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HITACHI

Liquid Crystal Projector

CP-S225/CP-X275

(CP-S225WA/CP-X275WA)

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

BEDIENUNGSANLEITUNG Teil 1 Grundlagen Bitte lessen Sie diese Benutzerhandbuch zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION Vol.1 Fondements Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

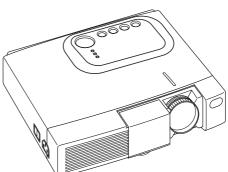
MANUALE D'ISTRUZIONI Vol.1 Informazioni di base Vi preghiamo voler leggere attentamente il manuale d'istruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO Vol.1 Básico Lea cuidadosamente este manual del usuario para poder utilizar corretamente el producto.

GEBRUIKSAANWIJZING Vol.1 Basis Lees voor het qebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK Vol.1 Grunnleggende Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

NSTRUÇÕES DO PROPRIETÁRIO Vol.1 Básico Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do utilizador.





ENGLISH



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LCD Projector CP-S225/CP-X275 USER'S MANUAL Vol.1 (Basic)

Thank you for purchasing this projector.

MARNING • 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. ENGLISH

Pane

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

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

Ultra High Brightness

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

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing

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

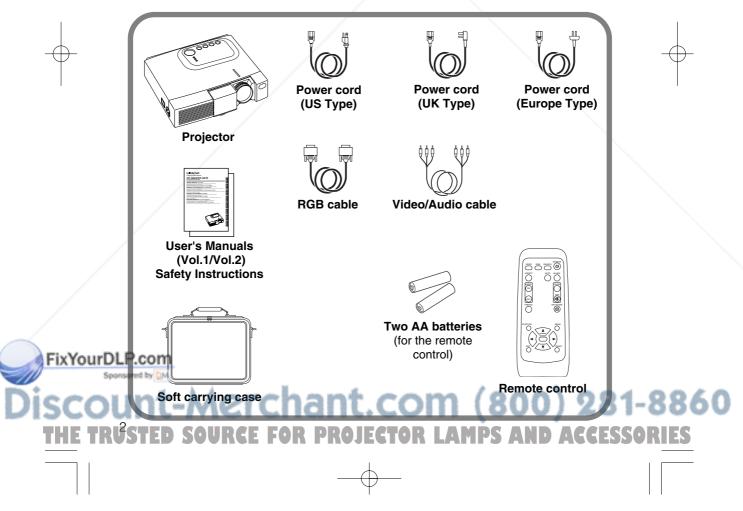
Keystone Distortion Correction

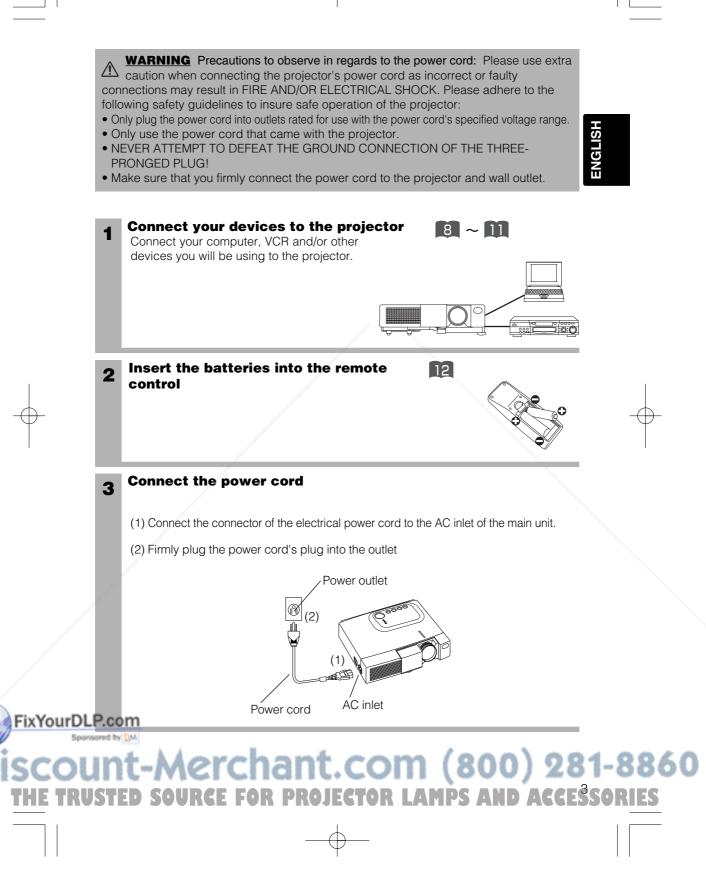
Quick correction of distorted images electrically

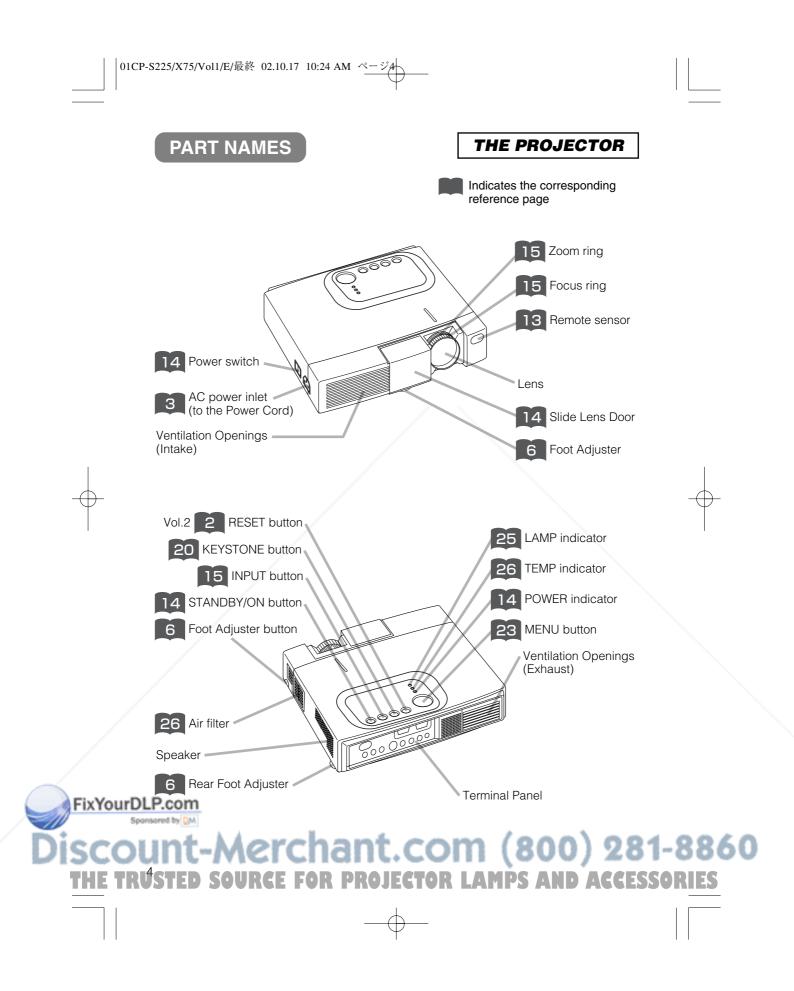
PREPARATIONS

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

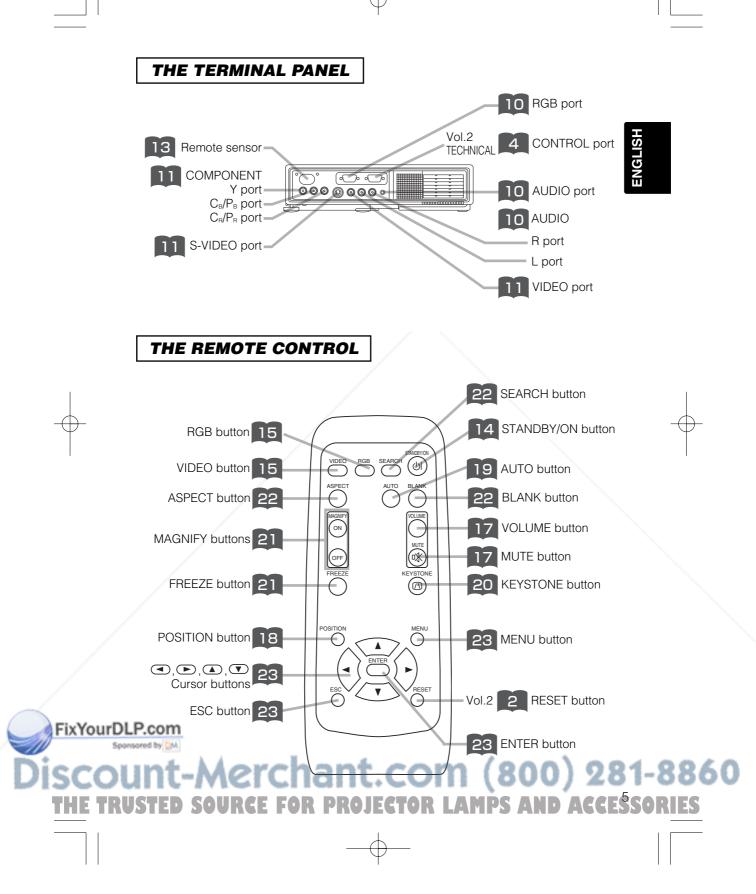
NOTE • Keep the original packing material for future reshipment.











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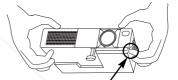
SETTING UP THE PROJECTOR

CAUTION • Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.
 If you press the elevator buttons without holding the projector, the projector might crash down, overturn, smash your fingers and possibly result in malfunction. To prevent damaging the projector and injuring yourself, ALWAYS HOLD THE PROJECTOR whenever using the elevator buttons to adjust the elevator feet.

Angle Adjustment

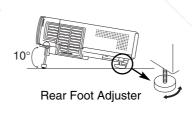
Use the foot adjusters on the bottom of the projector to adjust the projection angle. It is variable within 0° to 10° approximately.

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



Press the foot adjuster button

- 2 Release the button to lock at the desired angle
- **3** Make the rear foot adjuster screw to adjust the left-right slope





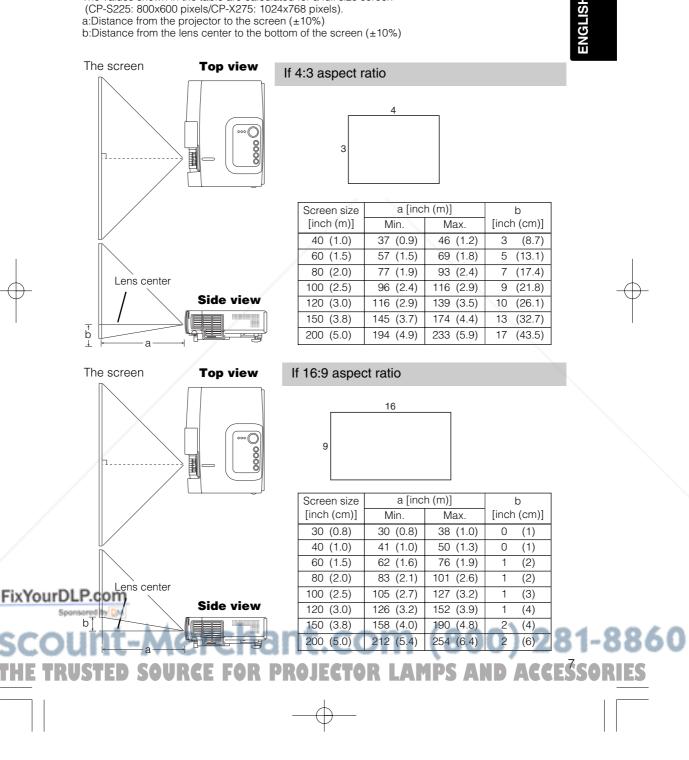
Adjusting the Screen Size and Projection Distance

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

The values shown in the table are calculated for a full size screen (CP-S225: 800x600 pixels/CP-X275: 1024x768 pixels).

a:Distance from the projector to the screen (±10%)

b:Distance from the lens center to the bottom of the screen $(\pm 10\%)$



CONNECTING YOUR DEVICES

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

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

ATTENTION Precautions to observe when connecting other devices to the projector
 Whenever attempting to connect other devices to the projector, please thoroughly read the manual of each device to be connected.

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

Indicates the corresponding reference page UVD players UVD players UVD players UVD players UVCRs EXYOURDERCOM Second Second Second (800) 281-88860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Ports and Cables

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

ENGLISH

| Function | Projector Port | Connection Cables |
|------------------------------------|--|--|
| RGB input | RGB IN | Accessory RGB cable or optional RGB cable with D-sub 15-pin shrink jack and inch thread screws |
| AUDIO input (from the computer) | AUDIO IN | Optional audio cable with stereo mini jack |
| RS-232C communication | CONTROL | Optional RS-232C cable |
| S-video input | S-VIDEO IN | Optional S-video cable with mini DIN 4-pin jack |
| Video input | VIDEO IN | Accessory audio/video cable |
| | COMPONENT VIDEO Y | |
| Component video input | COMPONENT VIDEO C _B /PB | Optional component video cable |
| | COMPONENT VIDEO C _R /P _R | |
| Audio input | AUDIO IN L | Accessory audio/video cable or optional |
| (from video equipment) | AUDIO IN R | audio cable with RCA jack |
| | | |

NOTE About Plug-and-Play Capability

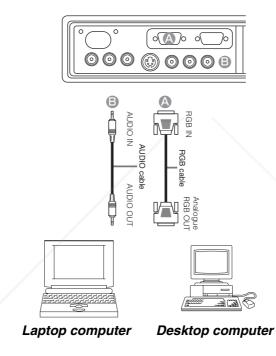
- This projector is compatible with VESA DDC 1/2B. Plug-and-Play can be achieved by connecting this projector to computers that are VESA DDC (display data channel) compatible. Please take advantage of this function by connecting the accessory RGB cable to the RGB IN port (DDC 1/2B compatible). Plug-and-Play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



CONNECTING YOUR DEVICES (continued)

Connecting to a Computer

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

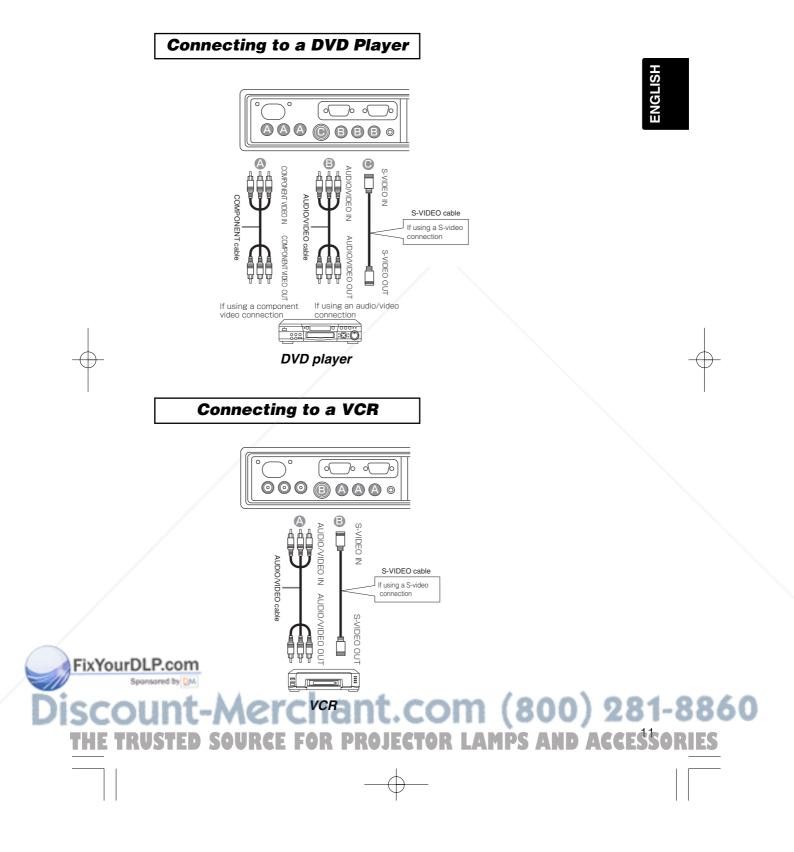


NOTE

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



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USING THE REMOTE CONTROL

Putting batteries into the remote control unit

CAUTION Precautions to observe in regards to the batteries

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

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

Remove the battery cover

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



Insert the batteries 2

1

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

Close the battery cover 3

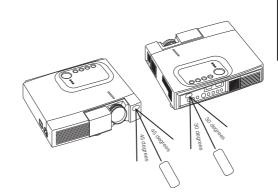
Replace the battery cover in the direction of the arrow and snap it back into place.



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Operating the remote control

- The remote control works with both the projector's front and rear remote sensors.
- The range of the remote sensor on the front is 3 meters with a 90-degree range (45 degrees to the left and right of the remote sensor), and back is 3 meters with a 60-degree range.
- Since the remote control uses infrared light to send signals to the projector (Class 1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.



ENGLISH

ATTENTION Precautions to observe when using the remote control

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



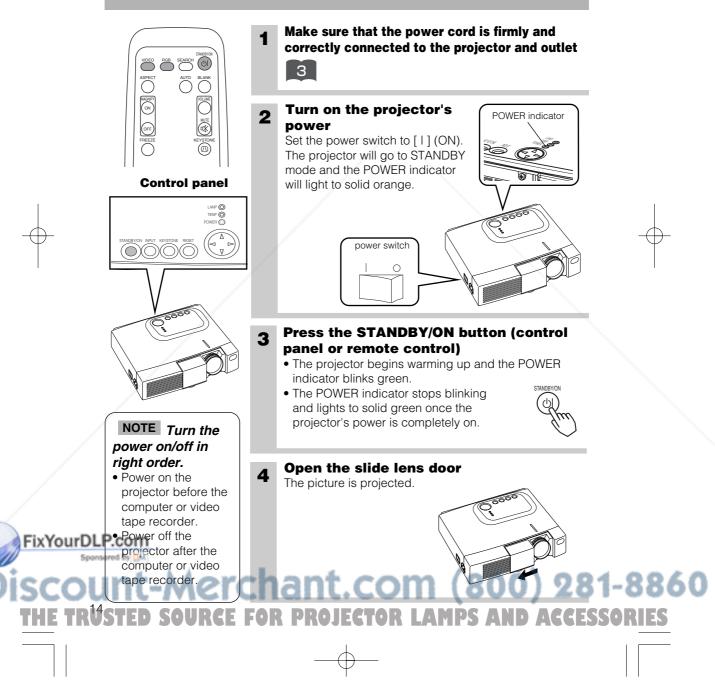
TURNING ON THE POWER

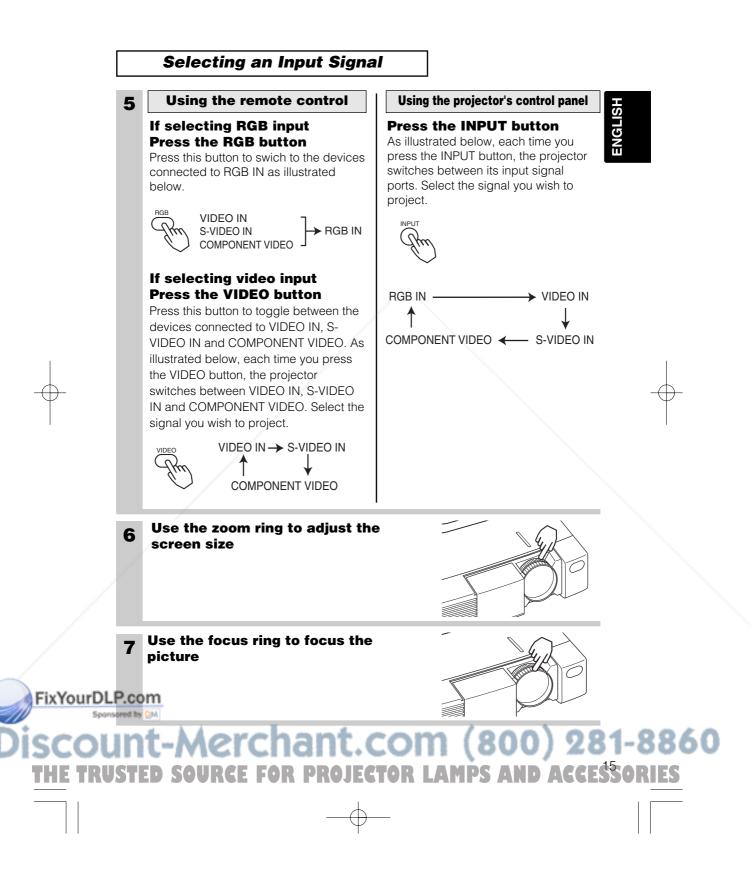
Precautions

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

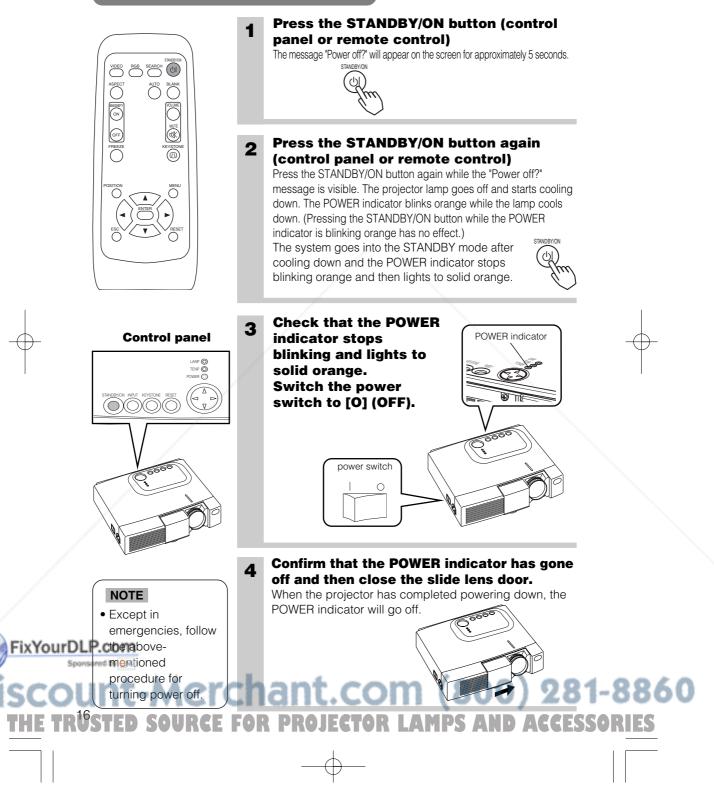
8~11

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

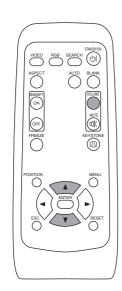




TURNING OFF THE POWER



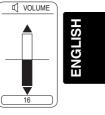
ADJUSTING THE VOLUME



Press the VOLUME button

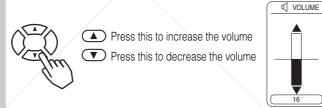
As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the volume.



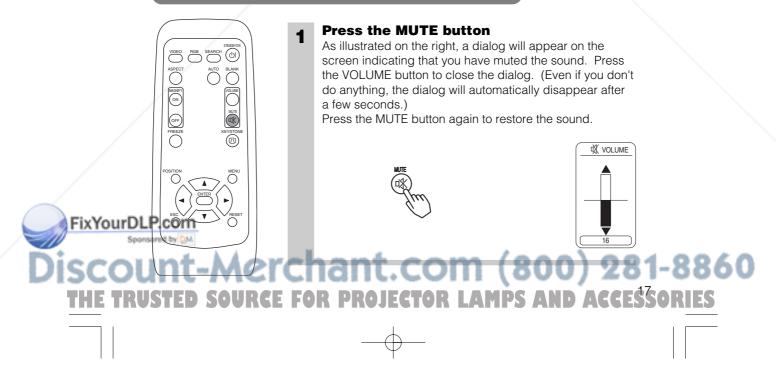


2 Press the \bigcirc , \bigcirc buttons to adjust the volume

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

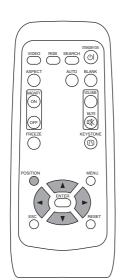


TEMPORARILY MUTING THE SOUND



ADJUSTING THE POSITION

1



Press the POSITION button

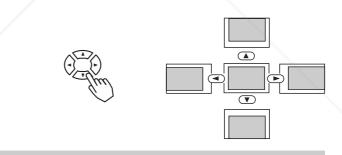
As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the position.



2 Use the \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc buttons to adjust the position

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

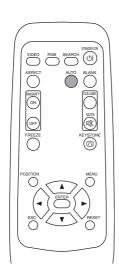
Press the POSITION button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.) This function is only available for RGB IN input.





1

USING THE AUTOMATIC ADJUSTMENT FEATURE



Press the AUTO button



Automatic Adjustment for RGB Input

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

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

Automatic Adjustment for Video Input

The signal type best suited for the respective input signal is selected automatically. This feature is available only if VIDEO is set to AUTO in the INPUT menu.

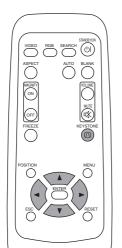
NOTE

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



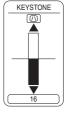
1

CORRECTING KEYSTONE DISTORTIONS



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





2 Use the (A), (V) buttons to correct the distortion

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



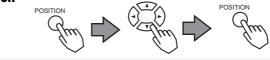
NOTE

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



USING THE MAGNIFY FEATURE

- **1 Press the MAGNIFY (ON) button** The projector enters MAGNIFY mode.
- 2 Press the POSITION button, then use the ◀, ▷, ▲ , ▼ buttons to select the area to enlarge and then press the POSITION button again to confirm your selection



3 Press the , vertice buttons to zoom in and out of the selected area. Press the MAGNIFY (OFF) button to exit MAGNIFY mode

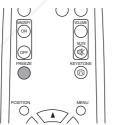
and restore the screen to normal. (The projector will also automatically exit MAGNIFY mode if there is a change in the input signal's state.)

NOTE

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

FREEZING THE SCREEN

1



Press the FREEZE button

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

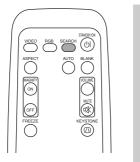


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FixYourDL NOTE Composition will automatically exit from FREEZE mode if either the POSITION, VOLUME, MUTE, AUTO, BLANK ON/OFF or MENU ON/OFF feature is used, or, if there is a change in the input signal's state. If the projector continues projecting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

SIGNAL SEARCHING

1

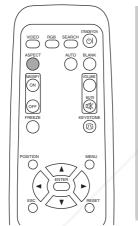


Press the SEARCH button

When you press the SEARCH button, the projector begins searching for input signals. If it detects an input signal, the search will cease and the projector will project the detected signal. If the projector is unable to find an input signal at any of its ports, it will return to the state it was in prior to the search.



SELECTING THE ASPECT RATIO



Press the ASPECT button

RGB IN, COMPONENT VIDEO (HDTV signals : 1125i (1035i/1080i), 750p) 4:3 \leftarrow 16:9 VIDEO IN, S-VIDEO IN, COMPONENT VIDEO (Non-HDTV signals : 525i, 525p,625i) 4:3 \rightarrow 16:9 \rightarrow SMALL

TEMPORARILY BLANKING THE SCREEN



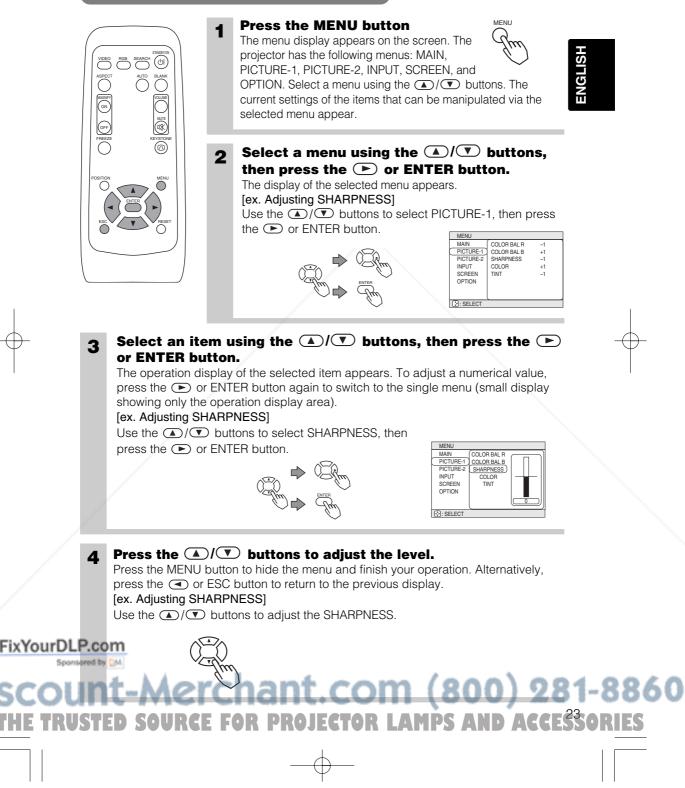
Press the BLANK button

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

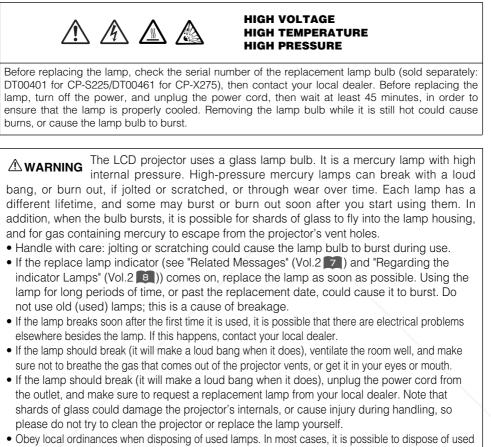
<u>800) 28</u>1-8860

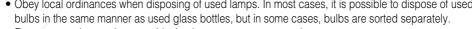
AMPS AND ACCESSORI

USING THE MENU FUNCTIONS



THE LAMP





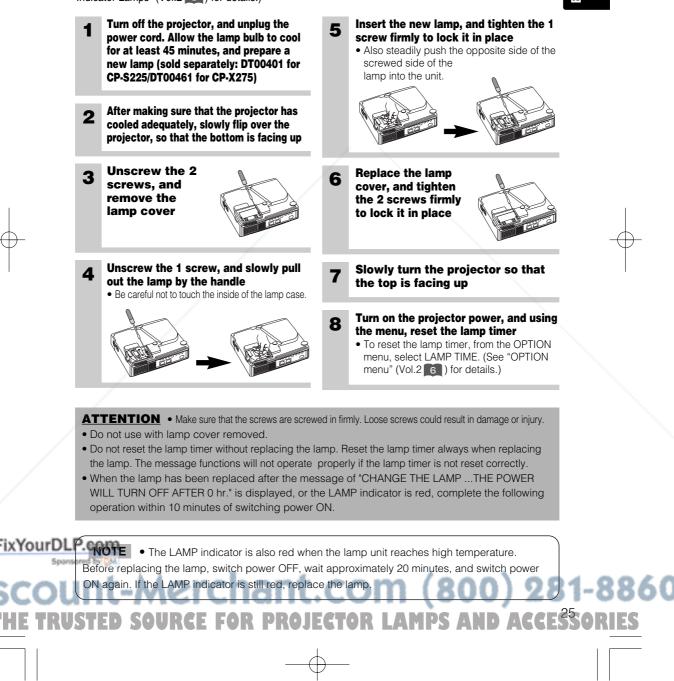
• Do not use the projector with the lamp cover removed.



Replacing the lamp

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

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THE AIR FILTER

Caring for the air filter

The air filter should be cleaned about every 100 hours. If the LAMP indicator and TEMP indicator blink red simultaneously, or a message prompts you to clean the air filter when you turn on the unit, the filter needs to be cleaned. (See "Related Messages" (Vol.2 2) and "Regarding the Indicator Lamps" (Vol.2 3) for details.)

1 Turn off the projector, and unplug the power cord

- **2** Apply a vacuum cleaner to the top of the air filter cover to clean the air filter
- Air Filter Cover
- **3** Turn on the projector, and use the menu to reset the filter timer
 - To reset the air filter timer, from the OPTION menu, select FILTER TIME. (See "OPTION menu" (Vol.2 6)) for details.)

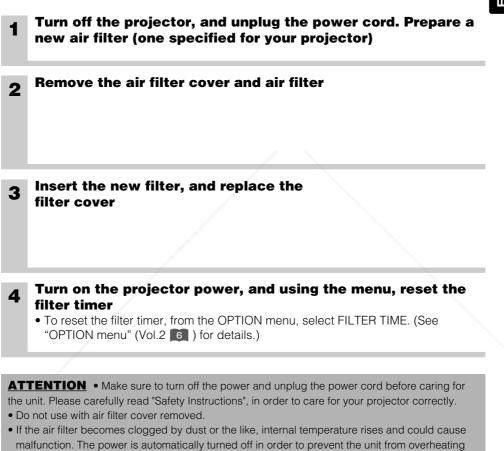


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Replacing the air filter

If the soiling will not come off the air filter, or it becomes damaged, then it needs to be replaced. Please contact your local dealer, after confirming the model of your separately sold replacement air filter. (See "Optional Parts" on Vol.2 10.)

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internally.



OTHER CARE

Caring for the inside of the projector :

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

Caring for the lens :

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

Caring for the cabinet and remote control transmitter :

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

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

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



REGULATORY NOTICES

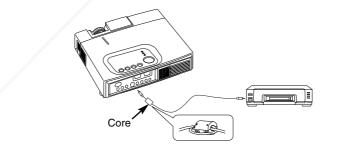
FCC Statement Warning

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help. **INSTRUCTIONS TO USERS:** This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met.

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



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

For the Customers in CANADA

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

Pour les utilisateurs au Canada

.

TRUSTED SOURCE

a

AVIS: Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du (800) 281-8860 Canada.

FOR PROJECTOR LAMPS AND ACCESSORIES

1L.CC

LCD Projector CP-S225/CP-X275 USER'S MANUAL Vol.2 (Extended)

Thank you for purchasing this projector.

MARNING • 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. ENGLISH

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
- The reproduction, transmission or use of this document or contents is not permitted without express written authority.

TRADEMARK ACKNOWLEDGEMENT :

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For "TECHNICAL" see the end of this manual.



MULTIFUNCTIONAL SETTINGS

This device has 6 separate menus: MAIN, PICTURE-1, PICTURE-2, INPUT, SCREEN, OPTION. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

Menu screen display : Press the "MENU" button.

Menu selection: Choose a menu name using the / > button or the ENTER button.

Item selection : Choose an item using the 1/ button, and press the button or the ENTER button.

Return menu to last previous screen: Press the button or the ESC button. Execution of settings and/or adjustments: Operate by using the / button. (For further details, read the explanation for each separate menu.)

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

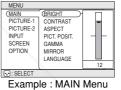
(Note that items whose functions are performed simultaneously with the operation of clock phase, language selection, automatic adjustment, etc., cannot be initialized.)

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

MAIN Menu

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

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



MAIN Menu

ixYou

(BRIGHT)

50

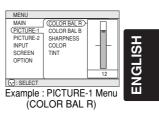
| | Item | Description | |
|--------|-------------|--|---------|
| | BRIGHT | Adjust Brightness: Light | |
| | CONTRAST | Adjust Contrast: Strong | |
| | ASPECT | Select Aspect Ratio: At RGB Input or Hi-Vision 1125i(1035i/1080i)/750p of COMPONENT VIDEO Input: 4:3 | |
| | PICT.POSIT. | Select Picture Position (for 16:9/SMALL Picture): TOP | |
| | GAMMA | Select Gamma Mode: NORMAL | |
| rDL | MIRROR | $\begin{array}{c} \textbf{Select Mirror Status:} \\ \textbf{NORMAL } \Leftrightarrow H: \textbf{INVERT } \Leftrightarrow V: \textbf{INVERT } \Leftrightarrow H& \textbf{V}: \textbf{INVERT } \end{array}$ | |
| Sports | | Select Menu Language: ENGLISH ① ⇔ ④ FRANÇAIS ① ⇔ ④ DEUTSCH ① ⇔ ④ ESPAÑOL ① ⇔ ④ ITALIANO ① ⇔ ④ NORSK ① ⇔ ④ NEDERLANDS ○ ⇔ ④ 日本語 ④ ⇔ ○ POTUGUÊS ○ ⇔ ④ 中文 ○ ⊕ ④ 한 ⊴ | 1-886 |
| 2 | | DAT TAD DDAITABAD I AMDS AND AAAT | SCADIEC |

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

PICTURE-1 Menu

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

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



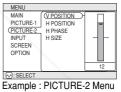
PICTURE-1 Menu

| Item | Description | |
|-------------|--|--|
| COLOR BAL R | Adjust Red Color Balance: Dark | |
| COLOR BAL B | Adjust Blue Color Balance: Dark $ \Leftrightarrow $ Light | |
| SHARPNESS | Adjust Sharpness (for VIDEO/S-VIDEO): Clear ▲ ⇔ ▼ Soft | |
| COLOR | Adjust COLOR (for VIDEO/S-VIDEO/COMPONENT VIDEO): Dark ▲ ⇔ ▼ Light | |
| TINT | Adjust Tint (for VIDEO/S-VIDEO): Green ▲ ⇔ ▼ Red | |

PICTURE-2 Menu

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

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



(V POSITION)

PICTURE-2 Menu

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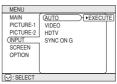
| Item | Description | |
|------------|---|--|
| V POSITION | Adjust Vertical Position (for RGB): Up | |
| H POSITION | Adjust Horizontal Position (for RGB): Left ▲ ⇔ ▼ Right | |
| H PHASE | Adjust Horizontal Phase (for RGB/COMPONENT VIDEO): Right ▲ ⇔ ▼ Left • Adjust to eliminate flicker. | |
| H SIZE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

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MULTIFUNCTIONAL SETTINGS (continued)

INPUT Menu

With the INPUT menu, the four items shown in the Table below can be performed. With inputting of RGB IN signal, the horizontal and vertical frequencies of the signal will be displayed on the initial screen of the INPUT menu.



Example : INPUT Menu (AUTO)

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

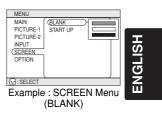
INPUT Menu

| | Item | Description | |
|---------------|----------|---|------------|
| \rightarrow | Αυτο | Auto Adjust (for RGB): Automatically adjusts H POSITION, V POSITION, H PHASE, and H SIZE. Use this function with the maximum window size. Auto Adjust (for VIDEO/S-VIDEO): Automatically selects the proper VIDEO mode for the current input signal. This function is active only when the AUTO mode is selected for the item VIDEO. Refer to the description for the item VIDEO below. This function may not be available with a PAL60 signal and certain other signals. The AUTO mode operation requires approximately 10 seconds. For COMPONENT VIDEO, the signal type is identified automatically even if this function is inactive. For a HDTV signal, refer to the item HDTV below. | |
| | VIDEO | Select Mode of Signal Type (for VIDEO/S-VIDEO): AUTO AUTO AU | - - |
| | HDTV | Select HDTV Signal Mode: 1080i → 1035i If the selected HDTV mode is incompatible with the input signal, the picture may be distorted. | |
| FixYourDLI | | On/Off SYNC ON G Mode: TURN ON → TURN OFF Selecting TURN ON turns on the SYNC ON G mode. The SYNC ON G mode allows reception of SYNC on G. In the SYNC ON G mode, the picture may be distorted with certain input signals. In such a case, remove the signal connector so that no signal is received and turn SYNC ON G off, and then reconnect the signal. | 1-8860 |
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| THE TRU | STED SOU | REE FUR PROJECTUR LAMPS AND ACCES | JJVKIEJ |
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SCREEN Menu

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

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



SCREEN Menu

| ltem | Description |
|----------|---|
| BLANK | Selection of BLANK Screen: |
| START UP | Selection of START UP Screen: TURN ON → TURN OFF The START UP Screen may be voluntarily selected. The START UP Screen is displayed when no signal has been inputted, or when spec signals are being inputted. TURN ON: Existing standard screens. Please make confirmation using the actual screen(s). TURN OFF: A non-patterned (plain) blue color screen. Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal. |

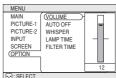


MULTIFUNCTIONAL SETTINGS (continued)

OPTION Menu

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

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



Example : OPTION Menu (VOLUME)

OPTION Menu

| Item | Description |
|-------------|---|
| VOLUME | Adjust Volume: High (▲ ⇔ (▼) Low |
| AUTO OFF | Adjust AUTO OFF Time: Long (MAX. 99 min.) → |
| WHISPER | Select WHISPER Mode: NORMAL ▼ ⇔ ▲ WHISPER When WHISPER is selected the WHISPER mode is activated. In the WHISPER mode, acoustic noise and screen brightness are reduced. |
| LAMP TIME | Refer to LAMP TIME: When set, this function displays the total time the projector lamp has been used since new. Reset LAMP TIME [Use this function only when the lamp has been replaced!]: Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the lamp with a new lamp, select RESET on the menu with the button. Do not reset the lamp time unless you have replaced the lamp. And, always reset the lamp time when replacing the lamp. The message functions will not operate properly if the lamp time is not reset correctly. Before replacing the lamp, carefully read the descriptions headed "THE LAMP". |
| FILTER TIME | Refer to FILTER TIME: This function displays the total time the air-filter has been used since new. Reset FILTER TIME [Use this function only when the filter is cleaned or replaced!]: Depress the RESET button for at least 3 seconds while lamp time is being displayed. The reset menu will then appear. After you replace the filter, select RESET on the menu with the button. RESET C CANCEL Do not reset the filter time unless you have cleaned or replaced the filter. And, always reset the filter time when cleaning or replacing the filter. The message functions will not operate properly if the filter time is not reset correctly. Before cleaning or replacing the filter, carefully read the descriptions headed "THE AIR FILTER". |

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WHAT TO DO WHEN YOU THINK A MACHINE DEFECT HAS OCCURRED

Related Messages

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

| Message | Description |
|---|---|
| CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. (Note 1) | Lamp usage time is approaching 2,000 hours. (Note 2) Preparation of a new lamp, and an early lamp change, is recommended. After you have changed the lamp, please be sure to reset the lamp timer. |
| CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER * * hr. (Note 1) | Lamp usage time is approaching 2,000 hours. A lamp change within ** hours is recommended. (Note 2) When lamp usage reaches 2,000 hours, the power will automatically be turned OFF. Please change the lamp by referring to "THE LAMP" in Vol.1 (Basic). After you have changed the lamp, please be sure to reset the lamp timer. |
| CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER 0 hr. | As lamp use has reached 2,000 hours, the power will soon be automatically turned OFF. (Note 2) Please immediately turn the power OFF, and follow the instructions in the "THE LAMP" section of the separate booklet, Vol.1 (Basic). After you have changed the lamp, please be sure to reset the lamp timer. |
| CLEAN THE AIR FILTER AFTER CLEANING AIR FILTER, RESET THE FILTER TIMER. | A note of precaution when cleaning the air filter. After cleaning the filter, operate FILTER TIME of the OPTION Menu, and perform reset of the filter timer. |
| NO INPUT IS DETECTED ON * * * | There is no input signal. Please confirm the signal input connection, and the status of the signal source. |
| SYNC IS OUT OF RANGE ON *** 11 *****kHz 17 *****Hz | The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit. Please confirm the specs for this unit or the signal source specs. |
| CHECK THE AIR FLOW | The internal portion temperature is rising. Please turn the power OFF, and allow the unit to cool down for approximately 20 minutes. After having confirmed the following items, then please resent the power to ON. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? |

NOTES

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Note 1: Although this message will be automatically disappeared after around 3 minutes, it will be reappeared every time the power is turned ON.

FixYourDLP with an automatic shut-down function, such that the power will automatically be turned OFF when lamp usage time has reached 2,000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes; a lamp may thus fail to light even prior

to the functioning of the automatic shut-down function of this unit.

AMPS

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

Regarding the Indicator Lamps

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

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

FixYourDLP.CNOTE

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

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60

Phenomena That May Easily Be Mistaken for Machine Defects

ENGLISH

(800) 281-8860

ECTOR LAMPS AND ACCESSORIES

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

| Phenomenon | Cases not involving a machine defect | Items to be confirmed | Reference Page(s) |
|--|---|---|----------------------|
| | The main power source is not ON. | Turn on the main power. | Vol.1-3, 14 |
| | The electrical power cord is not plugged in. | Correctly connect the power cord. | 1 101.1-0, 14 |
| Power does not come ON | The main power source has been interrupted during operation, such as by a power outage (blackout), etc. | Be sure to press the "O" (power OFF) side of the main power switch, and leave this OFF for approximately 20 minutes. After the unit has sufficiently cooled down, turn ON the power source. | Vol.1-14 |
| No sound or pictures are | The input changeover settings are mismatched. | Select the input signal, and correct the settings. | Vol.1-15 |
| outputted | No signal is being inputted. | Correctly connect the connection cord. | Vol.1-10, 11 |
| Pictures are | The electrical wiring to this unit is not correctly connected. | Correctly connect the connection cord. | Vol.1-10, 11 |
| displayed, but no sounds are heard | The volume setting has been set at (or adjusted to) an extremely low level. | Adjust the VOLUME setting to a higher level. | Vol.1-17 |
| | The MUTE mode is the current setting. | Press the MUTE button to release (change) the MUTE mode setting. | Vol.1-17 |
| Sounds are | The electrical wiring to this unit is not correctly connected. | Correctly connect the connection cord. | Vol.1-10, 11 |
| heard, but no pictures are | The brightness setting has been set at (or adjusted to) an extremely low level. | Adjust the BRIGHT setting to a brighter level. | Vol.2-2 |
| displayed | The Slide lens door has not been removed. | Remove the Slide lens door. | Vol.1-14 |
| Colors have a faded- out appearance Color tone is poor | Color depth setting or color tone setting | Perform picture adjustments by changing the COLOR BAL R, the COLOR BAL B, and/or the TINT settings, etc. | Vol.2-3 |
| | The brightness setting and/or contrast setting has not been properly adjusted. | Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc. | Vol.2-2 |
| Pictures appear dark | The WHISPER mode is the current setting. | Change (by releasing) from the WHISPER mode. | Vol.2-6 |
| | Lamp is approaching the end of its product lifetime. | Exchange the old lamp with a new lamp. | Vol.1-24, 25 |
| Pictures appear blurry | Either the FOCUS setting or the H PHASE is not properly adjusted. | Adjust the FOCUS and H PHASE settings. | Vol.1-15 Vol.2-3 |

NOTE

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

PROJ

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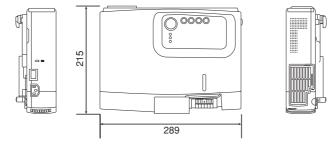
E

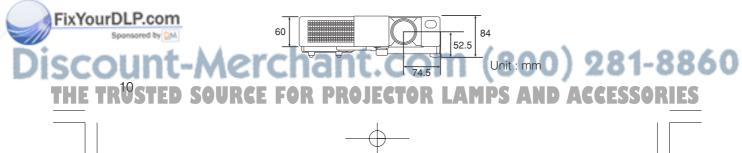
SPECIFICATIONS

NOTE • This specifications are subject to change without notice.

| Item | | Spec | Specification | | | | |
|-------------------|--------------|---|---|--|--|--|--|
| Product name | | Liquid crystal projector | Liquid crystal projector | | | | |
| Liquid | Panel size | 1.8 cm (0.7 type) | | | | | |
| crystal panel | Drive system | TFT active matrix | | | | | |
| - | Pixels | CP-S225: 480,000 pixels (800 CP-X275: 786,432 pixels (102 | | | | | |
| Lens | | Zoom lens F=2.0 ~ 2.3 f=18 ~ | - 21 mm | | | | |
| Lamp | | 150 W UHB | | | | | |
| Speaker | | 1.0W | | | | | |
| Power supply | | AC100 ~ 120V, 2.7A / AC220 | AC100 ~ 120V, 2.7A / AC220 ~ 240V, 1.3A | | | | |
| Power consumption | | 240W | 240W | | | | |
| Temperature range | | 0 ~ 35°C (Operating) | 0 ~ 35°C (Operating) | | | | |
| Size | | 289 (W) x 84 (H) x 215 (D) mm | 289 (W) x 84 (H) x 215 (D) mm | | | | |
| Weight (r | nass) | 2.4 kg | | | | | |
| Ports | | RGB Port RGB IN 1 VIDEO Ports 1 VIDEO IN 1 S-VIDEO IN 1 COMPONENT VIDEO (Y, CB/PB,CR/PR)1 | AUDIO Ports AUDIO IN(R, L)1 AUDIO IN1 CONTROL Port CONTROL1 | | | | |
| Optional Parts | | Air Filter: MU01461 | Lamp: CP-S225=DT00401, CP-X275=DT00461 Air Filter: MU01461 * For others, consult your dealer. | | | | |

Dimension Diagram





WARRANTY AND AFTER-SERVICE

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





TECHNICAL

SIGNAL CONNECTOR PIN ASSIGNMENT

Signal

-

RGB IN [1]: SDA (DDC)

H. sync./ Composite sync.

RGB IN [1]: SCL (DDC)

RGB IN [1]/[2] RGB OUT

Signal

Video input Red

Video input Blue

Ground

Ground Red

Ground Green

Ground Blue

Video input Green

Pin No

1

2

3

4

5

6

7

8

| _ | | | | | | | |
|---|------|----|---|----|----------|---|---|
| (| (5) | 4 | 3 | 2 | ۩ | | |
| 1 | ~ | ~ | ~ | ~ | <u>,</u> | ଛ | 1 |
| 1 | | ~ | ~ | ~ | ~ | 9 | 1 |
| | (15) | U) | 3 | 12 | U | , | / |
| | _ | | | | | _ | |

D-sub 15-pin Shrink

Pin No

9

10

11

12

13

14

15

Ground

RGB IN [2]:

RGB OUT :

Vertical sync

RGB IN [2]:

RGB OUT :



Mini Din 4-pin

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

| signal T | | Terminal | | Specification |] |
|----------|--|--------------------|------------------|--|-----------|
| | RGB signal input | | | 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 | |
| | AUDIO input (from the computer) | | | 200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack | |
| | | VIDEO IN | | 1.0Vp-p, 75Ω terminator, RCA jack | |
| | Video signal input | S-VIDEO IN | | Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (NTSC, burst signal),75Ω terminator 0.300Vp-p (PAL/SECAM, burst signal),75Ω terminator Mini DIN 4-pin jack | |
| | | | Y | 1.0 Vp-p, 75 Ω Terminator (Positive) | |
| | | COMPONENT VIDEO | Св/Рв | 0.7 Vp-p, 75 Ω Terminator (Positive) | |
| FixYourD | LP.com | | CR/PR | 0.7 Vp-p, 75 Ω Terminator (Positive) | |
| 240 | Audio input (from video equipment) | AUDIO IN (R. L |) ch i | 200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack | DOB8-18 |
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| | | | | | |

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EXAMPLE OF COMPUTER SIGNAL

| Resolution | fH (kHz) | fV (Hz) | Rating | Signal mode | Displa | y mode |
|-------------|----------|---------|--------|-------------|-----------|-----------|
| Η×V | | | пашіў | Signal mode | CP-S225WA | CP-X275WA |
| 720 × 400 | 37.9 | 85.0 | VESA | TEXT | Zoom in | Zoom in |
| 640 × 480 | 31.5 | 59.9 | VESA | VGA (60Hz) | Zoom in | Zoom in |
| 640 × 480 | 35.0 | 66.7 | | Mac13"mode | Zoom in | Zoom in |
| 640 × 480 | 37.9 | 72.8 | VESA | VGA (72Hz) | Zoom in | Zoom in |
| 640 × 480 | 37.5 | 75.0 | VESA | VGA (75Hz) | Zoom in | Zoom in |
| 640 × 480 | 43.3 | 85.0 | VESA | VGA (85Hz) | Zoom in | Zoom in |
| 800 × 600 | 35.2 | 56.3 | VESA | SVGA (56Hz) | | Zoom in |
| 800 × 600 | 37.9 | 60.3 | VESA | SVGA (60Hz) | | Zoom in |
| 800 × 600 | 48.1 | 72.2 | VESA | SVGA (72Hz) | | Zoom in |
| 800 × 600 | 46.9 | 75.0 | VESA | SVGA (75Hz) | | Zoom in |
| 800 × 600 | 53.7 | 85.1 | VESA | SVGA (85Hz) | | Zoom in |
| 832 × 624 | 49.7 | 74.5 | | Mac16"mode | Zoom out | Zoom in |
| 1024 × 768 | 48.4 | 60.0 | VESA | XGA (60Hz) | Zoom out | |
| 1024 × 768 | 56.5 | 70.1 | VESA | XGA (70Hz) | Zoom out | |
| 1024 × 768 | 60.0 | 75.0 | VESA | XGA (75Hz) | Zoom out | |
| 1024 × 768 | 68.7 | 85.0 | VESA | XGA (85Hz) | Zoom out | |
| 1152 × 864 | 67.5 | 75.0 | VESA | SXGA (75Hz) | Zoom out | Zoom out |
| 1280 × 960 | 60.0 | 60.0 | VESA | SXGA (60Hz) | Zoom out | Zoom out |
| 1280 × 1024 | 64.0 | 60.0 | VESA | SXGA (60Hz) | Zoom out | Zoom out |
| 1280 × 1024 | 80.0 | 75.0 | VESA | SXGA (75Hz) | Zoom out | Zoom out |
| 1280 × 1024 | 91.2 | 85.0 | VESA | SXGA (85Hz) | Zoom out | Zoom out |
| 1600 × 1200 | 75.0 | 60.0 | VESA | UXGA (60Hz) | Zoom out | Zoom out |

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

• Be sure to check jack type, signal level, timing and resolution before connecting this projector to a computer.

- Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.
- This projector will display up to UXGA (1600X1200) resolution signals but the image will be rescaled to the native resolution of the projector. Best display performance is achieved when the signal input resolution is the same as the native resolution of the projector.

• The image may not be displayed correctly when the input sync. signal is "Composite

FixYourDLP.covna." or "Sync. on G".

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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.

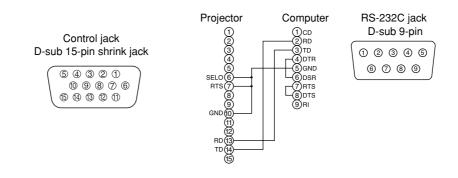


| Computer / | Horizontal signal timing (µs) Computer / Vertical signal timimg (lin | | | (lines) | | | | | |
|------------------|--|-----|------|---------|------------------|---|----|------|----|
| Signal | а | b | с | d | Signal | а | b | С | d |
| TEXT | 2.0 | 3.0 | 20.3 | 1.0 | TEXT | 3 | 42 | 400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



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 | tion | Ту | ре | 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. | |
| FixYourDL | | P.COM INCREMENT | | Increment setup value by 1. | |
| | Spons | ored by 5M | DECREMENT | Decrement setup value by 1. | |
| | Discou | 6 | EXECUTE | Run a command. | 81-8860 |
| | | 111/-1 | vici ci ann | | |
| | THE TRU | STED S | OURCE FOR PRO | JECTOR LAMPS AND ACC | ESSORIES |
| | | | | | |
| | | | | - h | |
| | | | | \uparrow | |

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

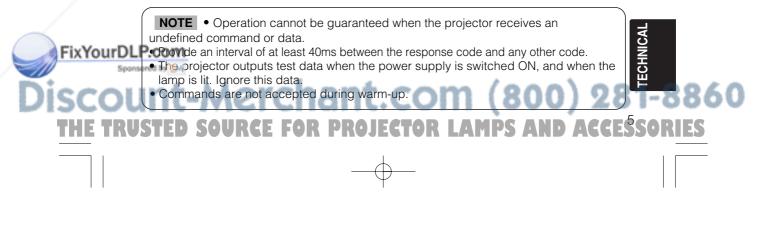
When the command sent by the projector cannot be understood, the error command '15H' is returned by the computer. Some times, the projector ignores RS-232C commands during other works. If the error command '15H' is returned, please send the same command again.

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.



RS-232C COMMUNICATION (continued)

Command data chart

| | Namaa | Operation type | | Header | | | | | Command data | | | |
|-----------|-------------------------------------|------------------------|----------------|--------|----|-------|-------|-------|--------------|-------|--------------|--|
| | Names | | Operation type | | П | eauer | | CRC | Action | Туре | Setting code | |
| | | | Blue | BE | EF | 03 | 06 00 | CB D3 | 01 00 | 00 30 | 03 00 | |
| | Blank Color | Set | White | BE | EF | 03 | 06 00 | 6B D0 | 01 00 | 00 30 | 05 00 | |
| | Biarik Color | | 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 | |
| | | | 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 | |
| | 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 | |
| | | | Normal | BE | EF | 03 | 06 00 | 83 D2 | 01 00 | 02 30 | 00 00 | |
| | Freeze | Set | Freeze | BE | EF | 03 | 06 00 | 13 D3 | 01 00 | 02 30 | 01 00 | |
| | | Get | | BE | EF | 03 | 06 00 | B0 D2 | 02 00 | 02 30 | 00 00 | |
| | Startup | <u> </u> | TURN ON | BE | EF | 03 | 06 00 | 0B D2 | 01 00 | 04 30 | 00 00 | |
| | | Set | 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 | | 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 | |
| | | Set | Norsk | BE | EF | 03 | 06 00 | A7 D0 | 01 00 | 05 30 | 05 00 | |
| | | | Nederlands | BE | EF | 03 | 06 00 | 57 D0 | 01 00 | 05 30 | 06 00 | |
| | | | Português | BE | EF | 03 | 06 00 | C7 D1 | 01 00 | 05 30 | 07 00 | |
| | | | 日本語 | BE | EF | 03 | 06 00 | 37 D4 | 01 00 | 05 30 | 08 00 | |
| | | | 中文 | BE | EF | 03 | 06 00 | A7 D5 | 01 00 | 05 30 | 09 00 | |
| | | | 한글 | BE | EF | 03 | 06 00 | 57 D5 | 01 00 | 05 30 | 0A 00 | |
| | / | <u> </u> | Get | BE | | 03 | 06 00 | C4 D3 | 02 00 | 05 30 | 00 00 | |
| | Magnify | - | Get | BE | | 03 | 06 00 | 7C D2 | 02 00 | 07 30 | 00 00 | |
| | | Increment Decrement | | BE | | 03 | 06 00 | 1A D2 | 04 00 | 07 30 | 00 00 | |
| | in agriny | | | BE | | 03 | 06 00 | CB D3 | 04 00 | 07 30 | 00 00 | |
| | | | | | | | | | | | | |
| | | Get | | BE | | 03 | 06 00 | 08 86 | 02 00 | 10 31 | 00 00 | |
| | Auto off | Increment Decrement | | BE | | 03 | 06 00 | 6E 86 | 04 00 | 10 31 | 00 00 | |
| | | | | BE | EF | 03 | 06 00 | BF 87 | 05 00 | 10 31 | 00 00 | |
| FixYourDL | Brightness P.co ^{Reset} | | Execute | BE | EF | 03 | 06 00 | 58 D3 | 06 00 | 00 70 | 00 00 | |
| Sport | Contrast Reset | | Execute | BE | EF | 03 | 06 00 | A4 D2 | 06 00 | 01 70 | 00 00 | |
| 000 | V.Position Reset | | Execute | BE | EF | 03 | 06 00 | E0 D2 | 06 00 | 02 70 | 00 00 | |

V.Position Reset Execute BE EF 03 06 00 E0 D2 06 00 02 70 00 00 1-8860 THE TRÖSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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| | Namoo | News | | | | | | | Comman | d data | |
|-------------|--|-----------|---|---|---------------|--|-----------|---------|-----------|--------------|----------------|
| - | Names | | ration type | lieadei | | | CRC | Action | Туре | Setting code | |
| | H.Position Reset | 1 | Execute | BE EF | 03 | CRC Action Type Setting code 0 0 1C D3 06 00 03 70 00 00 0 0 0 6 D2 06 00 04 70 00 00 0 0 0 D4 D3 06 00 05 70 00 00 0 0 0 D0 D3 06 00 05 70 00 00 0 0 0 D0 D3 06 00 09 70 00 00 0 6 00 D2 D3 06 00 D4 70 00 00 0 6 00 D4 70 00 | | | | | |
| | H.Size Reset | I | Execute | BE EF | 03 | 06 00 | 68 D2 | 06 00 | 04 70 | 00 00 | |
| | Color Balance R Reset | I | Execute | BE EF | 03 | 06 00 | 94 D3 | 06 00 | 05 70 | 00 00 | |
| | Color Balance B Reset | I | Execute | BE EF | 03 | 06 00 | D0 D3 | 06 00 | 06 70 | 00 00 | |
| | Sharpness Reset | I | Execute | BE EF | 03 | 06 00 | C4 D0 | 06 00 | 09 70 | 00 00 | |
| | Color Reset | I | 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 ResetExecuteBE EF03060008Auto AdjustExecuteBE EF03060091Lamp Time ResetExecuteBE EF03060058Filter Time ResetExecuteBE EF03060098 | 08 D0 | 06 00 | 0C 70 | 00 00 | | | | | | |
| | | 1 | Execute | BE EF | 03 | 06 00 | 91 D0 | 06 00 | 0A 20 | 00 00 | |
| | Lamp Time Reset | Execute | | BE EF | 03 | 06 00 | 58 DC | 06 00 | 30 70 | 00 00 | |
| | Filter Time Reset | 1 | Operation type Header CRC Action Type Setting code Execute BE EF 03 06 00 17 00 00 Execute BE EF 03 06 00 17 00 00 00 Execute BE EF 03 06 00 94 D3 06 00 00 00 00 Execute BE EF 03 06 00 04 00 00 00 00 00 00 Execute BE EF 03 06 00 06 00 07 00 | | | | | | | | |
| | | <u>.</u> | off | BE EF | 03 | 06 00 | FB D8 | 01 00 | 20 30 | 00 00 | |
| | Blank on/off | Set | on | Import Reader CRC Action Type Setting code ute BE EF 03 06 00 12 03 06 00 03 70 00 00 ute BE EF 03 06 00 94 D3 06 00 05 70 00 00 ute BE EF 03 06 00 04 70 00 00 ute BE EF 03 06 00 D3 06 00 07 00 00 ute BE EF 03 06 00 BD 0 00 <td< td=""></td<> | | | | | | | |
| | | | 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 | $- \bigcirc -$ |
| \uparrow | Error Status | | Get | 00 00 (Normal) | 01 0 (Cove | 0 er-error) | (Fan-erro | or) (La | mp-error) | | |
| | | | / | | | | | | | | |
| · | | 1 | OFF | | - | | | | | | |
| | Power | Set | ON | BE EF | 03 | 06 00 | BA D2 | 01 00 | 00 60 | 01 00 | |
| | Names Operation type Header CRC Action Type Setting code H.Position Reset Execute BE EF 03 06 00 07 00 00 Color Balance Execute BE EF 03 06 00 04 03 00 | | | | | | | | | | |
| | | | RGB | BE EF | 03 | 06 00 | FE D2 | 01 00 | 00 20 | 00 00 | |
| | | 0.1 | Video | BE EF | 03 | 06 00 | 6E D3 | 01 00 | 00 20 | 01 00 | |
| | Input Source | Sei | 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 | |
| | | | Get | BE EF | 03 | 06 00 | 31 D3 | 02 00 | 01 20 | 00 00 | |
| | Volume | lr | crement | BE EF | 03 | 06 00 | 57 D3 | 04 00 | 01 20 | 00 00 | |
| | | D | ecrement | BE EF | 03 | 06 00 | 86 D2 | 05 00 | 01 20 | 00 00 | |
| | | | Normal | BE EF | 03 | 06 00 | 46 D3 | 01 00 | 02 20 | 00 00 | |
| | Mute | Set | Mute | BE EF | 03 | 06 00 | D6 D2 | 01 00 | 02 20 | 01 00 | F |
| EixVourDI B | Pcom | | Get | BE EF 03 06 00 07 00 00 00 00 BE FF 03 06 00 7C D1 06 00 07 00 00 BE FF 03 06 00 7C D1 06 00 07 00 00 Cute BE EF 03 06 00 91 D0 06 00 C7 00 00 Cute BE EF 03 06 00 91 D0 06 00 20 00 00 00 Cute BE EF 03 06 00 81 01 00 | | | | | | | |
| | | | Get | BE EF | 03 | 06 00 | 89 D2 | 02 00 | 03 20 | 00 00 | H |
| | | Increment | | BE EF 🝙 | 03 | 06 00 | EF D2 | 04 00 | 03 20 | 00 00 | H a a a a |
| DISCOU | nt-M | D | ecrement | BE EF | 03 | 06 00 | 3E D3 | 05 00 | 03 20 | | 0088-13 |
| | CUER CAIL | | | DDA | | | | | | ARRE | ZCODIEC |

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| Names | Operation type | | l F | leader | | _ | Command data | | |
|--------------------------------|-------------------------------|----------|-------|--------|-------|-------|--------------|-------|--------------|
| Hamoo | | | | iouuo. | | CRC | Action | Туре | Setting code |
| | Get | | BE EF | 03 | 06 00 | FD D3 | 02 00 | 04 20 | 00 00 |
| Contrast | 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 |
| | Get | | BE EF | 03 | 06 00 | 01 D2 | 02 00 | 05 20 | 00 00 |
| Color Balance R | 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 |
| | Get | | BE EF | 03 | 06 00 | 45 D2 | 02 00 | 06 20 | 00 00 |
| Color Balance B | Ir | crement | 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 |
| | Get | | BE EF | 03 | 06 00 | B9 D3 | 02 00 | 07 20 | 00 00 |
| Keystone_V | Ir | crement | BE EF | 03 | 06 00 | DF D3 | 04 00 | 07 20 | 00 00 |
| | D | ecrement | BE EF | 03 | 06 00 | 0E D2 | 05 00 | 07 20 | 00 00 |
| | | 4:3 | BE EF | 03 | 06 00 | 9E D0 | 01 00 | 08 20 | 00 00 |
| A | Set | 16:9 | BE EF | 03 | 06 00 | 0E D1 | 01 00 | 08 20 | 01 00 |
| Aspect | | Small | BE EF | 03 | 06 00 | FE D1 | 01 00 | 08 20 | 02 00 |
| | | Get | BE EF | 03 | 06 00 | AD D0 | 02 00 | 08 20 | 00 00 |
| | | Default | BE EF | 03 | 06 00 | 62 D1 | 01 00 | 09 20 | 00 00 |
| Picture | Set | Bottom | BE EF | 03 | 06 00 | F2 D0 | 01 00 | 09 20 | 01 00 |
| Position at 16 : 9 or Small | | Тор | 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 |
| | Get | | BE EF | 03 | 06 00 | 0D 83 | 02 00 | 00 21 | 00 00 |
| V.Position | 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 |
| | Get | | BE EF | 03 | 06 00 | F1 82 | 02 00 | 01 21 | 00 00 |
| H.Position | 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 |
| | Get Increment Decrement | | BE EF | 03 | 06 00 | B5 82 | 02 00 | 02 21 | 00 00 |
| H.Size | | | BE EF | 03 | 06 00 | D3 82 | 04 00 | 02 21 | 00 00 |
| | | | BE EF | 03 | 06 00 | 02 83 | 05 00 | 02 21 | 00 00 |
| | Get | | BE EF | 03 | 06 00 | 49 83 | 02 00 | 03 21 | 00 00 |
| H.Phase | 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 |
| | Get | | BE EF | 03 | 06 00 | F1 72 | 02 00 | 01 22 | 00 00 |
| Sharpness | 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 |
| | | Get | BE EF | 03 | 06 00 | B5 72 | 02 00 | 02 22 | 00 00 |
| 0.1 | Increment | | BE EF | 03 | 06 00 | D3 72 | 04 00 | 02 22 | 00 00 |
| Color COM | | | | | | | | | |

Command data chart (continued)

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| Names | 000 | eration type | | leader | | - | Command data | | | | |
|---------------|-----------|--------------|-------|--------|-------|-------|--------------|-------|--------------|--|--|
| Names | Ope | eration type | 1 | leauei | | CRC | Action | Туре | Setting code | | |
| | Get | | BE EF | 03 | 06 00 | 49 73 | 02 00 | 03 22 | 00 00 | | |
| Tint | Ir | ncrement | 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 | | |
| | | 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 | Set | SECAM | BE EF | 03 | 06 00 | 6E 75 | 01 00 | 00 22 | 09 00 | | |
| video i ormat | | 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 | | |
| | Set | 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 | | |
| | 0-1 | off | BE EF | 03 | 06 00 | CB D0 | 01 00 | 08 30 | 01 00 | | |
| Sync on G | Set | 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 | | |
| | | NORMAL | BE EF | 03 | 06 00 | 3B 23 | 01 00 | 00 33 | 00 00 | | |
| WHISPER | Set | 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 | / | NORMAL | BE EF | 03 | 06 00 | C7 F0 | 01 00 | A1 30 | 00 00 | | |
| | Set | 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 | | |
| Lamp Time | | Get | BE EF | 03 | 06 00 | C2 FF | 02 00 | 90 10 | 00 00 | | |
| Filter Time | | Get | BE EF | 03 | 06 00 | C2 F0 | 02 00 | A0 10 | 00 00 | | |



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