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HITACHI

Liquid Crystal Projector

CPSX5600W

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.

GEBRUIKSAANWIJZNG
Lees voor het qebruik 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.
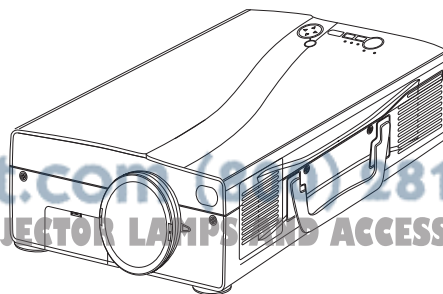
INSTRUÇÕES DO PROPRIETÁRIO
Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do usuário.

TECHNICAL

REGULATORY NOTICES

ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

NEDERLANDS

NORSK

PORTGÊS

TECHNICAL

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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ENGLISH

CONTENTS

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.
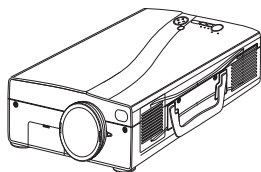
Projector

Power Cord (US Type)

Power Cord (UK Type)

Power Cord (Europe Type)

User's Manual (this manual)
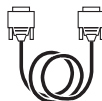
RGB Cable
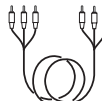
Video/Audio Cable (with white lead)
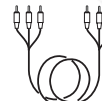
Component Video Cable (with green lead)

Safety Instructions

Mouse cable (PS/2)

Batteries for Remote Control Transmitter

Remote Control Transmitter

FixYourDLP.com

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

BEFORE USE (continued)

Part Names

ENGLISH

TEMP Indicator

LAMP Indicator

STANDBY/ON Button
(STANDBY/ON Indicator)

VIDEO Button

RGB Button

KEYSTONE
Button

MENU Button

RESET Button

Control Panel
(Refer to P.9 "OPERATIONS")

Remote Control Sensor

Lens

AC Inlet
(to Power Cord)

Power Switch

Lens Cap

Control Panel

Ventilation Openings
(exhaust)

Carrying Handle

Air Filter and Intake
for the Cooling Fan

Foot Adjuster

Front/Right View

Remote Control Sensor

Speaker

Terminal Panel
(Refer below)

Rear/Left View

COMPONENT VIDEO
Y Terminal

C$_B$/P$_B$ Terminal

C$_R$/P$_R$ Terminal

VIDEO Terminal

VIDEO AUDIO IN
R Terminal

L/MONO Terminal

AUDIO OUT Terminal

RGB AUDIO IN
RGB 1/DVI Terminal

RGB 2 Terminal

DVI Terminal

RGB IN 1 Terminal

RGB IN 2 Terminal

RGB OUT Terminal

CONTROL Terminal

S-VIDEO Terminal

USB Terminal

Terminal Panel

BEFORE USE (continued)

Part Names (continued)

STANDBY/ON Button

VIDEO Button

Disk Pad

Used to operate the mouse shift function and left click function.

AUTO Button

MENU Button

MENU SELECT Button

Used to click the left mouse button.

▲ , ◄ , ► , ▼ Button

Used to operate the mouse shift function.

POSITION Button

MAGNIFY Button

BLANK Button

LASER Button

RGB Button

MOUSE / RIGHT Button

Used to click the right mouse button.

KEYSTONE Button

RESET Button

Used to click the right mouse button.

FREEZE Button

PinP Button

MUTE Button

VOLUME Button

REMOTE CONTROL TRANSMITTER
(Refer to P.9 "OPERATIONS")

⎕ These functions works when the mouse control function is activated. Remember, the POSITION, BLANK ON and MENU ON functions disable the mouse control function.

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

AVOID EXPOSURE-
LASER RADIATION IS
EMITTED FROM THIS
APERTURE

CAUTION

LASER RADIATION-
DO NOT STARE INTO BEAM
WAVE LENGTH: 650nm
MAX . OUTPUT: 1mW
CLASS 2 LASER PRODUCT

RADIAZIONI LASER
NON GUARDARE NEL RAGGIO LUCE
APPARECCHIO LASER DI CLASSE 2
RAYONNEMENT LASER   MANUFACTURED
NE PAS REGARDER DANS
LE FAISCEAU APPAREIL
A LASER DE CLASSE 2
LASER STRAHLUNG   PLACE OF
NICHT IN DEN STRAHL   MANUFACTURER▲
BLICKEN LASER KLASSE2   MADE IN JAPAN

IEC60825-1:1993+A1:1997

NOTE To prevent any malfunction;
• Do not give the remote control transmitter any physical impact. Take care not to drop.
• Do not place the heavy objects on the remote control transmitter.
• Do not wet the remote control transmitter or place it on any wet object.
• Do not place the remote control transmitter close to the cooling fan of the projector.
• Do not disassemble the remote control transmitter in case of malfunction. Please bring it to the service station.

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BEFORE USE (continued)

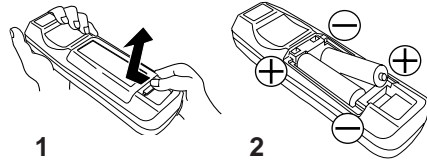## Loading the Batteries

Install the AA batteries into the remote control transmitter.

1. Remove the battery cover.
   Push the knob while lifting up the battery cover.
2. Load the batteries.
   Make sure the plus and minus poles are correctly oriented.
3. Close the battery cover.

1   **2**

⚠ <u>CAUTION</u> **• Use only the specified batteries with this remote control transmitter. Also, do not mix new and old batteries. This could cause in battery cracking or leakage, which could result in fire or personal injury.**
• When loading the batteries, make sure the plus and minus terminals are correctly oriented as indicated in the remote control transmitter. Incorrect orientation could cause battery cracking or leakage, which could result in personal injury or pollution of the surrounding environment.
• 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 batteries from the remote control transmitter.

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

INSTALLATION

## Installation of the Projector and Screen

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

The projection distances shown in the table below
are for full size (1365 x 1024 dots).
a: Distance from the projector to the screen. (±10%)

Screen

Table 1. Installation Reference

| Screen size [inches (m)]	a [inches (m)]	
	Min.	Max.
40 (1.0)	65 (1.6)	85 (2.2)
60 (1.5)	98 (2.5)	127 (3.2)
80 (2.0)	131 (3.3)	170 (4.3)
100 (2.5)	164 (4.2)	213 (5.4)
120 (3.0)	196 (5.0)	255 (6.5)
150 (3.8)	246 (6.2)	319 (8.1)
200 (5.0)	328 (8.3)	426 (10.8)

Top View

Lens center

a   **Side View**
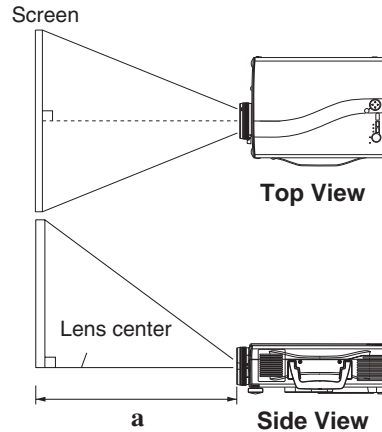
⚠ **CAUTION • Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.**
• When you fix this unit with a metal tool and the like, you must connect it with ground wire; otherwise, fire or electric shock can result.
Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using an optional three-core power-supply cord.
• 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 become the cause of 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.).

Angle Adjustment

Use the foot adjusters on the bottom of the
projector to adjust the projection angle. It is
variable within 0˚ to 8˚ approximately.
1. Lift up the front side of the projector, and
   pressing the foot adjuster button, adjust the
   projection angle.
2. Release the button to lock at the desired angle.
3. Use the foot adjusters for fine adjustment, Do
   not force the foot adjuster screws. This could
   damage the adjusters or cause the lock to fail.
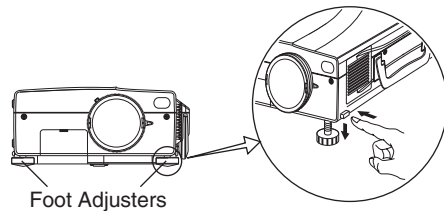
Foot Adjusters
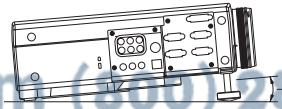
Variable within the range of approximately 0° - 8°

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

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INSTALLATION (continued)

Cabling

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

Table 2. Cabling

Function	Terminal	Cable
Analog RGB input	**RGB IN 1**	Accessory RGB cable or optional RGB cable with D-sub 15-pin shrink jack and inch thread screws
	RGB IN 2	
Analog RGB output	**RGB OUT**	
DVI input	**DVI**	Optional DVI cable with inch thread screws
Audio input (from the computer)	**RGB AUDIO IN [RGB 1 / DVI]** (interlocked with RGB IN 1 or DVI)	Optional audio cable with stereo mini jack
	RGB AUDIO IN [RGB 2] (interlocked with RGB IN 2)	
PS/2 mouse control	**CONTROL**	Accessory PS/2 mouse cable
ADB mouse control		Optional ADB mouse cable
Serial mouse control		Optional Serial mouse cable
RS-232C communication		Optional RS-232C cable
USB mouse control	**USB**	Optional USB cable
S-video input	**S-VIDEO**	Optional S-video cable with mini DIN 4-pin jack
Video input	**VIDEO**	Accessory video/audio cable
Component video input	**COMPONENT VIDEO [Y]**	Accessory component video cable
	COMPONENT VIDEO [CB/PB]	
	COMPONENT VIDEO [CR/PR]	
Audio input (from video equipment)	**AUDIO [L / MONO]**	Accessory video/audio cable or optional audio cable with RCA jack
	AUDIO [R]	
Audio output	**AUDIO OUT**	Optional audio cable with stereo mini jack

⚠ **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 cable.
• 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 DVI input, the computer may need some settings. See the manuals of the computer for details.
• Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
• Refer to the "TECNICAL" section for the pin assignment of connectors and RS-232C communication data.
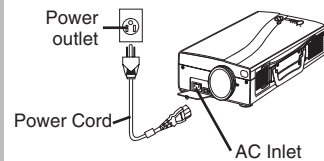• When the DVI terminal is used, the RGB OUT terminal may not function.
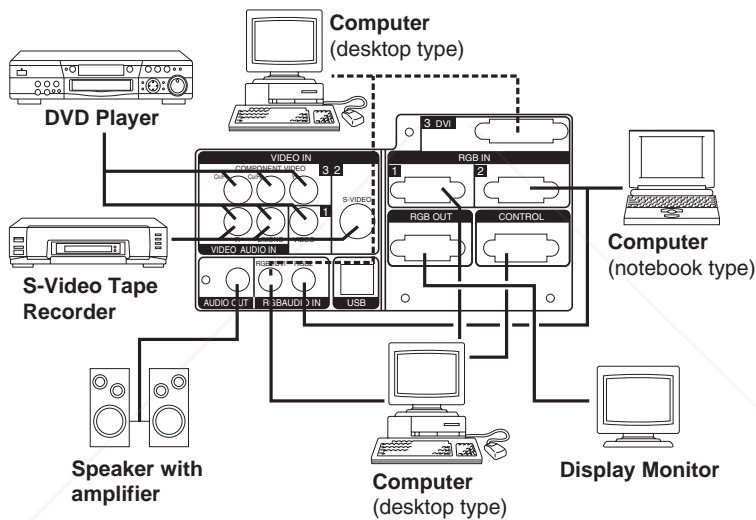
INSTALLATION (continued)

Power Connection

Use the correct one of the enclosed power cords 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 contact failure.**

Power outlet

Power Cord

AC Inlet

Example of system setup

Computer (desktop type)

DVD Player

S-Video Tape Recorder

3 DVI

VIDEO IN
COMPONENT VIDEO 3 2
CB/PB CR/PR Y
S-VIDEO
1
VIDEO AUDIO IN

RGB IN
1 2

RGB OUT CONTROL

Computer (notebook type)

RGB IN
AUDIO OUT RGBAUDIO IN USB

Speaker with amplifier

Computer (desktop type)

Display Monitor

NOTE • When connecting with notebook computer, set to valid the 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 IN 1 terminal (DDC 1/2B compatible), or by connecting an optional DVI cable with DVI terminal (DDC 2B compatible). Plug & play may not operate by other connecting.

NOTE • Plug & play is a system configured with peripheral equipment including a computer and 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. Use the RGB IN 2 terminal if plug & play does not operate correctly.

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OPERATIONS

STANDBY/ON Button
(STANDBY/ON Indicator)

STANDBY/
ON Button

Power Switch

Zoom Knob

Focus Ring

Lens cap
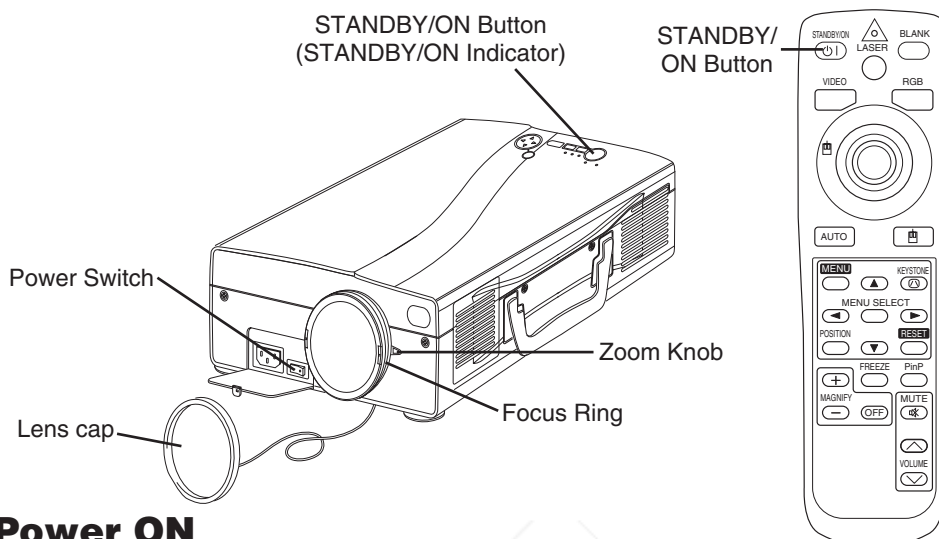
Power ON

1. Check that the power cord is connected correctly.
2. Set the power switch to [|]. The standby mode is selected, and the STANDBY/ON indicator is turned to orange.
3. Press the STANDBY/ON button ⏻ on the control panel or the remote control transmitter. Warm-up begins and the STANDBY/ON indicator blinks in green.
4. The STANDBY/ON indicator ceases blinking and turns to green when power is on. Remove the lens cap.
5. Adjust picture size using the Zoom Knob.
6. Adjust focus using the Focus Ring .

Power OFF

1. Press the STANDBY/ON button ⏻ 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 message indication, press the STANDBY/ON ⏻ button again. The projector lamp is extinguished and lamp cooling begins. The STANDBY/ON indicator blinks orange during lamp cooling. Pressing the STANDBY/ON button ⏻ has no effect while the STANDBY/ON indicator is blinking.
2. The system assumes the Standby mode when cooling is complete, and the STANDBY/ON indicator ceases blinking and changes to orange. Check that the indicator is orange and set the Power switch to [O].
3. The STANDBY/ON indicator is extinguished when power is off. Attach the lens cap. Put the Lens cap to the lens properly. In order to do it, keep pushing two knobs on the lens cap, then fit it to the lens holding the cap in horizontal position.

⚠ **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, follow the above-mentioned procedure for turning power off. Incorrect procedure will reduce the life of the projector lamp and LCD panel.
• 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.

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OPERATIONS (continued)

Basic Operation

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

Table 3 . Basic Operation

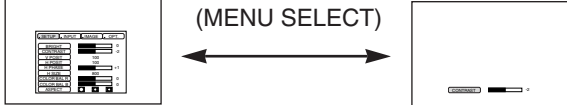| Item	Description
INPUT SELECT (*)	**Select RGB Input :** Press the RGB button. VIDEO/S-VIDEO/COMPONENT VIDEO → RGB IN 1/RGB IN 2/DVI RGB IN 1 → RGB IN 2 → DVI (→ RGB IN 1) **Select Video Input :** Press the VIDEO button. RGB IN 1/RGB IN 2/DVI → VIDEO/S-VIDEO/COMPONENT VIDEO VIDEO → S-VIDEO → COMPONENT VIDEO (→ VIDEO) • The selected signal name is displayed for approximately 3 seconds when the input signal is changed.
POSITION	**Set/Clear Position Adjustment Mode :** Press the POSITION button. The [ ] icon is displayed in the POSITION mode. **Image Position Adjustment:** Press the , , 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. • , , and buttons may operate as the mouse control button. Refer to page 4.
RESET (*)	**Initialise Each Item :** Select an item and press the RESET button. **Initialise 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, WHISPER and H PHASE. • The RESET button may operate as the mouse control button. Refer to page 4.
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. **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 [❙❙] 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, KEYSTONE, or by changing the input signal. • Do not forget to clear frozen static images.

NOTE • Use the remote control transmitter at a distance of approximately 5m 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 control transmitter.

OPERATIONS (continued)

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

Table 3. Basic Operation (continued)

Item	Description
VOLUME	**Volume Adjustment :** Press the VOLUME ⌃ / ⌄ button.
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 10 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 10 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 ⌃ and ⌄ 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". • The MENU SELECT button may operate as the mouse control button. Refer to page 4. **Normal menu**　　　　　　**Single menu** （MENU SELECT）
P.IN P. MODE	**Select Mode of P.IN P. Display :** Press the PinP button. 　Small → Large → P.IN P. off (→ Small) • Valid only at RGB IN 1, RGB IN 2 or DVI input.
KEYSTONE	**Set / Clear KEYSTONE Mode :** Press the KEYSTONE ⌂ button. **Select KEYSTONE Mode :** Press the ⌃ / ⌄ button in the KEYSTONE mode.　Vertical ⌃ ↔ ⌄ Horizontal **Adjust KEYSTONE :** Press the ◄ / ► button.

OPERATIONS (continued)

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 ⒜ and ⒱ buttons, and start operation. Use the Single menu to reduce menu size (see Table 3, MENU SELECT).
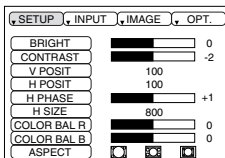
**RGB IN 1
RGB IN 2
DIGITAL**
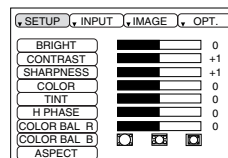
**VIDEO
S-VIDEO
COMPONENT VIDEO**

Table 4. Setup Menu

Item	Description	RGB IN 1 RGB IN 2	DIGTAL	VIDEO S-VIDEO COMPONENT
BRIGHT	**Adjustment:** Dark ◁ ↔ Light ▷	✔	✔	✔
CONTRAST	**Adjustment:** Weak ◁ ↔ Strong ▷	✔	✔	✔
V POSIT	**Adjustment:** Down ◁ ↔ Up ▷	✔	-	-
H POSIT	**Adjustment:** Left ◁ ↔ Right ▷	✔	-	-
H PHASE	**Adjustment:** Left ◁ ↔ Right ▷ • Adjust to eliminate flicker.	✔	-	✔
H SIZE	**Adjustment:** 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	**Adjustment:** Soft ◁ ↔ Clear ▷	-	-	✔
COLOR	**Adjustment:** Light ◁ ↔ Dark ▷	-	-	✔
TINT	**Adjustment:** Red ◁ ↔ Green ▷ • Valid only when NTSC or NTSC 4.43 signal is received.	-	-	✔
COLOR BAL R	**Adjustment:** Light ◁ ↔ Dark ▷	✔	✔	✔
COLOR BAL B	**Adjustment:** Light ◁ ↔ Dark ▷	✔	✔	✔
ASPECT	**Select Image Aspect Ratio :** Full [ ] ◁ ↔ ▷ 16:9[ ]　◁ ↔ ▷ Real [ ] **Select Position of Image:** Press the ⒱ button while 16:9[ ] is selected. Center → ⒱ Down → ⒜ Up (→ Center ⒱)	✔	✔	-
	Select Image Aspect Ratio: 4:3[ ] ◁ ↔ ▷ 16:9[ ] ◁ ↔ ▷ 4:3 small[ ] **Select Position of Image :** Press the ⒱ button while 16:9[ ] / 4:3 small[ ] is selected. Center → ⒱ Down → ⒜ Up (→ Center ⒱) • 4:3 small may not be displayed correctly with some input signals.	-	-	✔

OPERATIONS (continued)

Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the ⊙ and ⊙ buttons, and start or stop operation with the ▶ and ◀ buttons. The function indicated (**) are effective on video input mode only, not on RGB input mode, except in the P.IN P. window on RGB input mode.

```
┌─────────────────────────────────┐
│ SETUP   INPUT   IMAGE    OPT.    │
│                                  │
│    AUTO      ▶    EXECUTE        │
│    RGB       ▶  ▶ CANCEL         │
│    VIDEO     ▶                   │
│  Progressive ▶                   │
│    BLACK                         │
│    HDTV      ▶                   │
│                                  │
└─────────────────────────────────┘
```
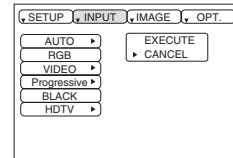
ENGLISH

Table 5. Input Menu

Item	Description
AUTO	**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. **Automatic Adjustment at Video Input:** Select the EXECUTE with the ⊙ button. A signal type appropriate for the input signal is selected automatically when EXECUTE is selected automatically. Valid only when AUTO is set for VIDEO on the menu. • 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 (**)	**Select Video Signal Type:** Select the signal type with the ⊙ 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 10 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. Refer to the item HDTV of the OPT. Menu for the signal of HDTV.
BLACK (**)	**Set/Clear Black Enhancement Mode:** Select the TURN ON / TURN OFF with the ⊙ / ⊙ button. When the TURN ON is selected, the black enhancement mode is active and the contrast ratio of the screen for the video input will be raised by making black level darker.
Progressive (**)	**Select Progressive Mode:** Select the mode suitable for the input signal with the ⊙ and ⊙ buttons. The TV mode and the FILM mode convert the interlaced video signal into the progressive signal. The FILM mode is adptable 2-3 Pull-Down system to the conversion. • Use this function to raise resolution, at the interlaced video input except HDTV signal.
HDTV	**Select HDTV mode:** Select the 1035i mode or 1080i mode suitable for the input signal with the ⊙ / ⊙ button.

OPERATIONS (continued)

Image Menu

The following adjustments and settings are available when IMAGE is selected on the menu. Select an item with the ⓐ and ⓥ buttons, and start or stop operation with the ▶ and ◀ buttons.

```
SETUP   INPUT   IMAGE   OPT.

  BLANK
  MIRROR       ▶
  START UP     ▶
  P. IN P.POSIT▶
  P.IN P.INPUT▶
  GAMMA
```
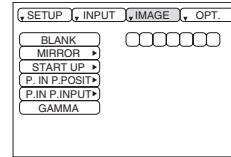
Table 6. Image Menu

Item	Description
BLANK	**Select Blank Screen Color:** Select 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	**Select Mirror Status:** Select mirror status with the ⓐ and ⓥ buttons.
START UP	**Setup Initial Screen Display:** Select TURN ON with the ⓐ button. **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.
P. IN P. POSIT	**Select Position of P. in P. Display :** Press the ⓐ or ⓥ button. ▣ ⓐ↔ⓥ ▤ ⓐ↔ⓥ ▥ ⓐ↔ⓥ ▦ • Valid only at RGB IN 1, RGB IN 2 or DVI input.
P. IN P. INPUT	**Select signal of P. in P. Display :** Press the ⓐ or ⓥ button. VIDEO ⓐ↔ⓥ S-VIDEO ⓐ↔ⓥ COMPONENT
GAMMA	**Select Gamma mode:** Select the gamma mode with the ⓐ / ⓥ button. NORMAL ⓐ↔ⓥ CINEMA ⓐ↔ⓥ DYNAMIC

OPERATIONS (continued)

Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the ▲ and ▼ buttons, and start or stop operation with the ▶ and ◀ buttons. The function indicated (**) are effective on video input mode only, not on RGB input mode, except in the P.IN P. window on RGB input mode.
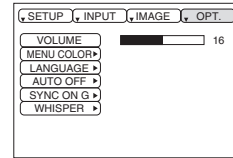
ENGLISH

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	**Select Menu Display Language:** Select with the ▲ and ▼ buttons.
AUTO OFF	**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	**SYNC ON G Valid:** Select TURN ON with the ▲ button. **SYNC ON G Invalid:** Select TURN OFF with the ▼ 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	**Set / Crear WHISPER Mode:** Press the ▲ and ▼ button.When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic moise level from the unit is reduced, and brightness level on screen is a little lower.

OPERATIONS (continued)

No Signal Menu

The same adjustments and settings are available as 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.

VOLUME	▶		16
BLANK	▶	
MIRROR	▶	
START UP	▶	
MENU COLOR	▶	
LANGUAGE	▶	
AUTO OFF	▶	
SYNC ON G	▶	
WHISPER		
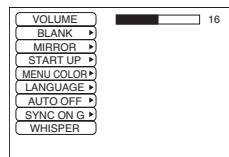
Table 8. No Signal Menu

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 ► or ◄ button. **Select Mirror Status:** Select the mirror status with the ▲ and ▼ buttons.
START UP	**Operation Start/Stop:** Press the ► or ◄ 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 ► or ◄ button. **Select Menu Display Language:** Select the language with the ▲ 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 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.
SYNC ON G	**Operation Start/Stop:** Press the ► or ◄ button. **SYNC ON G Valid:** Select the TURN ON with the ▲ button. **SYNC ON G Invalid:** Select the TURN OFF with the ▼ 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.
WHISPER	**Operation Start/Stop:** Press the ► or ◄ button. **Set / Crear WHISPER Mode:** Press the ▲ and ▼ button.When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic moise level from the unit is reduced, and brightness level on screen is a little lower.

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.

WARNING • **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.**
• **Premature lamp failure MAY be caused by an electronic component in the projector and not necessarily the lamp. If unsure contact your local service center.**
• **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

Reflector   Front glass
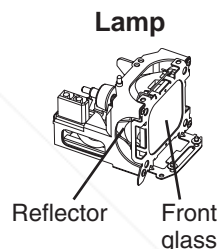
Lamp Life
Projector lamps have a finite life. The image will become darker, and hues will become weaker, after a lamp has been used for a long period of time.
Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message appears when the projector is switched ON. See Table 9 of P.20 and Table 10 of P.21.

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.

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.
4. Loosen the two screws as shown in the diagram, and remove the lamp cover.
5. Loosen the two screws, and gently remove the lamp while holding the grips. Touching the inside of the lamp case may result in uneven coloring.
6. Install the new lamp and tighten the two screws firmly. Also steadily push the opposite side of the screwed lamp into the unit.
7. Replace the lamp cover in position and tighten the screw firmly.
8. Gently turn the projector right-side up.
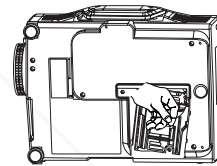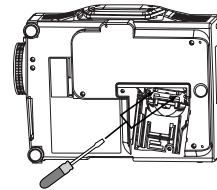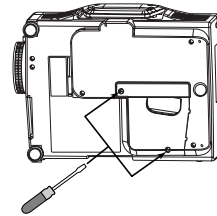
⚠ **CAUTION** • **Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.**
• **Do not use the projector with the lamp cover removed.**

Resetting the Lamp Timer
Reset the lamp timer after replacing the lamp. When the lamp has been replaced after the LAMP indicator is red, or the CHANGE THE LAMP message is displayed, complete the following operation within ten minutes of switching power ON. 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 □ → 0 ■ 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.
• An air filter is attached to the optional lamp. Replace the filter after replacing the lamp.

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MAINTENANCE (continued)

Air Filter
Replacing the Air Filter
Replace the air filter if contamination cannot be removed, or if it is damaged.

CP-SX5600

Filter box

1. Remove the filter lid.
2. Pull and remove the old filter from the filter box.
3. Insert the new filter to the filter box. Push left and right edges of the filter with fingers in order to fit the filter to the box properly. Check that there is no gap between the filter and plastics at top, left and right side edge of the filter.
4. Set the filter lid.

Filter Lid
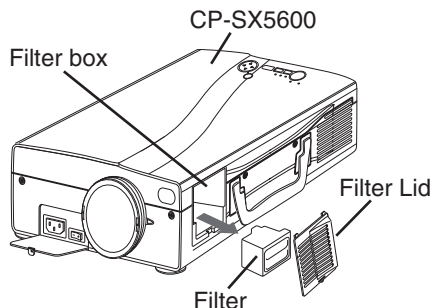
Filter

Cleaning the air Filter
The air filter should be cleaned as described below at intervals of approximately 300 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.

⚠ **CAUTION** • **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 "Option 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.

⚠ **CAUTION** • **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 a message appears.

Table 9. OSD Messages

Message	Contents
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. *1)	The message shown at left appears after the lamp has been used for more than 1300 hours. The lamp is approaching the end of its life. Power is switched OFF automatically when the lamp reaches the end of its life. Prepare a new lamp for installation. 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 ** hr. *1)	The lamp will reach the end of its life in ** hours. 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 lamp has reached the end of its life. Power will be switched OFF in a few minutes. 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.

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

STANDBY/ON 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.
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.
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.
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.

NOTE   *1) When the internal temperature becomes excessive power is switched OFF automatically for safety reasons, and the indicator is extinguished. Set the power switch to [○] 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 turned on.	The main power switch is not turned on.	Turn on the main power switch.	8,9
	The power cord is disconnected.	Plug the power cord into an AC power outlet.	
No video or audio.	The input is not correctly set.	Use the projector or remote control transmitter to set.	10
	No signal input.	Connect correctly.	7,8
Video is present but no audio.	The projector is not correctly connected.	Connect correctly.	7,8
	The volume is set to minimum.	Press VOLUME ⌒ on the remote control or display the menu screen and adjust the volume.	11,15
	Mute is turned on.	Press the MUTE ⌖ button.	11
Audio is present but no video.	The projector is not correctly connected.	Connect correctly.	7,8
	The brightness adjustment knob is rotated fully clockwise.	Select BRIGHT with the MENU button and the press the ▷ button.	12
	The lens cap is still attached.	Remove the lens cap.	9
Colors are pale and color matching is poor.	Color density and color matching are not correctly adjusted.	Adjust the video.	12
Images are dark.	Brightness and contrast are not correctly adjusted.	Adjust the video.	12
	The lamp is nearing the end of its service life.	Replace with a new lamp.	17
	WHISPER mode is set.	Clear WHISPER mode.	15
Video is blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	9,12

SPECIFICATIONS

Table 12. Specifications

Item			Specification
Product name			Liquid crystal projector
Liquid crystal panel	Panel size		2.3 cm (0.9 type)
	Drive system		TFT active matrix
	Pixels		1,397,760 pixels (1365 horizontal x 1024 vertical)
Lens			Zoom lens F=2.7 ~ 3.1 f=38.0 ~ 49.0 mm
Lamp			220 W UHB
Speaker			1W
Power supply			AC100 ~ 120V, 4.0A / AC220 ~ 240V, 1.8A
Power consumption			360W
Temperature range			0 ~ 35°C (Operating)
Size			250 (W) x 103 (H) x 335 (D) mm
Weight (mass)			5.6 kg
RGB signal input	RGB IN	1	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
		2	
	DVI		TMDS, DC: 150~1200 mV / AC: 1.56 Vp-p TTL Level (Positive/Negative)
	AUDIO IN	RGB1 DVI RGB2	200mVrms, 20 kΩ (max. 3.0Vp-p) Stereo mini jack
Video signal input	VIDEO		1.0Vp-p, 75Ω terminator RCA jack
	S-VIDEO		Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (burst signal), 75Ω terminator Mini DIN 4-pin jack
	COMPONENT VIDEO	Y	1.0 Vp-p, 75 Ω Terminator (Positive)
		C_B/C_R	0.7 Vp-p, 75 Ω Terminator (Positive)
		P_B/P_R	0.7 Vp-p, 75 Ω Terminator (Positive)
	AUDIO	L R	200mVrms, 20 kΩ (max. 3.0Vp-p) RCA jack
Signal output	RGB OUT		Video: Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack
	AUDIO OUT		200mVrms, output impedance 1 kΩ (max. 3.0Vp-p) Stereo mini jack
Control functions	CONTROL		D-sub 15-pin shrink plug
	USB		USB jack (B type)
Optional Parts			Lamp: DT00421 Air Filter: MN04291 * For others, consult your dealer.

NOTE • This specifications are subject to change without notice.

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

335

250

103

118.5
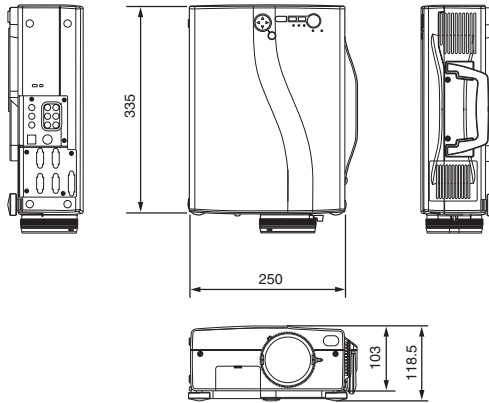
Unit : mm

Signal Connector Pin Assignment

1. D-sub 15-pin Shrink Connector (RGB IN 1/RGB IN 2/RGB OUT)

Pin No	Signal	Pin No	Signal	Pin No	Signal
1	Video input Red	9	-		RGB IN 1: SCL(DDC)
2	Video input Green	10	Ground	15	RGB IN 2: -
3	Video input Blue	11	-		RGB OUT: -
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		

2. Digital Receptacle Connector (DIGITAL)

Pin No	Signal	Pin No	Signal	Pin No	Signal
1	T.M.D.S. Data 2 -	11	T.M.D.S. Data 1 / 3 Shield	21	-
2	T.M.D.S. Data 2 +	12	-	22	T.M.D.S. Clock Shield
3	T.M.D.S. Data 2 / 4 Shield	13	-	23	T.M.D.S. Clock +
4	-	14	+5V Power	24	T.M.D.S. Clock -
5	-	15	Ground (+5V, Analog H/V Sync.)		
6	DDC Clock	16	Hot-Plug Sense		
7	DDC Data	17	T.M.D.S. Data 0 -		
8	Analog V. Sync.	18	T.M.D.S. Data 0 +		
9	T.M.D.S. Data 1 -	19	T.M.D.S. Data 0 / 5 Shield		
10	T.M.D.S. Data 1 +	20	-		

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

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

TECHNICAL

TECHNICAL - 1

TECHNICAL (continued)

Example of computer signal

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

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 the case, it is recommended to reduce the resolution and / or reflesh rate.

TECHNICAL - 2

TECHNICAL (continued)

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.
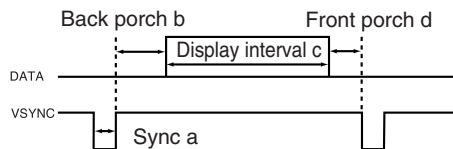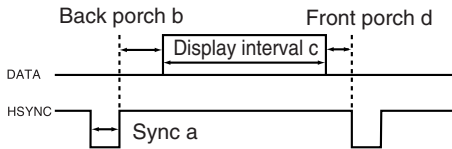
Computer / Signal	Horizontal signal timing (µs)				Computer / Signal	Vertical signal timimg (lines)			
	a	b	c	d		a	b	c	d
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	400	1
VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10
Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3
VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	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
1152×864 (75Hz)	1.2	2.4	10.7	0.6	1152×864 (75Hz)	3	32	864	1
1280×960 (60Hz)	1.0	2.9	11.9	0.9	1280×960 (60Hz)	3	36	960	1
1280×1024 (60Hz)	1.0	2.3	11.9	0.4	1280×1024 (60Hz)	3	38	1024	1
1280×1024 (75Hz)	1.1	1.8	9.5	0.1	1280×1024 (75Hz)	3	38	1024	1
1280×1024 (85Hz)	1.0	1.4	8.1	0.4	1280×1024 (85Hz)	3	44	1024	1
1600×1200 (60Hz)	1.2	1.9	9.9	0.4	1600×1200 (60Hz)	3	46	1200	1

TECHNICAL

TECHNICAL (continued)

Connection to the Mouse Control

1. PS/2, ADB or Serial Mouse

(1) Turn off the projector and computer, and connect the two units with the appropriate cable. For PS/2 mouse control (for IBM and compatible), use the enclosed mouse cable. For others, consult your dealer.

(2) Disconnect the USB cable from the projector if it is connected. Then turn on the projector.

(3) Turn on the computer.

(4) Start the mouse function. If the mouse has not been started, reboot the computer (soft reboot or reboot buttons). Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

2. USB Mouse

(1) Connect the projector and computer with a suitable commercially available USB cable. Consult your dealer to get the cable, if you need.

(2) Start the mouse function. Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

| 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 before the operations described in (1) to (5) above.

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

Refer to the computer hardware manual for detail.

PS/2 Mouse
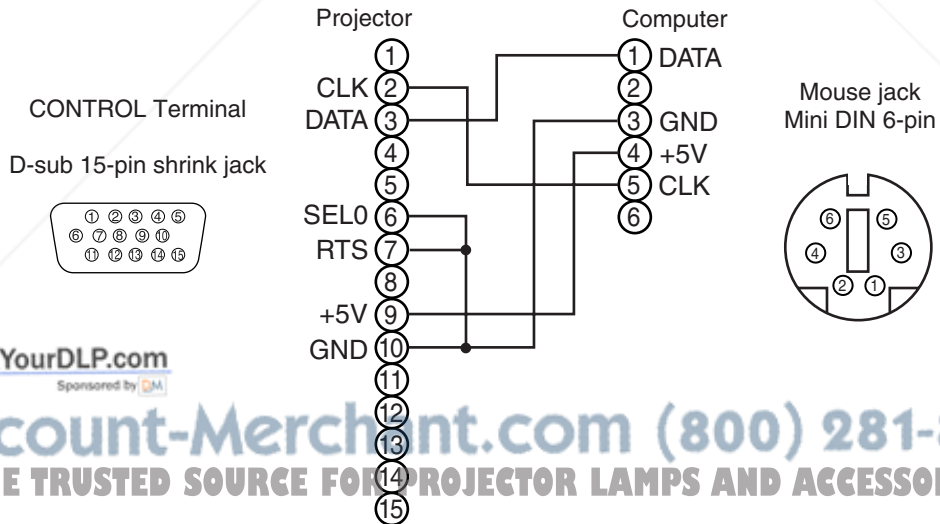
TECHNICAL (continued)

ADB Mouse

Projector   Computer

CONTROL Terminal

D-sub 15-pin shrink jack

1 ADB
2 (POWER ON)
DATA 3 — 3 +5V
4 GND

RTS 7
+5V 9
GND 10

Mouse jack
Mini DIN 4-pin

Serial Mouse

Projector   Computer

CONTROL Terminal

D-sub 15-pin shrink jack

1 CD
2 RD
3 TD
4 DTR
5 GND
SEL0 6 — 6 DSR
RTS 7 — 7 RTS
8 CTS
9 RI
GND 10
TD 14

Mouse jack
D-sub 9-pin

USB Mouse

USB jack
(B type)

Projector   Computer

+5V 1 — 1 +5V
−DATA 2 — 2 −DATA
+DATA 3 — 3 +DATA
GND 4 — 4 GND

USB cable

USB jack
(A type)
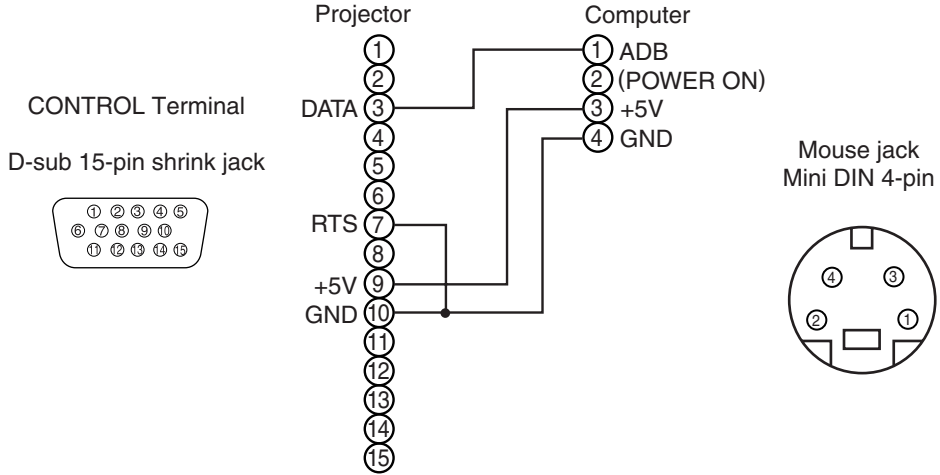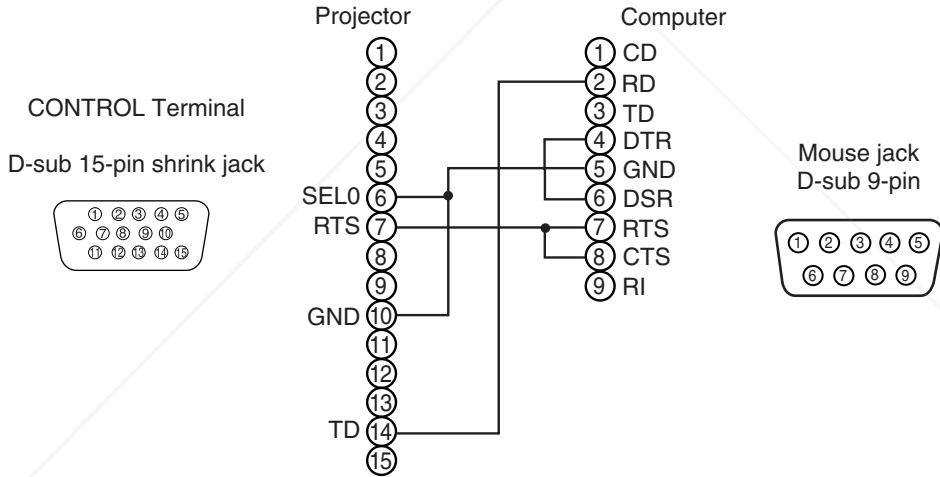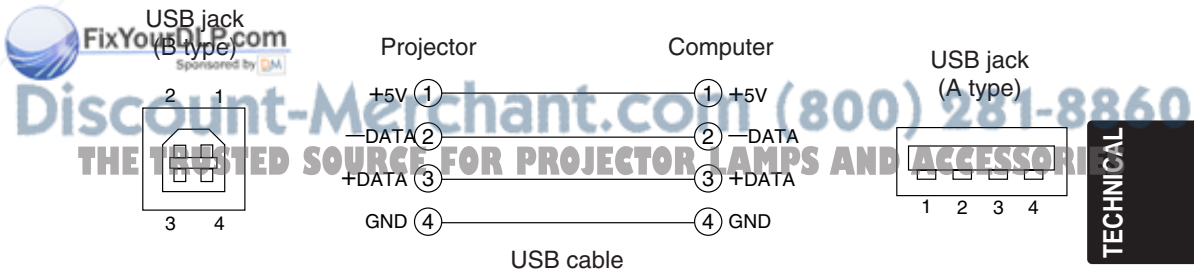
TECHNICAL (continued)

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.

Control jack
D-sub 15-pin shrink jack
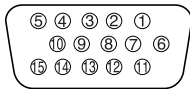
Projector Computer RS-232C jack
D-sub 9-pin
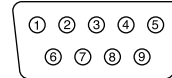
Communications setting

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.

TECHNICAL (continued)

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

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

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

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

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

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

When data sent by the projector cannot be practice
When the command sent by the projector cannot be practiced, the the error code '1cH' +'xxxxH' is
returned.
When the data length is greater than indicated by the data length code, the projector will ignore the
excess data code.
Conversely, when the data length is shorter than indicated by the data length code, an error code
will be returned to the projector.

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

TECHNICAL - 7

TECHNICAL (continued)

Command data chart

Names	Operation type		Header				CRC	Command data		
								Action	Type	Setting code
Blank Color	Set	Red	BE EF	03	06 00	3B D3	01 00	00 30	00 00
		Orange	BE EF	03	06 00	AB D2	01 00	00 30	01 00
		Green	BE EF	03	06 00	5B D2	01 00	00 30	02 00
		Blue	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		Purple	BE EF	03	06 00	FB D1	01 00	00 30	04 00
		White	BE EF	03	06 00	6B D0	01 00	00 30	05 00
		Black	BE EF	03	06 00	9B D0	01 00	00 30	06 00
	Get		BE EF	03	06 00	08 D3	02 00	00 30	00 00
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
Menu Color	Set	Red	BE EF	03	06 00	7F D3	01 00	03 30	00 00
		Orange	BE EF	03	06 00	EF D2	01 00	03 30	01 00
		Green	BE EF	03	06 00	1F D2	01 00	03 30	02 00
		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
		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	0B D2	01 00	04 30	00 00
		Turn OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
	Get		BE EF	03	06 00	38 D2	02 00	04 30	00 00
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
		Japanese	BE EF	03	06 00	37 D4	01 00	05 30	08 00
	Get		BE EF	03	06 00	C4 D3	02 00	05 30	00 00

TECHNICAL (continued)

Command data chart

Names	Operation type		Header				CRC	Action	Type	Setting code
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
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 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
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		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	RGB1	BE EF	03	06 00		FE D2	01 00	00 20	00 00
		RGB2	BE EF	03	06 00		3E D0	01 00	00 20	04 00
		DVI	BE EF	03	06 00		0E D2	01 00	00 20	03 00
		Video	BE EF	03	06 00		6E D3	01 00	00 20	01 00
		SVideo	BE EF	03	06 00		9E D3	01 00	00 20	02 00
		Component	BE EF	03	06 00		AE D1	01 00	00 20	05 00
	Get		BE EF	03	06 00		CD D2	02 00	00 20	00 00
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

Error Status (Example of Return)

00 00	01 00	02 00	03 00
(Normal)	(Cover-error)	(Fan-error)	(Lamp-error)
04 00	05 00	06 00	
(reserved)	(reserved)	(Lamp-Time-over)	

TECHNICAL

TECHNICAL (continued)

Command data chart

Names	Operation type		Header		Command data			
					CRC	Action	Type	Setting code
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
	Get		BE EF	03 06 00	75 D3	02 00	02 20	00 00
Brightness	Get		BE EF	03 06 00	89 D2	02 00	03 20	00 00
	Increment		BE EF	03 06 00	EF D2	04 00	03 20	00 00
	Decrement		BE EF	03 06 00	3E D3	05 00	03 20	00 00
Contrast	Get		BE EF	03 06 00	FD D3	02 00	04 20	00 00
	Increment		BE EF	03 06 00	9B D3	04 00	04 20	00 00
	Decrement		BE EF	03 06 00	4A D2	05 00	04 20	00 00
Color Balance R	Get		BE EF	03 06 00	01 D2	02 00	05 20	00 00
	Increment		BE EF	03 06 00	67 D2	04 00	05 20	00 00
	Decrement		BE EF	03 06 00	B6 D3	05 00	05 20	00 00
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, Full	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
		Real	BE EF	03 06 00	6E D0	01 00	08 20	03 00
	Get		BE EF	03 06 00	AD D0	02 00	08 20	00 00
Display 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

TECHNICAL (continued)

Command data chart

Names	Operation type	Header				CRC	Command data		
							Action	Type	Setting code
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
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
Progressive	Set off	BE EF	03	06 00		4A 72	01 00	07 22	00 00
	TV	BE EF	03	06 00		DA 73	01 00	07 22	01 00
	FILM	BE EF	03	06 00		2A 73	01 00	07 22	02 00
	Get	BE EF	03	06 00		79 72	02 00	07 22	00 00
Black	Set off	BE EF	03	06 00		5E 71	01 00	08 22	00 00
	on	BE EF	03	06 00		CE 70	01 00	08 22	01 00
	Get	BE EF	03	06 00		6D 71	02 00	08 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
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

TECHNICAL

TECHNICAL (continued)

Command data chart

| Names	Operation type		Header				Command data		
						CRC	Action	Type	Setting code
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	03 00
		bottom right	BE EF	03	06 00	F2 23	01 00	01 23	02 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
		Component	BE EF	03	06 00	16 20	01 00	02 23	05 00
	Get		BE EF	03	06 00	75 23	02 00	02 23	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
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

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.

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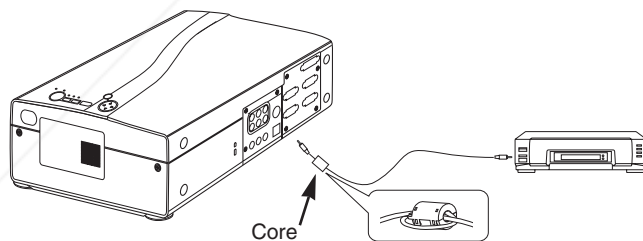
CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
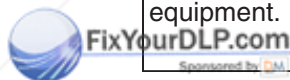
For the Customers in CANADA

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

Pour les utilisateurs au Canada

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

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