	00 00	
	D	ecrement	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	
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	
Auto		Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00	
	C-1	off	BE EF	03	06 00	FB D8	01 00	20 30	00 00	
Blank on/off	Set	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	
			BE EF	03	06 00	D9 D8	02 00	20 60	00 00	
Error Status		Get	(Example of 00 00 (Normal)	of Return 01 00 (Cover-	,	02 00 (Fan-erro	03 or) (La	00 mp-error)		
			04 00		00	06				
		OFF	(reserved) BE EF	03	served) 06 00	(La 2A D3	mp-Time- 01 00	over)	00 00	
Power	Set	OFF	BE EF	03	06 00	BA D2	01 00	00 60	00 00	
I OAAGI		Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00	
/		RGB1	BE EF	03	06 00	FE D2	01 00	00 20	00 00	
		Video	BE EF	03	06 00	6E D3	01 00	00 20	01 00	
Input Source	Set	SVideo	BE EF	03	06 00	9E D3	01 00	00 20	02 00	
input oouloo		Component	BE EF	03	06 00	AE D1	01 00	00 20	05 00	
ourDLP.com		Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00	
Sponsored by DM	,									
'Aunt-A	A	Get	BE EF	03	06 00	31 D3	02 00	01 20	00 00	
	l lr	crement	BE EF	03	06 00	57 D3	04 00	01 20	00 00	
Volume	-		BE EF			86 D2	0		FE00500 R	

TECHNICAL - 8

Command data chart

Namaa		\= avetien type		Lleader					Command data				
Names		Operation type			Header			CRC	Action	ction Type Setting code 01 00 02 20 00 00 01 00 02 20 01 00 02 01 00 02 20 00	g code		
	Set	Normal	BE	EF	03	06 0	ე0	46 D3	01 C	00	02 20	00	00
Mute	Sec	Mute	BE	EF	03	06 0	ე0	D6 D2	01 0	00	02 20	01	00
'		Get	BE	EF	03	06 0	00	75 D3	02 (00	02 20	00	00
		Get	BE	EF	03	06 0	00	89 D2	02 (00	03 20	00	00
Brightness		Increment	BE	EF	03	06 0	JO	EF D2	04 0	00	03 20	00	00
		Decrement	BE	EF	03	06 0	JO	3E D3	05 0	00	03 20	00	00
		Get	BE	EF	03	06 0	00	FD D3	02 0	00	04 20		
Contrast		Increment	BE	EF	03	06 0	00	9B D3	04 0	00	04 20	00	00
!		Decrement	BE	EF	03	06 0	JO	4A D2	05 (00	Type Setting (1) 02 20 00 0 02 20 01 0 02 20 00 0 03 20 00 0 03 20 00 0 04 20 00 0 04 20 00 0 05 20 00 0 05 20 00 0 06 20 00 0 06 20 00 0 07 20 00 0 07 20 00 0 08 20 00 0 08 20 00 0 08 20 00 0 08 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 20 00 0 09 21 00 0 00 21 00 0	00	
		Get	BE	EF	03	06 0	00	01 D2	02 (00	02 20 00 00 00 00 00 00 00 00 00 00 00 0	00	
Color Balance R		Increment	BE	EF	03	06 0	00	67 D2	04 0	00	05 20	00	00
Daiance		Decrement	BE	EF	03	06 0	00	B6 D3	05 0	00	Type S 02 20 02 20 03 20 03 20 04 20 04 20 05 20 05 20 06 20 06 20 07 20 07 20 08 20 08 20 08 20 09 20	00	00
		Get	BE	EF	03	06 0	00	45 D2	02 0	00	06 20	ype Setting or 22	00
Color Balance B		Increment	BE	EF	03	06 0	00	23 D2	04 0	00	06 20	00	00
Dalalice		Decrement	BE	EF	03	06 0	00	F2 D3	05 0	01 00 02 20 0 01 00 02 20 0 02 00 02 20 0 02 00 02 20 0 02 00 03 20 0 05 00 03 20 0 02 00 04 20 0 05 00 04 20 0 05 00 04 20 0 05 00 05 20 0 04 00 05 20 0 05 00 05 20 0 04 00 05 20 0 04 00 06 20 0 02 00 06 20 0 04 00 06 20 0 02 00 07 20 0 04 <	00	00	
		Get	BE	EF	03	06 0	00	B9 D3	02 () 0	07 20	06 20 00 00 00 00 00 00 00 00 00 00 00 00	00
Keystone_V		Increment	BE	EF	03	06 0	00	DF D3	04 () 0	07 20	00	00
-		Decrement	BE		03		00	0E D2	. /		00		
		4:3, Full	-	_	03		00	9E D0	_	-			
'	Set				03		00	0E D1			-10	-	
Aspect	1	Small			03		00	FE D1		-		_	
		Get			03	06 0		AD D0				_	
	\vdash	Default			03		00	62 D1					
Display	Set		BE		03		00	F2 D0				_	
Position at 16 : 9 or Small	1	Тор	BE		03		00	02 D0	ļ				
16:50 0000	\vdash	Get			03	06 0	• •	51 D1	ļ				
		Get	BE		03	06 0		0D 83	-		02 20		
V.Position	\vdash	Increment			03		00	6B 83					
	\vdash	Decrement			03		00	BA 82	<u> </u>	-			
	\vdash	Get	BE		03	06 0		F1 82					
H.Position	\vdash	Increment			03		00	97 82	ļ		_	-	
/	\vdash	Decrement			03	06 0	• •	46 83	ļ		_	-	
	\vdash	Get	_		03		00	B5 82	-		_	_	
H.Size	\vdash	Increment	BE		03	06 0		D3 82			_	-	
YourDLP.co	m	Decrement	BE		03	06 0	\rightarrow	02 83	_	\rightarrow			
Sponsored by	DM.	Get			03		00	49 83	_	\rightarrow		_	
H.Phase	4.	Increment			03		00	2F 83		-		-	
Coun	1	Decrement			03	06 0	_	FE 82	1 63	3 %	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40	
E TRUST	ED	S Get RE		-	R 03 E		00	F1 72	400	-			000 R
Sharpness		Increment	BE		03	06 0		97 72	04 0				
Onarphicos ,	1	,	1				<i></i> ,	<u> </u>	<u> </u>		<u> </u>		

BE EF

Decrement

03

06 00

46 73 05 00

01 22

00 00

Command data chart

Names		Incretion tune		Header		Command data				
Names	Operation type			neader		CRC	Action	Туре	Setting code	
	Get		BE EF	03	06 00	B5 72	02 00	02 22	00 00	
Color	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	
	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	
Video Format		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	
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	
	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00	
WHISPER		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	
COLOR TEMP.	Cat	NORMAL	BE EF	03	06 00	FB F5	01 00	B0 30	00 00	
	Set	LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00	
		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00	



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REGULATORY NOTICES

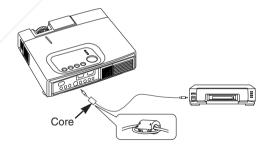
FCC Statement Warning

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

For the Customers in CANADA

(800) 281-8860

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.

REGULATORY NOTICES - 1

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