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# Liesegang

Liquid Crystal Projector

## dv370/380

Model No.273/277

### USER'S MANUAL

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

### BEDIENUNGSANLEITUNG

Bitte lesen 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'istruzioni 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 correctamente el producto.

### GEBRUIKSAANWIJZNG

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

### BRUKERHÅNDBOK

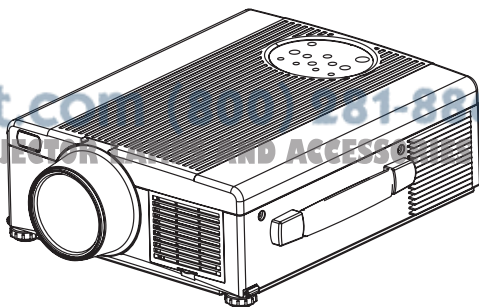
Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

### INSTRUÇÕES DO PROPRIETÁRIO

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



REGULATORY NOTICES



ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

NEDERLANDS

NORSK

PORTUGÊS

TECHNICAL

# 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.

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# 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

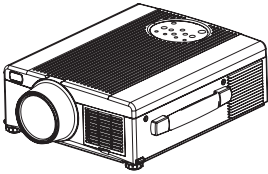
Distortion-free images are quickly available.

# 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.



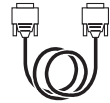
Projector



Power Cord  
(UK Type)



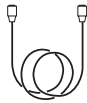
Power Cord  
(Europe Type)



RGB Cable



User's Manual  
(this manual)



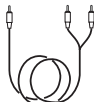
S-Video Cable



Video/Audio Cable  
(with white lead)



Component  
Video Cable  
(with green lead)



Audio Cable  
(Stereo Mini)



Batteries  
for Remote Control  
Transmitter



Remote Control  
Transmitter

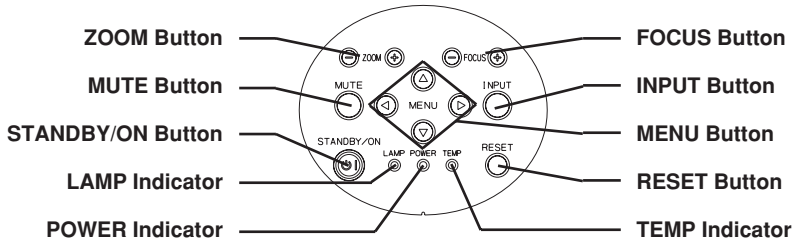


Mouse cable  
(PS/2)

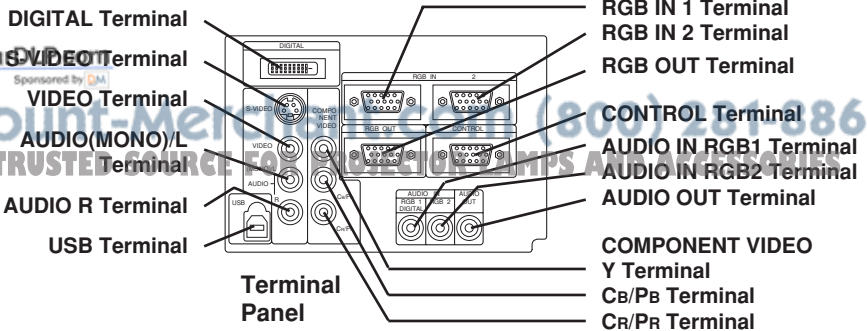
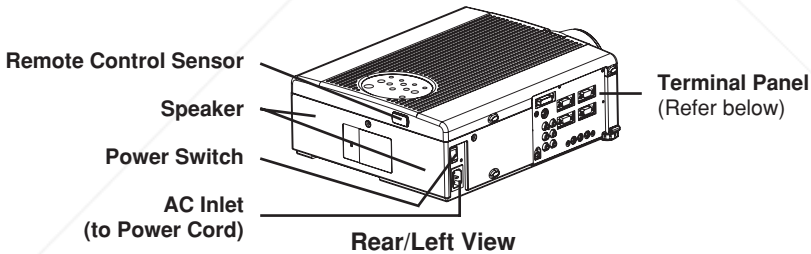
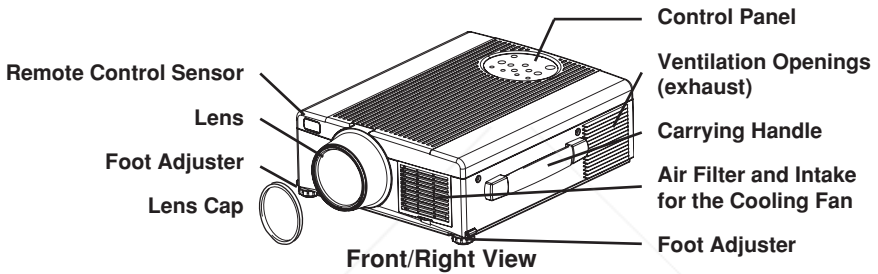
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# BEFORE USE (continued)

## Part Names



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

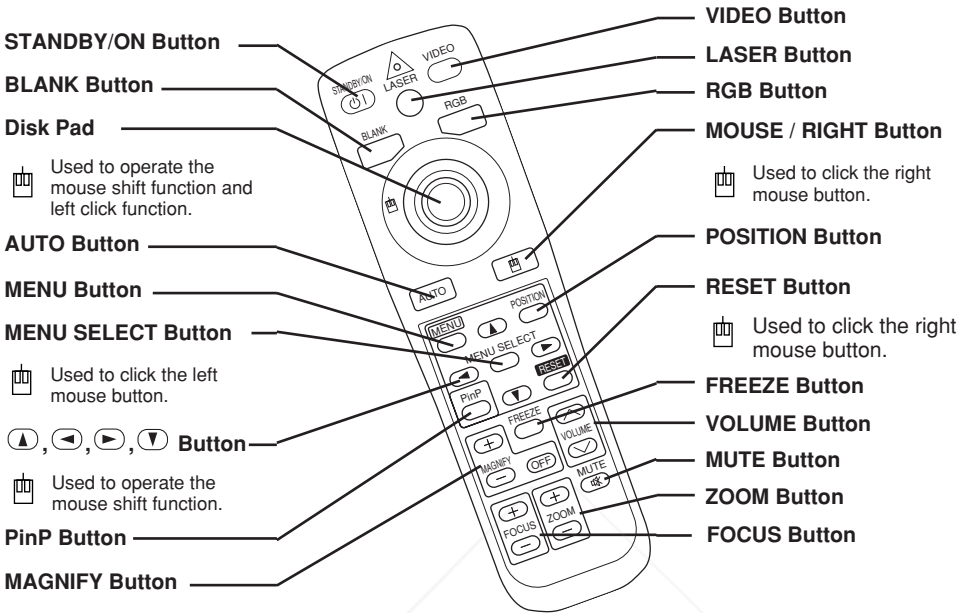


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# BEFORE USE (continued)

## Part Names (continued)

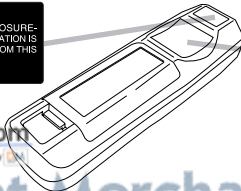


### REMOTE CONTROL TRANSMITTER (Refer to P.9 "OPERATIONS")

These functions work 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

PRODUCTION LASER	MANUFACTURED
RAYONNEMENT LASER	MANUFACTURED
NE PAS REGARDER DANS LE FAISCEAU APPAREIL A LASER DE CLASSE 2	MANUFACTURED
LASER STRAHLUNG	MANUFACTURED
NICHT IN DEN STRAHLEN BLICKEN LASER KLASSE 2	MANUFACTURED

EC020250-11993-A11997



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### NOTE To prevent any malfunction,

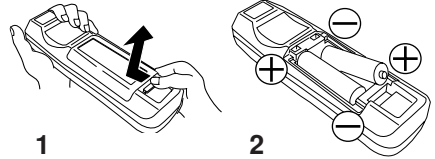
- Do not give the remote control transmitter any physical impact. Take care not to drop.
- Do not place the heavy objects on the remote control transmitter.
- Do not wet the remote control transmitter or place it on any wet object.
- Do not place the remote control transmitter close to the cooling fan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

# 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.



**CAUTION** • 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 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.



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# INSTALLATION

## Installation of the Projector and Screen

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

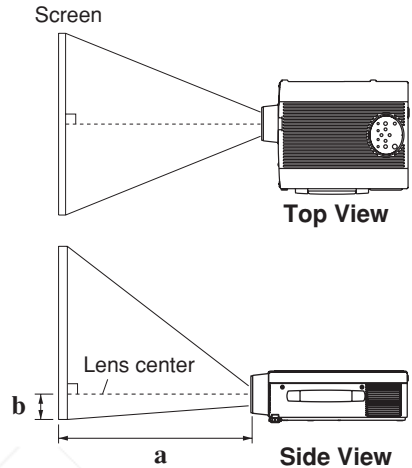
The projection distances shown in the table below are for full size (1024 x 768 dots).

a: Distance from the projector to the screen. ( $\pm 10\%$ )

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

**Table 1. Installation Reference**

Screen size [inches (m)]	a [inches (m)]		b [inches (cm)]
	Min.	Max.	
40 (1.0)	55 (1.4)	73 (1.9)	1 (3)
60 (1.5)	85 (2.2)	114 (2.9)	2 (4)
80 (2.0)	114 (2.9)	151 (3.8)	2 (6)
100 (2.5)	144 (3.7)	191 (4.9)	3 (7)
120 (3.0)	176 (4.5)	231 (5.9)	3 (9)
150 (3.8)	220 (5.6)	282 (7.2)	4 (11)
200 (5.0)	291 (7.4)	386 (9.8)	6 (15)



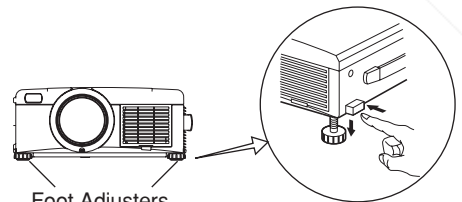
**CAUTION** • Install the projector in a suitable environment according to instructions of the accompanying manual “SAFETY INSTRUCTIONS” and this manual.

- Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position and the side up position, this may cause the heat inside to build up and 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.).

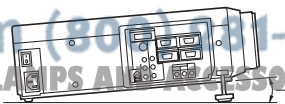
## Angle Adjustment

Use the foot adjusters on the bottom of the projector to adjust the projection angle. It is variable within  $0^\circ$  to  $9^\circ$  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 angle to be fixed.
3. Make the foot adjusters screw for fine adjustment. Do not force the adjusters to make screw. This could damage the adjusters or cause the lock to fail.



Foot Adjusters



Variable within the range of approximately  $0^\circ$  -  $9^\circ$



**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.



# 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	
Digital RGB input	DIGITAL	Optional digital RGB cable with inch thread screws
Audio input (from the computer)	AUDIO IN [RGB 1] / [DIGITAL] (interlocked with RGB IN 1 or DIGITAL)	Accessory audio cable with stereo mini jack
	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	Accessory 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 (MONO)/L	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.

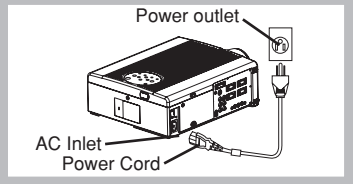
- Secure the screws on the connectors and tighten.
- For some RGB input modes, the optional Mac adapter is necessary.
- To select the digital RGB input, the computer may need some settings. See the manuals of the computer for details.
- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- Refer to the “TECNICAL” section for the pin assign of connectors and RS-232C communication data.
- When the DIGITAL terminal is used, the RGB OUT terminal may not function.

# INSTALLATION (continued)

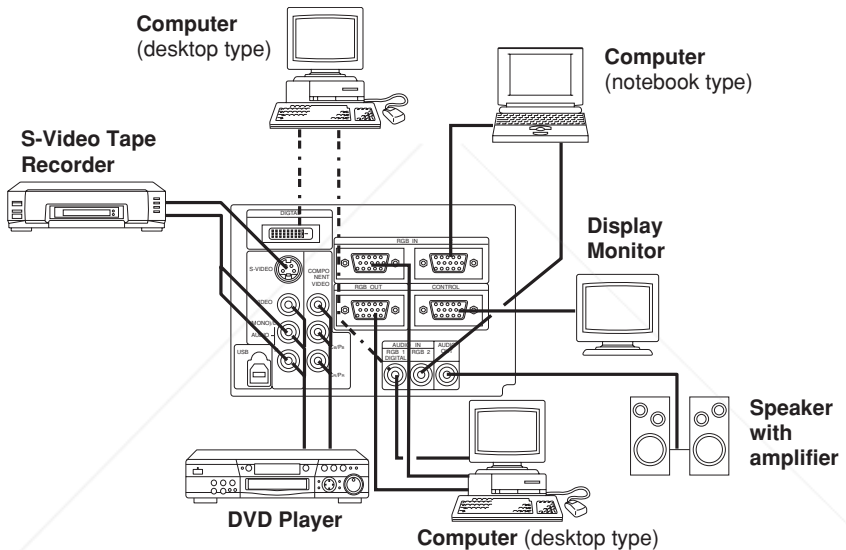
## Power Connection

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 careful 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, unground outlet or contact failure.



## Example of system setup



**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

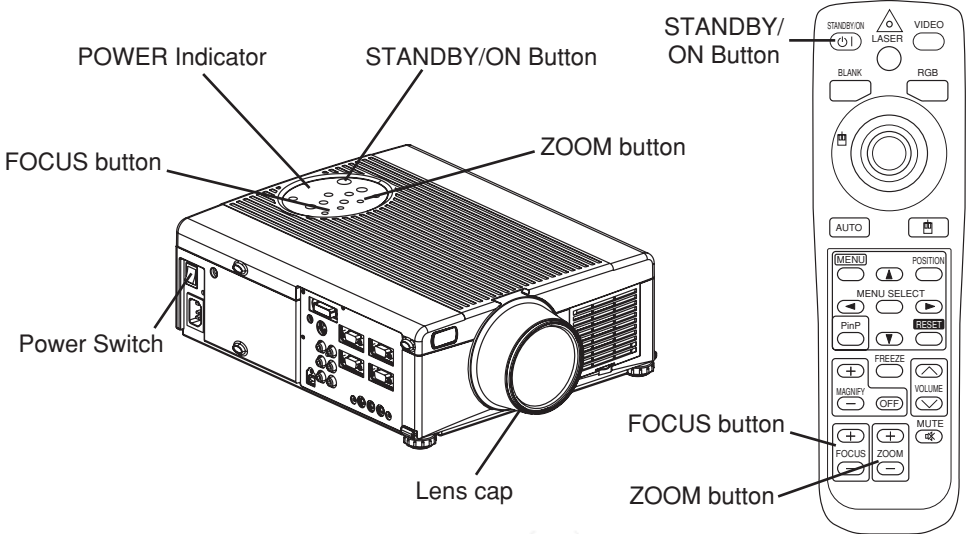
This projector is VESA DDC 1/2B compatible. Plug & play is possible by connecting to a computer that is VESA DDC (Display Data Channel) compatible.

Please use this function by connecting the accessory RGB cable with RGB IN 1 terminal (DDC 1/2B compatible), or by connecting an optional digital RGB cable with DIGITAL 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. Plug & play will not operate in the connection with Apple computer.

# OPERATIONS



## Power ON

1. Check that the power cord is connected correctly.
2. Set the power switch to [ I ]. The standby mode is selected, and the POWER 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 POWER indicator blinks in green.
4. The POWER indicator ceases blinking and turns to green when power is on. Remove the lens cap.
5. Adjust picture size using the ZOOM button.
6. Adjust focus using the FOCUS button .

## Power OFF

1. Press the STANDBY/ON button (Ⓜ) on the control panel or the remote control transmitter for approximately two second. The projector lamp is extinguished and lamp cooling begins. The POWER indicator blinks orange during lamp cooling. Pressing the STANDBY/ON button (Ⓜ) has no effect while the POWER indicator is blinking.
2. The system assumes the Standby mode when cooling is complete, and the POWER indicator ceases blinking and changes to orange. Check that the indicator is orange and set the Power Switch to [ I ].
3. The POWER indicator is extinguished when power is off. Attach the lens cap.

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

- NOTE** • Except in emergencies, do not turn off unless the POWER indicator is orange as it will reduce the life of the projector lamp.
- To prevent any trouble, 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.

# 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	<p><b>Select Input Signal (*)</b> : Press the INPUT button.            RGB IN 1 → RGB IN 2 → DIGITAL            → VIDEO → S-VIDEO → COMPONENT VIDEO (→ RGB IN 1)</p> <p><b>Select RGB Input</b> : Press the RGB button.            VIDEO/S-VIDEO/COMPONENT VIDEO → RGB IN 1/RGB IN 2/DIGITAL            RGB IN 1 → RGB IN 2 → DIGITAL (→ RGB IN 1)</p> <p><b>Select Video Input</b> : Press the VIDEO button.            RGB IN 1/RGB IN 2/DIGITAL → VIDEO/S-VIDEO/COMPONENT VIDEO            VIDEO → S-VIDEO → COMPONENT VIDEO (→ VIDEO)</p> <ul style="list-style-type: none"> <li>The selected signal name is displayed for approximately 3 seconds when the input signal is changed.</li> </ul>
POSITION	<p><b>Set/Clear Position Adjustment Mode</b> : Press the POSITION button.            The [ ] icon is displayed in the POSITION mode.</p> <p><b>Image Position Adjustment</b>: Press the ◀, ▶, ▲ and ▼ buttons in the POSITION mode.</p> <ul style="list-style-type: none"> <li>Valid only in the MAGNIFY mode with a video signal is input.</li> <li>After approximately 10 seconds of inactivity the [ ] icon is extinguished and the POSITION mode is cleared automatically.</li> <li>◀, ▶, ▲ and ▼ buttons may operate as the mouse control button. Refer to page 4.</li> </ul>
RESET (*)	<p><b>Initialise Each Item</b> : Select an item and press the RESET button.</p> <p><b>Initialise Position Adjustment</b> : Press the RESET button and the POSITION mode. This function is valid only when RGB signal is input.</p> <ul style="list-style-type: none"> <li>Valid except for the VOLUME, LANGUAGE and H PHASE.</li> <li>The RESET button may operate as the mouse control button. Refer to page 4.</li> </ul>
MAGNIFY	<p><b>Set MAGNIFY Mode</b> : Press the MAGNIFY ⊕ button.</p> <p><b>Move Magnified Area</b> : Run the POSITION in the MAGNIFY mode.</p> <p><b>Adjust Magnification</b> : Press the MAGNIFY ⊕ / ⊖ button in MAGNIFY mode.</p> <p><b>Clear MAGNIFY Mode</b> : Press the MAGNIFY ⊖ button.</p> <ul style="list-style-type: none"> <li>The MAGNIFY mode is cleared by running or setting the AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.</li> </ul>
FREEZE	<p><b>Set Clear FREEZE Mode</b> : Press the FREEZE button. The [ ] icon is displayed, and the image frozen, in the FREEZE mode.</p> <ul style="list-style-type: none"> <li>The FREEZE mode is cleared by running or setting POSITION, VOLUME, MUTE, Automatic Adjustment, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal.</li> <li>Do not forget to clear frozen static images.</li> </ul>

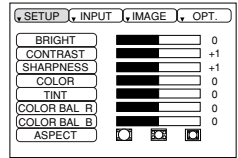
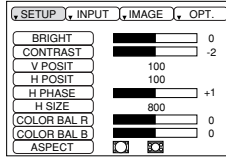
**NOTE** • Use the remote control transmitter at a distance of approximately 5m from the sensor on the front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote control transmitter.



# OPERATIONS (continued)

## 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  $\blacktriangle$  and  $\blacktriangledown$  buttons, and start operation. Use the Single menu to reduce menu size (see Table 3, MENU SELECT).



**Table 4. Setup Menu**

Item	Description	RGB IN 1 RGB IN 2 DIGITAL			VIDEO S-VIDEO COMPONENT VIDEO	
		RGB IN 1 RGB IN 2	DIGITAL		VIDEO S-VIDEO COMPONENT	
BRIGHT	<b>Adjustment:</b> Dark $\blacktriangle$ $\leftrightarrow$ Light $\blacktriangledown$	✓	✓	✓		
CONTRAST	<b>Adjustment:</b> Weak $\blacktriangle$ $\leftrightarrow$ Strong $\blacktriangledown$	✓	✓	✓		
V POSIT	<b>Adjustment:</b> Down $\blacktriangle$ $\leftrightarrow$ Up $\blacktriangledown$	✓	-	-		
H POSIT	<b>Adjustment:</b> Left $\blacktriangle$ $\leftrightarrow$ Right $\blacktriangledown$	✓	-	-		
H PHASE	<b>Adjustment:</b> Left $\blacktriangle$ $\leftrightarrow$ Right $\blacktriangledown$ • Adjust to eliminate flicker.	✓	-	-		
H SIZE	<b>Adjustment:</b> Small $\blacktriangle$ $\leftrightarrow$ Large $\blacktriangledown$ • 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	<b>Adjustment:</b> Soft $\blacktriangle$ $\leftrightarrow$ Clear $\blacktriangledown$	-	-	✓		
COLOR	<b>Adjustment:</b> Light $\blacktriangle$ $\leftrightarrow$ Dark $\blacktriangledown$	-	-	✓		
TINT	<b>Adjustment:</b> Red $\blacktriangle$ $\leftrightarrow$ Green $\blacktriangledown$ • Valid only when NTSC or NTSC 4.43 signal is received.	-	-	✓		
COLOR BAL R	<b>Adjustment:</b> Light $\blacktriangle$ $\leftrightarrow$ Dark $\blacktriangledown$	✓	✓	✓		
COLOR BAL B	<b>Adjustment:</b> Light $\blacktriangle$ $\leftrightarrow$ Dark $\blacktriangledown$	✓	✓	✓		
ASPECT	<b>Select Image Aspect Ratio :</b> 4:3[ $\square$ ] $\blacktriangle$ $\leftrightarrow$ $\blacktriangledown$ 16:9[ $\square$ ]	✓	✓	-		
	<b>Select Position of Image:</b> Press the $\blacktriangledown$ button while 16:9[ $\square$ ] is selected. Center $\rightarrow$ $\blacktriangledown$ Down $\rightarrow$ $\blacktriangledown$ Up ( $\rightarrow$ Center $\blacktriangledown$ )					
ASPECT	<b>Select Image Aspect Ratio:</b> 4:3[ $\square$ ] $\blacktriangle$ $\leftrightarrow$ $\blacktriangledown$ 16:9[ $\square$ ] $\blacktriangle$ $\leftrightarrow$ $\blacktriangledown$ 4:3 small[ $\square$ ]	-	-	-	-	✓
	<b>Select Position of Image :</b> Press the $\blacktriangledown$ button while 16:9[ $\square$ ] / 4:3 small[ $\square$ ] is selected. Center $\rightarrow$ $\blacktriangledown$ Down $\rightarrow$ $\blacktriangledown$ Up ( $\rightarrow$ Center $\blacktriangledown$ ) • 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  $\blacktriangle$  and  $\blacktriangledown$  buttons, and start or stop operation with the  $\odot$  and  $\ominus$  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.

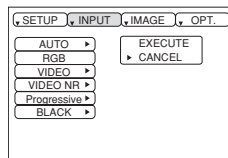


Table 5. Input Menu

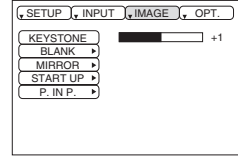
Item	Description
AUTO	<p><b>Automatic Adjustment at RGB Input:</b> Select the EXECUTE with the <math>\blacktriangle</math> button. Horizontal position (H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size (H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display.</p> <p><b>Automatic Adjustment at Video Input:</b> Select the EXECUTE with the <math>\blacktriangle</math> 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.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• This function is the same as for the AUTO function in Basic operation.</li> </ul>
RGB	<p><b>Displays RGB Input Frequency:</b> Displays the horizontal and vertical sync signal frequencies for RGB input.</p> <ul style="list-style-type: none"> <li>• Valid only at RGB input.</li> </ul>
VIDEO (**)	<p><b>Select Video Signal Type:</b> Select the signal type with the <math>\blacktriangle</math> and <math>\blacktriangledown</math> 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.</p> <ul style="list-style-type: none"> <li>• Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color) at VIDEO/S-VIDEO input.</li> <li>• Automatic Adjustment requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem except for the N-PAL input.</li> <li>• 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.</li> </ul>
VIDEO NR (**)	<p><b>Set/Clear Noise Reduction Mode:</b> Select the TURN ON / TURN OFF with the <math>\blacktriangle</math>/<math>\blacktriangledown</math> button. When the TURN ON is selected, the NR mode is active and the noise on screen of the video input will be reduced.</p>
Progressive (**)	<p><b>Select Progressive Mode:</b> Select the mode suitable for the input signal with the <math>\blacktriangle</math> and <math>\blacktriangledown</math> buttons. The TV mode and the CINEMA mode convert the interlaced video signal into the progressive signal. The CINEMA mode is adaptable 2-3 Pull-Down system to the conversion.</p> <ul style="list-style-type: none"> <li>• Use this function to raise resolution, at the interlaced video input except HDTV signal.</li> </ul>
BLACK(**)	<p><b>Set/Clear Black Enhancement Mode:</b> Select the TURN ON / TURN OFF with the <math>\blacktriangle</math>/<math>\blacktriangledown</math> 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.</p>

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# 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 operation.



**Table 6. Image Menu**

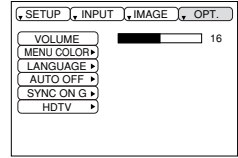
Item	Description
KEYSTONE	<p><b>Keystone Adjustment:</b>            Reduce size of bottom of image <b>↵</b> ↔ Reduce size of top of image <b>⇨</b>            • When this function is activated, the image may not be displayed correctly with some input signals.</p>
BLANK	<p><b>Select Blank Screen Color:</b> Select color with the <b>↵</b> and <b>⇨</b> buttons.            • The image is cleared when the BLANK mode is set with BLANK ON, or when there is no signal, and the entire screen is displayed in the selected color.</p>
MIRROR	<p><b>Operation Start/Stop:</b> Press the <b>⇨</b> or <b>↵</b> button.  <b>Select Mirror Status:</b> Select mirror status with <b>▲</b> and <b>▼</b> buttons.</p>
START UP	<p><b>Operation Start/Stop:</b> Press the <b>⇨</b> or <b>↵</b> button.  <b>Setup Initial Screen Display:</b> Select TURN ON with the <b>▲</b> button.  <b>Clear Initial Screen Display:</b> Select TURN OFF with the <b>▼</b> button.            • Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.</p>
P. IN P.	<p><b>Operation Start/Stop:</b> Press the <b>⇨</b> or <b>↵</b> button.  <b>Select Position of P. in P. Display :</b> Press the <b>▲</b> or <b>▼</b> button.              • Valid only at RGB IN 1, RGB IN 2 or DIGITAL input.</p>



# 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 operation. 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.



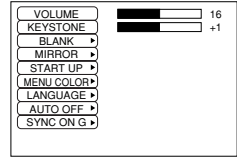
**Table 7. Options Menu**

Item	Description
VOLUME	<b>Volume Adjustment:</b> Reduce VOLUME <b>◀</b> ↔ Increase VOLUME <b>▶</b>
MENU COLOR	<b>Select Menu Background Color:</b> Select with the <b>▶</b> and <b>◀</b> buttons.
LANGUAGE	<b>Operation Start/Stop:</b> Press the <b>▶</b> or <b>◀</b> button. <b>Select Menu Display Language:</b> Select with the <b>▲</b> and <b>▼</b> buttons.
AUTO OFF	<b>Operation Start/Stop:</b> Press the <b>▶</b> or <b>◀</b> button. <b>Set AUTO OFF:</b> Set 1~99 minutes with the <b>▲</b> and <b>▼</b> buttons. The system automatically enters the standby mode when a signal is not received for the set time. <b>Clear AUTO OFF:</b> Select STOP (0 min.) with the <b>▼</b> button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	<b>Operation Start/Stop:</b> Press the <b>▶</b> or <b>◀</b> button. <b>SYNC ON G Valid:</b> Select TURN ON with the <b>▲</b> button. <b>SYNC ON G Invalid:</b> Select TURN OFF with the <b>▼</b> 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.
HDTV (**)	<b>Select HDTV mode:</b> Select the 1035i mode or 1080i mode suitable for the input signal with the <b>▲</b> / <b>▼</b> button.

# 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.



**Table 8. No Signal Menu**

Item	Description
VOLUME	<p><b>Volume Adjustment:</b> Reduce VOLUME ◀ ↔ Increase VOLUME ▶</p> <ul style="list-style-type: none"> <li>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.</li> </ul>
KEYSTONE	<p><b>Keystone Adjustment:</b> Reduce the size of bottom of image ◀ ↔ Reduce the size of top of image ▶</p>
BLANK	<p><b>Select Blank Screen Color:</b> Select the color with the ◀ and ▶ buttons.</p> <ul style="list-style-type: none"> <li>When the blank mode is set with BLANK ON, by absence of a signal, or by input of a non-standard signal, the image is cleared and the complete screen is displayed in the selected color.</li> </ul>
MIRROR	<p><b>Operation Start/Stop:</b> Press the ▶ or ◀ button.  <b>Select Mirror Status:</b> Select the mirror status with the ▲ and ▼ buttons.</p>
START UP	<p><b>Operation Start/Stop:</b> Press the ▶ or ◀ button.  <b>Setup Initial Screen Display:</b> Select the TURN ON with the ▲ button.  <b>Clear Initial Screen Display:</b> Select the TURN OFF with the ▼ button.</p> <ul style="list-style-type: none"> <li>Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.</li> </ul>
MENU COLOR	<p><b>Select Menu Background Color:</b> Select the color with the ▶ and ◀ buttons.</p>
LANGUAGE	<p><b>Operation Start/Stop:</b> Press the ▶ or ◀ button.  <b>Select Menu Display Language:</b> Select the language with the ▲ and ▼ buttons.</p>
AUTO OFF	<p><b>Operation start/stop:</b> Press the ◀ or ▶ button.  <b>Set AUTO OFF:</b> 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.  <b>Clear AUTO OFF:</b> 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.</p>
SYNC ON G	<p><b>Operation Start/Stop:</b> Press the ▶ or ◀ button.  <b>SYNC ON G Valid:</b> Select the TURN ON with the ▲ button.  <b>SYNC ON G Invalid:</b> Select the TURN OFF with the ▼ button.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>

# MAINTENANCE

## Lamp



**HIGH VOLTAGE  
HIGH TEMPERATURE  
HIGH PRESSURE**

Contact your dealer before replacing the lamp.

For the optional lamp, see the item “Option Parts” of the Table 12.

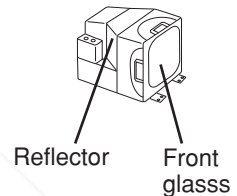
Before replacing the lamp, switch power OFF, remove the power cord from the power outlet, and wait approximately 45 minutes until the lamp has cooled. The lamp may explode if handled at high temperatures.



**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.
- 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**



### 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.



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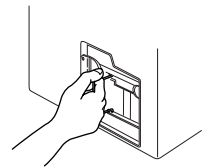
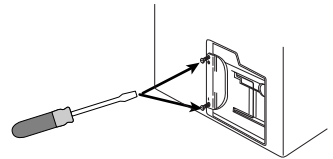
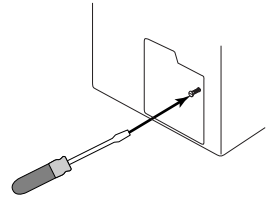
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# MAINTENANCE (continued)

## Replacing the Lamp


1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool.
2. Prepare a new lamp.
3. Check that the projector has cooled sufficiently, and gently turn it upside down.
4. Loosen the screw 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.

# MAINTENANCE (continued)

## Air Filter Maintenance

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

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

- ⚠ 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.



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# 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

POWER indicator	LAMP indicator	TEMP indicator	Contents
Lights orange	Turns off	Turns off	The Standby mode has been set.
Blinks green	Turns off	Turns off	Warming up. Please wait.
Lights green	Turns off	Turns off	ON. Normal operation possible.
Blinks orange	Turns off	Turns off	Cooling. Please wait.
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 [O] and wait for 20 minutes until the equipment has cooled sufficiently.




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# 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
Video is blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	9,12



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# SPECIFICATIONS

Table 12. Specifications

Item		Specification	
Product name		Liquid crystal projector	
Liquid crystal panel	Panel size	3.3 cm (1.3 type)	
	Drive system	TFT active matrix	
	Pixels	786,432 pixels (1024 horizontal x 768 vertical)	
Lens		Zoom lens F=1.7 ~ 2.3 f=49.0 ~ 64.0 mm	
Lamp		250 W UHB	
Speaker		1.2 W + 1.2W (Stereo)	
Power supply		AC100 ~ 120V, 4.5A / AC220 ~ 240V, 2.2A	
Power consumption		400W	
Temperature range		0 ~ 35°C (Operating)	
Size		289 (W) x 124 (H) x 350 (D) mm	
Weight (mass)		6.4 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	Composite sync.: TTL level D-sub 15-pin shrink jack
	DIGITAL		TMDS, DC: 150~1200 mV / AC: 1.56 Vp-p TTL Level (Positive/Negative)
	AUDIO IN	RGB1	200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack
DIGITAL			
RGB2			
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)
		CB/CR	0.7 Vp-p, 75 Ω Terminator (Positive)
		PB/PR	1.0 Vp-p, 75 Ω Terminator (Positive)
	AUDIO	L	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack
R			
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: DT00341 Air Filter: MU0832 * For others, consult your dealer.

**NOTE** • This specifications are subject to change without notice.

# WARRANTY AND AFTER-SERVICE

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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. If repairs are possible, and desirable, they will be charged.



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