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Liquid Crystal Projector

USER'S MANUAL

Thank you for purchasing this liquid crystal projector.



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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For "TECHNICAL" and "REGULATORY NOTICE", see the end of this manual.

FEATURES

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

- **Outstanding brightness**

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

- **Partial magnification function**

Interesting parts of images can be magnified for closer viewing.

- **Distortion correction function**

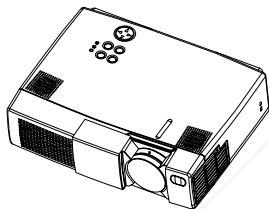
Distortion-free images are quickly available.

BEFORE USE

Contents of package

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

NOTE: Keep the original packing material for future reshipment.



Projector



**Power Cord
US Type**



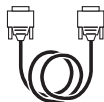
**Power Cord
UK Type**



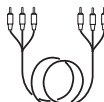
**Power Cord
Europe Type**



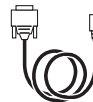
**User's Manual
(this manual)**



RGB Cable



Video/Audio Cable



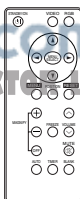
**Mouse cable
(PS/2)**



Handle



Safety Instructions

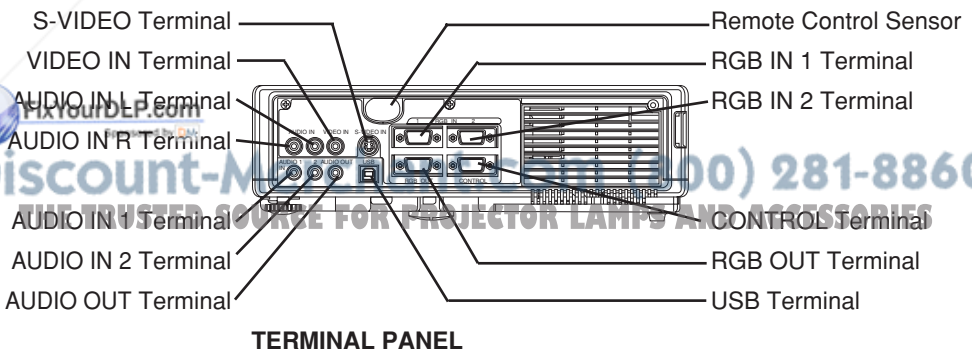
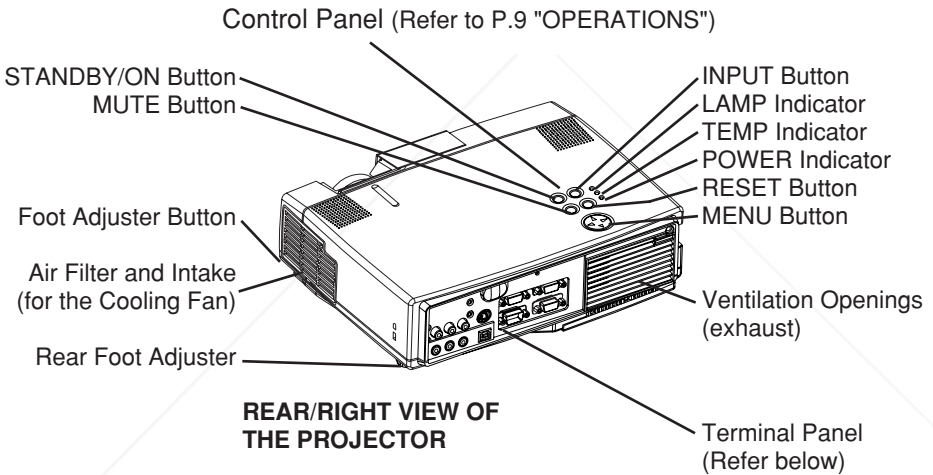
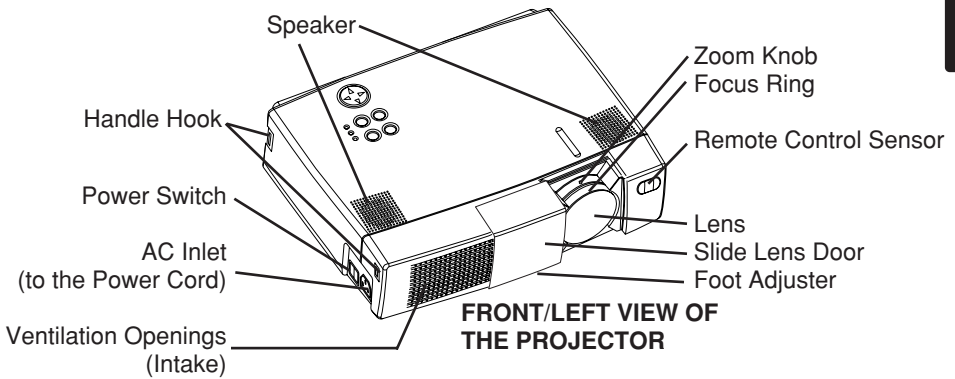


**Remote Controller
containing Battery**

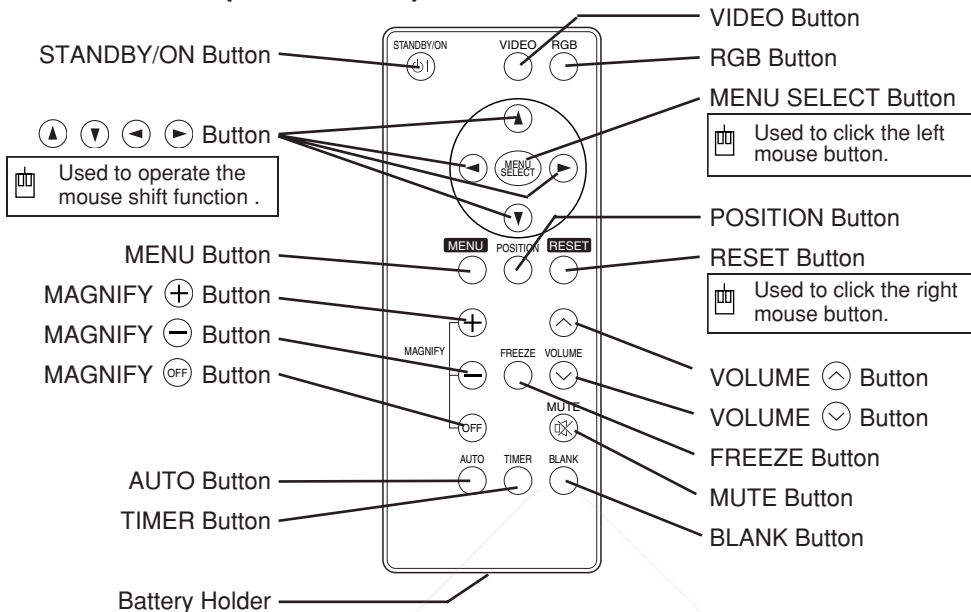


Carrying Bag

Part Names




Part Names (continued)



REMOTE CONTROL TRANSMITTER

(Refer to P.9 "OPERATIONS")

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

NOTE: To prevent any malfunction;

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



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Loading the Battery

CAUTION

Danger of explosion if battery is incorrectly replaced.

Be careful in handling the battery according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.



Replace only with the same or equivalent type recommended by the manufacturer.

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

When you dispose the battery, you must obey the law in the relative area or country.

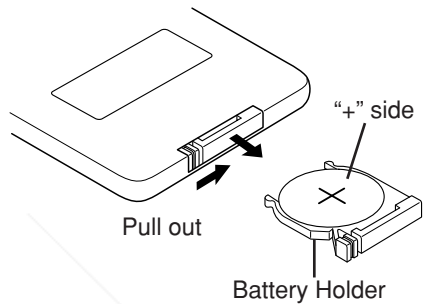
Keep the battery away from children and pets.

First Loading:

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

Replacing:

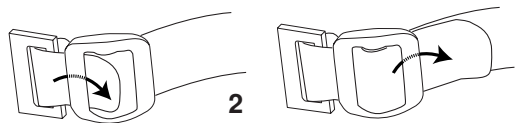
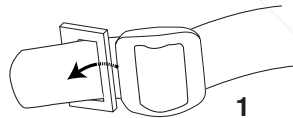
1. See the reverse side of the remote controller.
2. Pinch the groove and pull out battery holder as the drawing right.
3. Remove the worn battery.
4. Install the new battery with "+" side facing.
5. Push in and click the battery holder.



Fixing the Handle

Fix the enclosed handle if you need.

1. Raise up the handle hook, and pass one end of the handle through the hole of handle hook.
2. Buckle the end of the handle, as the right drawing.
3. Fix the other end of the handle to the other handle hook in the same way.



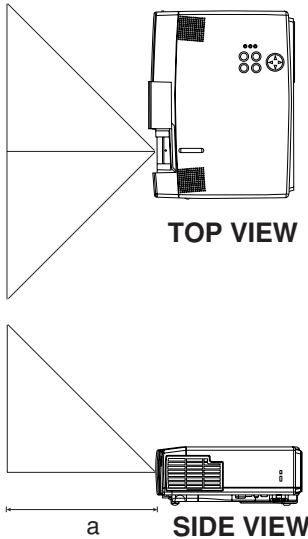
CAUTION

Make sure the handle is fixed before carrying the projector with the handle. If the projector should be dropped from the handle should be off, it could result in an injury, and continued use could result in fire or electrical shock. Do not flourish the projector with the handle.

INSTALLATION

Installation of the Projector and Screen

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



a: Distance from the LCD projector to the screen.
The projection distances shown in the table below are for full size (800 x 600 dots).

Table 1. Installation Reference

Screen size (inches)	a (inches)	
	Min.	Max.
40	65	78
60	98	117
80	131	157
100	163	196
120	196	236
150	246	295
200	328	394

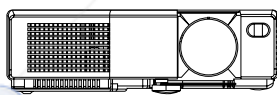
CAUTION



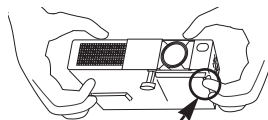
- Install the projector in a suitable environment according to instructions of the accompanying manual “SAFETY INSTRUCTIONS” and this manual.
- Please basically use liquid crystal projector at the horizontal position. If you use liquid crystal projector by the lens up position, the lens down position 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.

Angle Adjustment

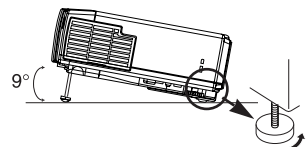
Use the foot adjuster on the bottom of the projector to adjust the projection angle. It is variable within 0° to 9° approximately.



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Foot Adjuster



Press the foot adjuster button



9°
Rear Foot Adjuster

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. Turn the rear foot adjuster to adjust the left-right slope.

CAUTION



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

Cabling

RGB signal input:

Connect the RGB IN 1 or 2 terminal of the projector to the RGB signal output of the computer by the enclosed RGB cable.

For some modes, the optional Mac adapter is necessary. Consult your dealer to connect with the Apple computer.

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

Audio signal input (from computer) :

Connect the AUDIO IN 1 or 2 terminal of the projector to the audio signal output of the computer by the optional audio cable.

Video signal input:

Connect the VIDEO IN terminal of the projector to the video signal output of the video tape recorder by the enclosed video/audio cable except for S-Video signal.

For S-Video signal, use the S-VIDEO IN terminal of the projector and the optional S-Video cable with Mini DIN 4-pin jack.

Audio signal input (from video tape recorder) :

Connect the AUDIO IN R and L terminals of the projector to the audio output of the video tape recorder by the enclosed video/audio cable with RCA jack.

RGB signal output:

Connect the RGB OUT terminal of the projector to the RGB signal input terminal of the monitor by the optional RGB cable with D-sub 15-pin shrink jack and inch thread screws.

Audio signal output:

Connect the AUDIO OUT terminal of the projector to the audio signal input terminal of the speaker by the optional audio cable with stereo mini jack.

PS/2, ADB , Serial or RS-232C communication:

Connect the CONTROL terminal of the projector to the computer by an appropriate cable.

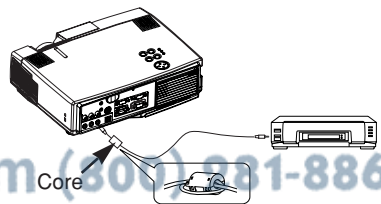
For PS/2 mouse control (for IBM and compatible) use the enclosed mouse cable. For others, consult your dealer.

USB communication (mouse control only):

Connect the USB jack (B type) of the projector to the USB jack (A type) of the computer by optional USB cable.

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 (Power cord, RGB cable and other 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 the instruction manuals of the devices to be connected, and make sure that the projector is compatible with the device.
- Secure the screws on the D-sub connectors and tighten.
- Refer to the TECHNICAL section for the pin assign of connectors and RS-232C communication data.

INSTALLATION (continued)

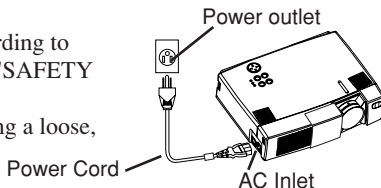
Power Connection

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.

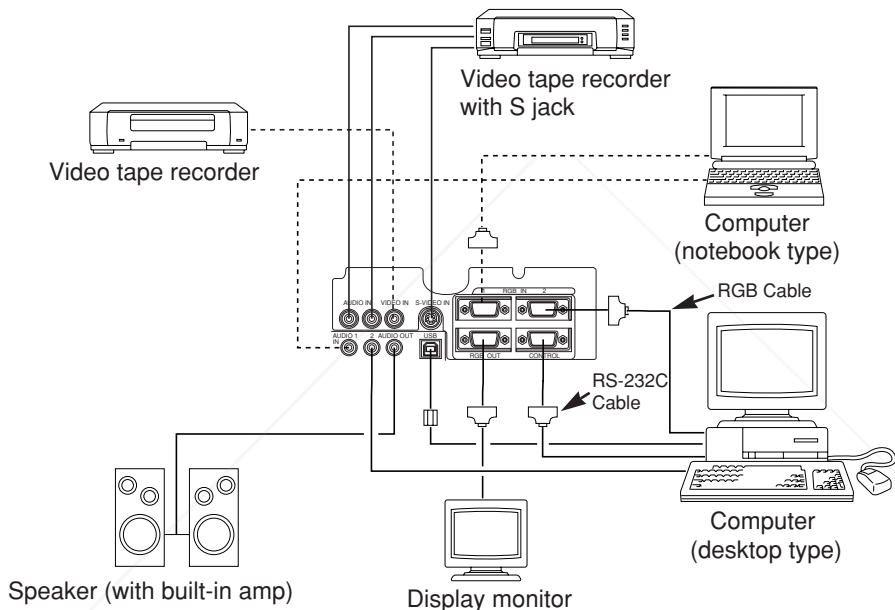
WARNING



- 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, unsound 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.

(Plug & play is a system configured with peripheral equipment including a computer and display, and an operating system.)

NOTE:

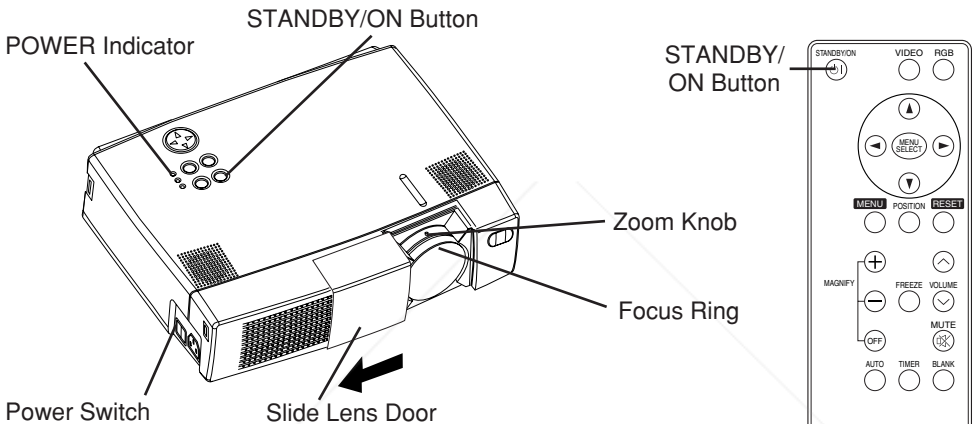
- Use the RGB cable included with this projector when using plug & play. With other cables, pins (12), (15) are sometimes not connected.
- Plug & play is available only when the RGB cable is connected to the RGB IN 1 terminal.

OPERATIONS

Switching the Power Supply ON/OFF

Switching 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. Open the slide lens door.
5. Adjust picture size using the projection lens Zoom Knob.
6. Adjust focus using the projection lens Focus Ring.



Switching Power OFF

1. Press the STANDBY/ON (Ⓛ) button on the control panel or the remote control transmitter for approximately two seconds. 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 [O].

The Power indicator is extinguished when power is off. Do not forget to close the lens door.

WARNING



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

NOTE:

- Except in emergencies, do not turn off unless the Power indicator is orange as it will reduce the life of the projector lamp.
- To prevent any 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 2 is performed from the projector control panel or the supplied remote control transmitter. (items indicated by * may be used from the control panel)

NOTE: Use the remote control transmitter at a distance of approximately 3m from the sensor on the front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote control transmitter.

Table 2 . Basic Operation

Item	Description
INPUT SELECT	<p>Changes in input signal in sequence: Press INPUT ⊖ button.* RGB1 → RGB2 → VIDEO → S-VIDEO (→ RGB1) Select RGB input: Press RGB button. VIDEO/S-VIDEO → RGB1/RGB2 RGB2 ↔ RGB1 Select VIDEO/S-VIDEO input: Press VIDEO button. RGB1/RGB2 → VIDEO/S-VIDEO S-VIDEO ↔ VIDEO</p> <ul style="list-style-type: none"> The selected signal name is displayed for approximately three seconds when the input signal is changed.
POSITION	<p>Set/Clear position adjustment mode: Press POSITION button. The [] icon is displayed in the POSITION mode. Image position adjustment: Press the ◀, ▶, ▲ and ▼ buttons in the position adjustment mode.</p> <ul style="list-style-type: none"> Valid only in the MAGNIFY mode with VIDEO/S-VIDEO input. The [] icon is extinguished, and the position adjustment mode cleared automatically, after approximately ten seconds of inactivity. ◀, ▶, ▲ and ▼ buttons may operate as the mouse control button. Refer to P.4.
RESET *	<p>Initialise menu items: Select an item and press the RESET ⊖ button. Initialise position adjustment: Press the RESET ⊖ button and the POSITION mode. Valid only when RGB signal is input.</p> <ul style="list-style-type: none"> Valid except for VOLUME, LANGUAGE and H PHASE. RESET button may operate as the mouse control button. Refer to P.4.
MAGNIFY	<p>Set MAGNIFY mode: Press the MAGNIFY ⊕ button. Move magnified area: Run Position Adjustment in MAGNIFY mode. Adjust magnification: Press MAGNIFY ⊕ / ⊖ in MAGNIFY mode. Clear MAGNIFY mode: Press MAGNIFY OFF button.</p> <ul style="list-style-type: none"> MAGNIFY is cleared by running or setting AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.
FREEZE	<p>Set/Clear FREEZE mode: Press FREEZE button. The [] icon is displayed, and the image frozen, in the FREEZE mode.</p> <ul style="list-style-type: none"> FREEZE is cleared by running or setting POSITION, VOLUME, MUTE, Auto Adjust, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal. Do not forget to clear frozen static images.



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OPERATIONS (continued)

Table 2. Basic Operation (continued)

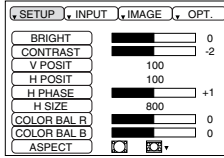
Item	Description
VOLUME	Volume adjustment : Reduce VOLUME ☹ ↔ Increase VOLUME ☺
MUTE *	Set/Clear Mute mode: Press the MUTE ☹ button. No sound is heard in the MUTE mode.
AUTO	Automatic adjustment at RGB input: Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT),clock phase (H.PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic adjustment at VIDEO/S-VIDEO input: Press the AUTO button. A signal type appropriate for the input signal is selected automatically. Valid only when AUTO is set for VIDEO on the menu. • This operation requires approximately ten seconds. It may not function correctly with some input signals.
TIMER ON/OFF	Timer start/stop: Press the TIMER button. Count-down and display by the minute from the initial value (1~99) set in TIMER on the Options menu to 0. • The timer is not displayed in the BLANK MODE or FREEZE MODE.
BLANK ON/OFF	Set/Clear Blank mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu.
MENU ON/OFF *	Menu display start/stop: Press the MENU button. • The menu display is terminated automatically after approximately ten seconds of inactivity.
MENU SELECT	Select menu type: Press the MENU SELECT button. Allows the user to select the normal menu or the single menu. Only the selected item is displayed on the single menu, and other items are displayed with the ▲ and ▼ buttons as with the normal menu. • Valid only when the Setup menu is used. Push the MENU SELECT button after selecting items such as "BRIGHTNESS". • MENU SELECT button may operate as the mouse control button. Refer to P.4.

The diagram illustrates the process of switching between menu types. On the left is a 'Normal menu' showing a list of settings: Contrast, Brightness, Color, H. Posit, V. Posit, H. Phase, H. Size, and S-Video. On the right is a 'Single menu' showing only the 'Contrast' setting. A double-headed arrow labeled '(MENU SELECT)' connects the two menus, indicating that pressing the MENU SELECT button toggles between the full list and the single-item view.

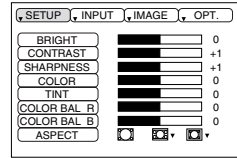
OPERATIONS (continued)

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/S-VIDEO input. Select an item with the \blacktriangle and \blacktriangledown buttons, and start operation. Use the Single menu to reduce menu size (see Table 2, MENU SELECT).



RGB



VIDEO/S-VIDEO

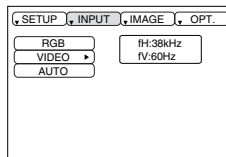
Table 3. Setup Menu

Item	Description	RGB	VIDEO S-VIDEO
BRIGHT	Adjustment: Dark \blacktriangleleft \leftrightarrow Light \blacktriangleright	✓	✓
CONTRAST	Adjustment: Weak \blacktriangleleft \leftrightarrow Strong \blacktriangleright	✓	✓
V POSIT	Adjustment: Down \blacktriangleleft \leftrightarrow Up \blacktriangleright	✓	-
H POSIT	Adjustment: Left \blacktriangleleft \leftrightarrow Right \blacktriangleright	✓	-
H PHASE	Adjustment: Left \blacktriangleleft \leftrightarrow Right \blacktriangleright • Adjust to eliminate flicker.	✓	-
H SIZE	Adjustment: Small \blacktriangleleft \leftrightarrow Large \blacktriangleright • The image may not be displayed correctly if the horizontal size is excessive. In such cases, press the RESET \square button, and initialize the horizontal size.	✓	-
SHARPNESS	Adjustment: Soft \blacktriangleleft \leftrightarrow Clear \blacktriangleright	-	✓
COLOR	Adjustment: Light \blacktriangleleft \leftrightarrow Dark \blacktriangleright	-	✓
TINT	Adjustment: Red \blacktriangleleft \leftrightarrow Green \blacktriangleright • Valid only when NTSC or NTSC 4.43 signal is received.	-	✓
COLOR BAL R	Adjustment: Light \blacktriangleleft \leftrightarrow Dark \blacktriangleright	✓	✓
COLOR BAL B	Adjustment: Light \blacktriangleleft \leftrightarrow Dark \blacktriangleright	✓	✓
ASPECT	Select image aspect ratio: 4:3 \square \blacktriangleleft \leftrightarrow \blacktriangleright 16:9 \square Select position of image: Press \blacktriangledown button while 16:9 \square is selected. Center \rightarrow \blacktriangledown Down \rightarrow \blacktriangledown Up (\rightarrow Center \blacktriangledown) Select image aspect ratio: 4:3 \square \blacktriangleleft \leftrightarrow 16:9 \square \blacktriangleleft \leftrightarrow \blacktriangleright 4:3 small \square Select position of image: Press \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 \uparrow and \downarrow buttons, and start or stop operation with the \leftarrow and \rightarrow buttons.



ENGLISH

Table 4. Input Menu

Item	Description
RGB	Displays RGB input frequency: Displays the horizontal and vertical sync signal frequency for RGB input. <ul style="list-style-type: none">• Valid only at RGB input.
VIDEO	Select video signal type: Select the signal type with the \uparrow and \downarrow buttons. Select NTSC, PAL, SECAM, NTSC4.43, M-PAL, or N-PAL as appropriate for the input signal. Auto Adjust is valid at VIDEO/S-VIDEO input when AUTO is selected, and is then used for automatic selection of the signal type. <ul style="list-style-type: none">• Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color).• Auto Adjust requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem.
AUTO	Automatic adjustment at RGB input: Select EXECUTE with the \rightarrow button. Horizontal position, vertical position, clock phase, and horizontal size are automatically adjusted when EXECUTE is selected. Use with the window at maximum size in the application display. Automatic adjustment at VIDEO/S-VIDEO input: Select EXECUTE with the \rightarrow button. A signal type appropriate for the input signal is selected automatically when EXECUTE is selected. Valid only if AUTO is selected in VIDEO (see above). <ul style="list-style-type: none">• This operation requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem.• This function is the same as for Auto Adjust in Basic operation.

OPERATIONS (continued)

Image Menu

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

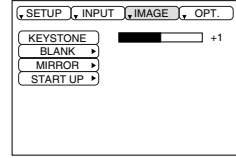


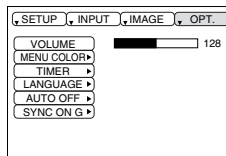
Table 5. Image Menu

Item	Description
KEYSTONE	<p>Adjustment: Reduce size of bottom of image \leftarrow ↔ Reduce size of top of image \rightarrow</p> <ul style="list-style-type: none"> When this function is activated, the image may not be displayed correctly with some input signals.
BLANK	<p>Select blank screen color: Select color with the \leftarrow and \rightarrow buttons.</p> <ul style="list-style-type: none"> 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.
MIRROR	<p>Operation start/stop: Press the \rightarrow or \leftarrow button.</p> <p>Select Mirror status: Select mirror status with \uparrow and \downarrow buttons.</p>
START UP	<p>Operation start/stop: Press the \rightarrow or \leftarrow button.</p> <p>Setup initial screen display: Select TURN ON with the \uparrow button.</p> <p>Clear initial screen display: Select TURN OFF with the \downarrow button.</p> <ul style="list-style-type: none"> Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.

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.



ENGLISH

Table 6. Options Menu

Item	Description
VOLUME	Volume adjustment: Reduce VOLUME ◀ ↔ Increase VOLUME ▶
MENU COLOR	Select menu background color: Select with the ▶ and ◀ buttons.
TIMER	Operation start/stop: Press the ▶ or ◀ button. Setup initial timer value: Set 1~99 minutes with the ▲ and ▼ buttons.
LANGUAGE	Operation start/stop: Press the ▶ or ◀ button. Select menu display language: Select with the ▲ and ▼ buttons.
AUTO OFF	Operation start/stop: Press the ▶ or ◀ button. Set AUTO OFF: Set 1~99 minutes with the ▲ and ▼ buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the ▼ button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	Operation start/stop: Press the ▶ or ◀ button. SYNC ON G valid: Select TURN ON with the ▲ button. SYNC ON G invalid: Select TURN OFF with the ▼ button. • May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal.



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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.

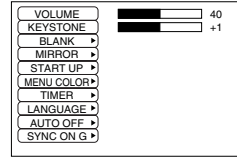


Table 7. No Signal Menu

Item	Description
VOLUME	Volume adjustment: Reduce VOLUME ◀ ↔ Increase VOLUME ▶
KEYSTONE	Adjustment: Reduce size of bottom of image ◀ ↔ Reduce size of top of image ▶
BLANK	Select blank screen color: Select color with the ◀ and ▶ buttons. • 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 colour.
MIRROR	Operation start/stop: Press the ▶ or ◀ button. Select Mirror status: Select mirror status with ▲ and ▼ buttons.
START UP	Operation start/stop: Press the ▶ or ◀ button. Setup initial screen display: Select TURN ON with the ▲ button. Clear initial screen display: Select TURN OFF with the ▼ button. • Note that if TURN OFF is selected the blank screen is displayed in blue when there is no signal.
MENU COLOR	Select menu background color: Select with the ▶ and ◀ buttons.
TIMER	Operation start/stop: Press the ▶ or ◀ button. Setup initial timer value: Set 1~99 minutes with the ▲ and ▼ buttons.
LANGUAGE	Operation start/stop: Press the ▶ or ◀ button. Select menu display language: Select with the ▲ and ▼ buttons.
AUTO OFF	Operation start/stop: Press the ▶ or ◀ button. Set AUTO OFF: Set 1~99 minutes with the ▲ and ▼ buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the ▼ button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	Operation start/stop: Press the ▶ or ◀ button. SYNC ON G valid: Select TURN ON with the ▲ button. SYNC ON G invalid: Select TURN OFF with the ▼ button. • May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal.

MAINTENANCE

Lamp

ENGLISH



**HIGH VOLTAGE
HIGH TEMPERATURE
HIGH PRESSURE**

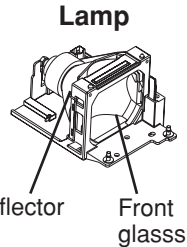
Contact your dealer before replacing the lamp.

(Option lamp: DT00331)

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.



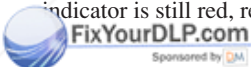
Lamp Life

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 (see P.20 Table 8) appears when the projector is switched ON.

NOTE:

The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power OFF, wait approximately 20 minutes, and switch power ON again. If the LAMP indicator is still red, replace the lamp.

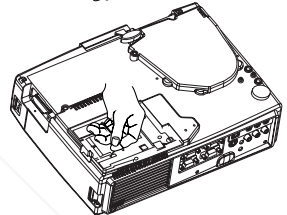
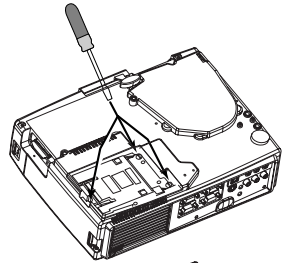
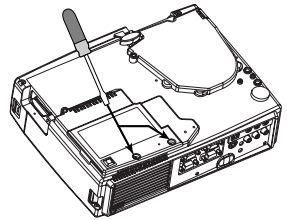


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MAINTENANCE (continued)

Replacing the Lamp

1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool.
2. Prepare a new lamp.
3. Check that the projector has cooled sufficiently, and gently turn it upside down.
4. Loosen the two screws as shown in the diagram, and remove the lamp cover.
5. Loosen the three 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 three 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 two screws 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 TIMER button on the remote control transmitter, or the RESET  button on the control panel, 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.

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NOTE:

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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.

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. (Option Air filter : MU01421)
- Do not use the equipment with the air filter removed.
- When the air filter is clogged with dust etc. the CHECK AIR FLOW message appears on the screen and 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 8. 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 1700 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 "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 "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.
CHECK THE AIR FLOW FixYourDLP.com Sponsored by D.M.	The internal temperature has risen. Switch power OFF, and wait 20 minutes until the equipment cools. Check the following and Switch power ON again. <ul style="list-style-type: none"> • Are the ventilation openings blocked? • Is the air filter dirty? • Is the ambient temperature in excess of 35°C?



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

Indicators Message

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

Table 9. 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 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.
Lights red	Turns off	Lights red	The interior of the equipment is too hot. *1) Switch power OFF, and wait for 20 minutes until the equipment cools. Check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. Then switch power ON again. Contact your dealer if the same problem occurs again.






*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.

TROUBLESHOOTING (continued)

Symptom

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

Table 10. 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 slide lens door is still closed.	Open the slide lens door.	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

NOTE : This specifications are subject to change without notice.

Table 11. Specifications

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Item		Specification
Product name		Liquid crystal projector
Liquid crystal panel	Panel size	2.3 cm (0.9 type)
	Drive system	TFT active matrix
	Pixels	480,000 pixels (800 horizontal x 600 vertical)
Lens		Zoom lens F=1.7 ~ 2.0 f=37.5 ~ 45.1 mm
Lamp		160 W UHB
Speaker		1.0 W + 1.0W (Stereo)
Power supply		AC100 ~ 120V, 2.8A / AC220 ~ 240V, 1.2A
Power consumption		250W
Temperature range		0 ~ 35°C (Operating)
Size		298 (W) x 94.6 (H) x 228 (D) mm
Weight (mass)		3.25 kg
RGB signal input	RGB IN 1/2	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 IN 1/2	200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack
Video signal input	VIDEO IN	1.0Vp-p, 75Ω terminator RCA jack
	S-VIDEO IN	Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (burst signal), 75Ω terminator Mini DIN 4-pin jack
	AUDIO IN R/L	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack
Signal output	RGB OUT	Video: Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack
	AUDIO OUT	200mVrms, output impedance 1 kΩ (max. 3.0Vp-p) Stereo mini jack
Control functions	CONTROL	D-sub 15-pin shrink plug
	USB	USB jack (B type)



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WARRANTY AND AFTER-SERVICE

If a problem occurs with the equipment, first refer to the P.20 “TROUBLESHOOTING” section and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. If repairs are possible, and desirable, they will be charged.



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