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Visit the site to read the latest projector news and reviews, read and comment on projector specifications, download user manuals and much more.

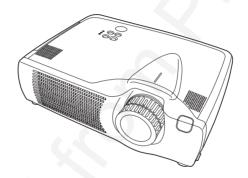


Liquid Crystal Projector

28A8910

USER'S MANUAL

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





About the Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

	^	
		1
/	Ų	1

This symbol indicates information that, if ignored, could Warning possibly result in personal injury or even death due to incorrect handling.



Caution

This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols



This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.



This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).



This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

NOTE: "Remote control transmitter" may be called "Remote controller" in the "USER'S MANUAL".

SAFETY PRECAUTIONS

♠ WARNING

Never use the projector if a problem should occur.

excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this is dangerous this could be dangerous.

Abnormal operations such as smoke, strange odor, no image, no sound,



* The power outlet should be close to the projector and easily accessible.

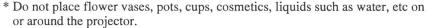
Do not insert liquids or foreign object.

Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present.

If liquids or foreign object should enter the projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.



* Do not expose the projector to rain or moisture.



* Do not place metals, combustibles, etc on or around the projector.

Never modify.

The projector contains high voltage components. Modification could result in fire or electrical shock.

* Never open the cabinet.

* Ask your dealer to repair and clean insider.

Do not give the projector any shock or impact.

If the projector should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

If the projector is shocked, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.



Do not place the projector on an unstable surface.

If the projector should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

- * Do not place the projector on an unstable, slant or vibrant surface such as a wobbly or inclined stand.
- * Use the caster brakes placing the projector on a stand with casters.
- * Do not place the projector in the side up position, the lens up position or the lens down position.



MARNING

Be cautious of High temperatures of the projector.

High temperatures are generated when the lamp is lit. It could result in fire or burn. Use special caution in households where children are present.

Do not touch about the lens, air fans and ventilation openings during use or immediately after use, to prevent a burn. Take care of ventilation.

- * Keep a space of 30 cm or more between the sides and other objects such as walls.
- * Do not place the projector on the metallic table.
- * Do not place anything about the lens, air fans and ventilation openings of the projector.
- * Never block the air fan and ventilation openings.
- * Do not use with the ventilation opening facing downwards.
- * Do not cover the projector with a tablecloth, etc.
- * Do not place the projector on a carpet or bedding.

Never look through the lens or openings when the lamp is on.

The powerful light could adversely affect vision. Use special caution in households where children are present.



Use only the correct power outlet.

Incorrect power supply could result in fire or electrical shock. Use only the correct power outlet depending on the indication on the projector and the safety standard.

* The enclosed power cord must be used depending on the power outlet to be used.



Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

- * Do not touch the power cord with a wet hand.
- * Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- * Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.



Be sure to connect with ground wire.

When you fix this unit with a metal tool and the like, you must connect it with ground wire; otherwise, fire or electric shock can result.

Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using an optional three-core power-supply cord.



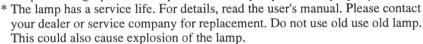
SAIFIETY PIRIECAUTIONS (continued)

↑ WARNING

Be careful in handling the the light source lamp.

Incorrect handling the lamp could result in explosion.

- * Since the lamp is made of glass, do not apply shock to it and not scratch it.
- * When replacing lamp, turn off and remove AC cord, waite 45 minutes to let lamp cool. High-pressure lamp when hot, may explode if improperly handled.





Be careful in handling the power cord and external connection cables.

If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

If the power cord or cables is damaged (exposed or broken core wires, etc.), contact your dealer.

- * Do not place the projector or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.
- * Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.
- * Do not place the cord near the heater.
- * Avoid bending the power cord sharply.
- * Do not attempt to work on the power cord.

Be careful in handling the battery of the remote control transmitter.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

- * Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
- * Do not allow the battery in a fire or water.
- * Avoid fire or high-temperature environment.
- * Do not hold the battery with the metallic tweezers.
- * Keep the battery in a dark, cool and dry play.
- * Do not short circuit the battery.
- * Do not recharge, disassemble or solder the battery.
- * Do not give the battery a physical impact.
- * Use only the battery specified in the user's manual.
- * Make sure the plus and minus terminals are correctly aligned when loading the battery.
- * If you observe a leakage of the battery, wipe out the flower and then replace the battery. If the flower adheres your body or clothes, rinse well with water.
- * Obey the local laws on disposing the battery.





ENGLISH

↑ CAUTION

Be careful in moving the projector.

Neglect could result in an injury or damage.

- * Do not move the projector during use. Before moving, disconnect the power cord and all external connections, and close the slide lens door.
- * Avoid any impact or shock to the projector.
- * For carrying, use the enclosed carrying bag if provided, depending on the manual of the carrying bag.



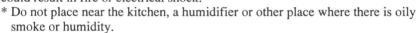
Do not put anything on top of the projector.

Placing anything on the projector could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.



Avoid a humid or dusty place.

Placing the projector in a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.





Avoid a high temperature environment.

The heat could have adverse influence on the cabinet of the projector and other parts. Do not place the projector, the remote control transmitter and other parts in direct sunlight or near a hot object such as heater, etc.



Remove the power cord for complete separation.

- * For safety purposes, disconnect the power cord if the projector is not to be used for prolonged periods of time.
- * Before cleaning, turn off and unplug the projector. Neglect could result in fire or electrical shock.



plug from the power outlet.

Ask your dealer to cleaning inside of the projector about every two years.

Accumulations of dust inside the projector cause result in fire or malfunction. Cleaning inside is more effective if performed before every humid periods such as rainy season.



* Do not clean inside yourself because it is dangerous.

SAFETY PRECAUTIONS (continued)

NOTE

Do not give the remote control transmitter any physical impact.

A physical impact could cause damage or malfunction of the remote control transmitter.

- * Take care not to drop the remote control transmitter.
- * Do not place the projector or heavy objects on the remote control transmitter.

Take care of the lens.

- * Close the slide lens door to prevent the lens surface being scratched when the projector is not used.
- * Do not touch the lens to prevent fog or dirt of the lens that cause deterioration of display quality.
- * Use commercially available lens tissue to clean the lens (used to clean cameras, eyeglasses, etc.). Be careful not to scratch the lens with hard objects.

Take care of the air filter to normal ventilate.

When the air filter becomes clogged with dust, etc., the projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

- * Do not turn on the projector without air filter.
- * If the air filter is damaged or lost, order the air filter specified in the user's manual to your dealer.

Take care of the cabinet and the remote control transmitter.

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

- * Use a soft cloth to clean the cabinet and control panel of the projector and the remote control transmitter. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth. Do not use undiluted detergent directly.
- * Do not use an aerosol sprays, solvents, volatile substances or abrasive cleaner.
- * Before using chemical wipes, be sure to read and observe the instructions.
- * Do not allow long-term close contact with rubber or vinyl.

SAIFIETY IPIRIECAUTIONS (continued)

NOTE

Avoid strong rays.

Any strong ray (such as direct rays of the sun or room lighting) onto the remote control transmitter sensors could invalidate the remote control transmitter.

Avoid radio interference.

Any interfering radiation could cause disordered image or noises.

* Avoid radio generator such as a mobile telephone, transceiver, etc. around the projector.

About displaying characteristic.

The display condition of the projector (such as color, contrast, etc.) depends on characteristic of the screen, because the projector uses a liquid crystal display panel. The display condition can differ from the display of CRT.

* Do not use a polarized screen. It can cause red image.

Turn the power on/off in right order.

To prevent any trouble, turn on/off the projector in right order mentioned below unless specifying.

- * Power on the projector before the computer or video tape recorder.
- * Power off the projector after the computer or video tape recorder.

Take care not to fatigue your eyes.

Rest the eyes periodically.

Set the sound volume at a suitable level to avoid bothering other people.

* It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

Connecting with notebook computer

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.



Liquid Crystal Projector

USER'S MANUAL

Thank you for purchasing this liquid crystal projector.

WARNING • Please read the accompanying manual "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" thoroughly to ensure correct usage through understanding. After reading, store this instruction manual in a safe place for future reference.

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

- The manufacturer assumes no responsibility for any errors that may appear in this manual
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NOTICE", see the end of this manual.

FEATURES

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

Outstanding Brightness

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

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing.

Distortion Correction Function

Distortion-free images are quickly available.

Extra-low Noise Function

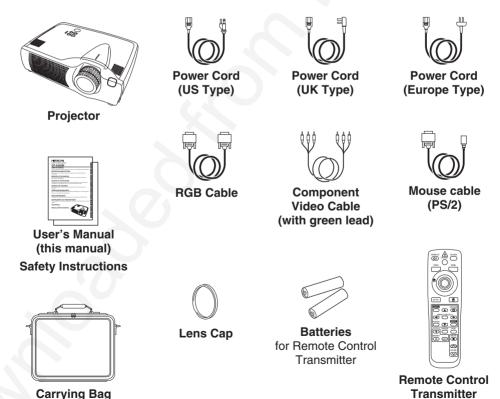
Acoustic noise level from the unit can be reduced.

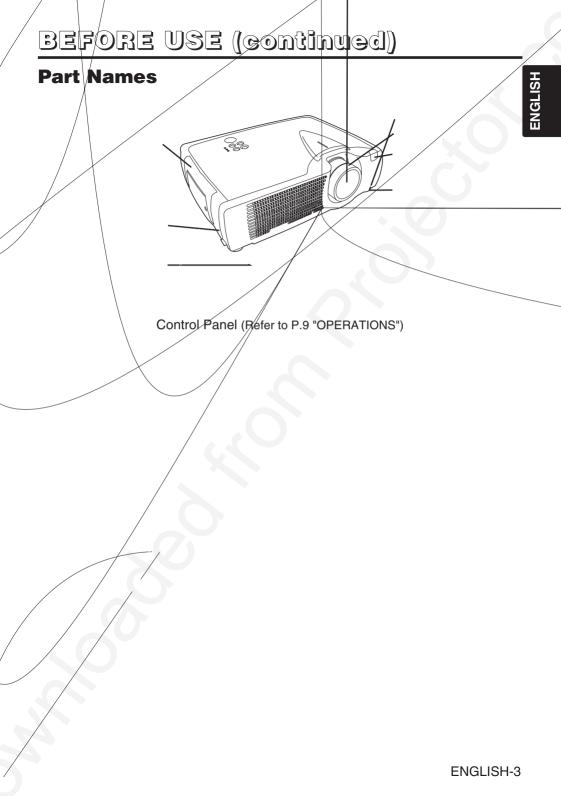
BEFORE USE

Contents of Package

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

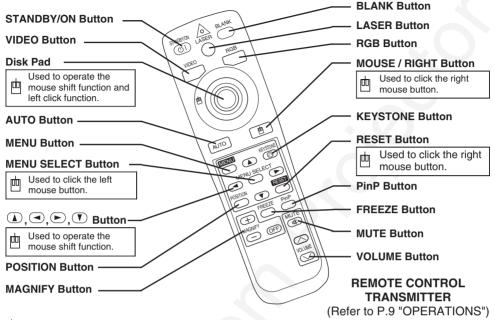
NOTE • Keep the original packing material for future reshipment.



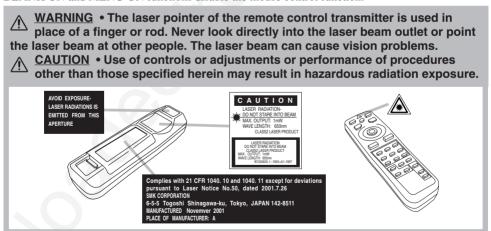


BEFORE USE (continued)

Part Names (continued)



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 • Keep the remote control transmitter away from children and pets.

- 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.

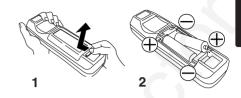
ENGLISH-4

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.



<u>CAUTION</u> • Use only the specified batteries with this remote control transmitter. Also, do not mix new and old batteries. This could cause in battery cracking or leakage, which could result in fire or personal injury.

- When loading the batteries, make sure the plus and minus terminals are correctly oriented as indicated in the remote control transmitter. Incorrect orientation could cause battery cracking or leakage, which could result in personal injury or pollution of the surrounding environment.
- When you dispose the battery, you should obey the law in the relative area or country.
- Keep the battery away from children and pets.
- When not to be used for an extended period, remove the batteries from the remote control transmitter.

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

INSTALLATION

Installation of the Projector and Screen

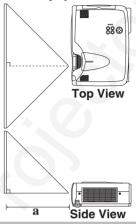
Refer to the drawing and table below for determining of the screen size and projection distance.

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

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

Table 1. Installation Reference

Screen size	a [inches (m)]		
[inches (m)]	Min.	Max.	
40 (1.0)	62 (1.6)	82 (2.1)	
60 (1.5)	94 (2.4)	123 (3.1)	
80 (2.0)	127 (3.2)	164 (4.2)	
100 (2.5)	160 (4.1)	205 (5.2)	
120 (3.0)	192 (4.9)	246 (6.3)	
150 (3.8)	241 (6.1)	308 (7.8)	
200 (5.0)	323 (8.2)	411 (10.4)	



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

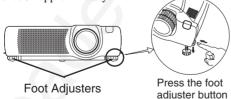
 When you fix this unit with a metal tool and the like, you must connect it with ground wire; otherwise, fire or electric shock can result.

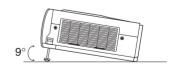
Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using an optional three-core power-supply cord.

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

Angle Adjustment

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





- 1. Lift up the front side of the projector, and pressing the foot adjuster button, adjust the projection angle.
- 2. Release the button to lock at the desired angle.
- 3. 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.

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

 \triangle

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

- Before connecting, turn off to all devices to be connected, except for the USB cable.
- The cables may have to be used with the core set to the projector side. Use the cables which are included with the projector or specified.

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

- Secure the screws on the connectors and tighten.
- For some RGB input modes, the optional Mac adapter is necessary.
- To select the DVI input, the comuter 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 "TECHNICAL" section for the pin assignment of connectors and RS-232C communication data.
- When the DVI terminal is used, the RGB OUT terminal may not function.

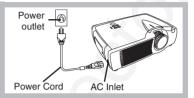
INSTALLATION (continued)

Power Connection

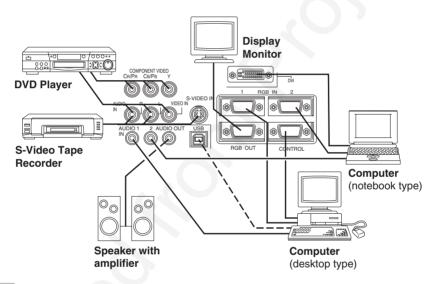
Use the correct one of the enclosed power cords depending on the power outlet to be used. Connect the AC inlet of the projector to the power outlet firmly by the power cord.

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

• Connect the power cord firmly. Avoid using a loose, unsound outlet or contact failure.



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

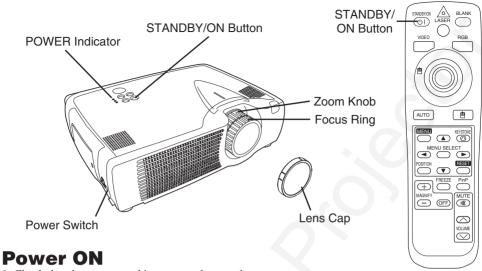
This projector is VESA DDC 1/2B compatible. Plug & play is possible by connecting to a computer that is VESA DDC (Display Data Channel) compatible.

Please use this function by connecting the accessory RGB cable with RGB IN 1 terminal (DDC 1/2B compatible), or by connecting an optional DVI cable with DVI terminal (DDC 2B compatible). Plug & play may not operate by other connecting.

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

- This projector is recognized as a plug & play monitor. Use the standard display drivers.
- Plug & play may not operate by the computer to connect. Use the RGB IN 2 terminal if plug & play does not operate correctly.

OPERATIONS



- 1. Check that the power cord is connected correctly.
- 2. Set the power switch to []. The standby mode is selected, and the POWER indicator is turned to orange.
- 3. Press the STANDBY/ON button ① 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
- 5. Adjust picture size using the zoom knob.
- 6. Adjust focus using the focus ring.

Power OFF

- 1. Press the STANDBY/ON button (6) on the control panel or the remote controller. Then, the message "Power off?" will appear on the screen, and the message will disappear by any operation or no operation for 5 seconds. During this message indication, press the STANDBY/ON (6) button again. The projector lamp is extinguished and lamp cooling begins. The POWER indicator blinks orange during lamp cooling. Pressing the STANDBY/ON button (6) has no effect while the POWER indicator is blinking.
- 2. The system assumes the Standby mode when cooling is complete, and the POWER indicator ceases blinking and changes to orange. Check that the indicator is orange and set the power switch to [O].
- 3. The POWER indicator is extinguished when power is off. Do not forget to 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, follow the above-mentioned procedure for turning power off. Incorrect procedure will reduce the life of the projector lamp and LCD panel.

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

Basic Operation

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

Table 3. Basic Operation

Item	Description
INPUT SELECT	Select Input Signal (*): Press the INPUT button. RGB IN 1→RGB IN 2→DVI→ VIDEO IN → S-VIDEO IN → COMPONENT VIDEO (→ RGB IN 1) Select RGB Input: Press the RGB button. VIDEO IN / S-VIDEO IN / COMPONENT VIDEO → RGB IN 1 / RGB IN 2 / DVI RGB IN 1 → RGB IN 2 → DVI (→ RGB IN 1) Select Video Input: Press the VIDEO button. RGB IN 1 / RGB IN 2 / DVI → VIDEO IN / S-VIDEO IN / COMPONENT VIDEO VIDEO IN → S-VIDEO IN → COMPONENT VIDEO (→ VIDEO IN) • The selected signal name is displayed for approximately 3 seconds when the input signal is changed.
POSITION	Set/Clear Position Adjustment Mode: Press the POSITION button. The [□] icon is displayed in the POSITION mode. Image Position Adjustment: Press the ④, ♠, ♠ and ♠ buttons in the POSITION mode. • Valid only in the MAGNIFY mode with a video signal is input. • After approximately 10 seconds of inactivity the [□] icon is extinguished and the POSITION mode is cleared automatically. • ④, ♠, ♠ and ♠ buttons may operate as the mouse control button. Refer to page 4.
RESET (*)	Initialise Each Item: Select an item and press the RESET button. Initialise Position Adjustment: Press the RESET button and the POSITION mode. This function is valid only when RGB signal is input. • Valid except for the VOLUME, LANGUAGE and H PHASE. • The RESET button may operate as the mouse control button. Refer to page 4.
MAGNIFY	Set MAGNIFY Mode: Press the MAGNIFY ⊕ button. Move Magnified Area: Run the POSITION in the MAGNIFY mode. Adjust Magnification: Press the MAGNIFY ⊕ / ⊜ button in MAGNIFY mode. Clear MAGNIFY Mode: Press the MAGNIFY ⊕ button. • The MAGNIFY mode is cleared by running or setting the AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal.
FREEZE	Set/Clear FREEZE Mode: Press the FREEZE button. The [II] icon is displayed, and the image frozen, in the FREEZE mode. • The FREEZE mode is cleared by running or setting POSITION, VOLUME, MUTE, Automatic Adjustment, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal. • Do not forget to clear frozen static images.

• Strong light and obstacles will interfere with operation of the remote control transmitter.

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

Table 3. Basic Operation (continued)

Item	Description		
VOLUME	Volume Adjustment : Press the VOLUME ⊘ / ⊙ button.		
MUTE	Set/Clear Mute Mode : Press the MUTE button. No sound is heard in the MUTE mode.		
AUTO	Automatic Adjustment at RGB Input: Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic Adjustment at Video Input: Press the AUTO button. A signal type appropriate for the input signal is selected automatically. Valid only when AUTO is set for VIDEO on the menu. • This operation requires approximately 10 seconds. It may not function correctly with some input signals.		
BLANK ON/OFF	Set/Clear Blank Mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu.		
MENU ON/OFF (*)	Menu Display Start/Stop: Press the MENU button. • The menu display is terminated automatically after approximately 10 seconds of inactivity.		
MENU SELECT	Select Menu Type: Press the MENU SELECT button. Allows the user to select the normal menu or the single menu. Only the selected item is displayed on the single menu, and other items are displayed with the and buttons as with the normal menu. • Valid only when the Setup menu is used. Push the MENU SELECT button after selecting items such as "BRIGHTNESS". • The MENU SELECT button may operate as the mouse control button. Refer to page 4.		
	Normal menu Single menu		
	(MENU SELECT)		
P.IN P. MODE	Select Mode of P.IN P. Display : Press the PinP button. Small → Large → P.IN P. off (→ Small) • Valid only at RGB IN 1, RGB IN 2 or DVI input.		
KEYSTONE	Set / Clear KEYSTONE Mode (*): Press the KEYSTONE ⑤ button. Select KEYSTONE Mode: Press the ⑥ / ⑤ button in the KEYSTONE mode. Vertical ⑥ ↔ ⑥ Horizontal Adjust KEYSTONE: Press the ⑤ / ⑥ button.		

Setup Menu

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

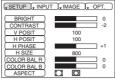






Table 4. Setup Menu

Table 4. Set	up mond			
Item	Description	RGB IN 1 RGB IN 2	DVI	VIDEO S-VIDEO COMPONENT
BRIGHT	Adjustment: Dark	~	~	~
CONTRAST	Adjustment: Weak → Strong •	~	~	~
V POSIT	Adjustment: Down	~	-	-
H POSIT	Adjustment: Left	~	-	-
H PHASE	Adjustment: Left → Right • Adjust to eliminate flicker.	~	-	~
H SIZE	Adjustment: Small → Large • The image may not be displayed correctly if the horizontal size is excessive. In such cases, press the RESET button, and initialize the horizontal size.	~	-	-
SHARPNESS	Adjustment: Soft → Clear →	-	-	~
COLOR	Adjustment: Light	-	-	~
TINT	Adjustment: Red	-	-	~
COLOR BAL R	Adjustment: Light → Dark •	~	V	~
COLOR BAL B	Adjustment: Light	~	~	~
	Select Image Aspect Ratio: Full [\square] \square \leftrightarrow \square 16:9[\square] \square Select Position of Image: Press the \square button while 16:9[\square] is selected. Center \rightarrow \square Down \rightarrow \square Up (\rightarrow Center \square)	V	V	-
ASPECT	Select Image Aspect Ratio: 4:3[□] • → • 16:9[□] • → • 4:3 small[□] Select Position of Image: Press the • button while 16:9[□] / 4:3 small[□] is selected. Center → • Down → • Up (→ Center •) • 4:3 small cannot be selected with the input of 720p or 1080i component. • 4:3 small may not be displayed correctly with some input signals.	-	-	V

Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the ① and ① buttons, and start or stop operation with the ② and ③ 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.

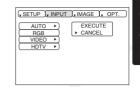


Table 5. Input Menu

Item	Description
AUTO	Automatic Adjustment at RGB Input: Select the EXECUTE with the button. Horizontal position (H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size (H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic Adjustment at Video Input: Select the EXECUTE with the button. A signal type appropriate for the input signal is selected automatically when EXECUTE is selected automatically. Valid only when AUTO is set for VIDEO on the menu. This operation requires approximately 10 seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem. This function is the same as for the AUTO function in Basic operation.
RGB	Displays RGB Input Frequency: Displays the horizontal and vertical sync signal frequencies for RGB input. • Valid only at RGB input.
VIDEO (**)	Select Video Signal Type: Select the signal type with the and buttons. Select NTSC, PAL, SECAM, NTSC4.43, M-PAL, or N-PAL as appropriate for the input signal. The selection of AUTO enables and executes the function AUTO (Automatic Adjustment at Video Input), except for the N-PAL input. • Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color) at VIDEO/S-VIDEO input. • Automatic Adjustment requires approximately 10 seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem except for the N-PAL input. • For the COMPONENT VIDEO input, this function is not effective and the signal type is distinguished automatically. Refer to the item HDTV of the OPT. Menu for the signal of HDTV.
HDTV	Select HDTV mode: Select the 1035i mode or 1080i mode suitable for the input signal with the (a) / (7) button.

Image Menu

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



Table 6. Image Menu

i abie 6. ima	
Item	Description
BLANK	Select Blank Screen: Select the screen in case of the BLANK mode with the ①/① button. The selected one (MyScreen, ORIGINAL or one colors) is displayed when the BLANK mode is ON. MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below. ORIGINAL is a mode that the factory fixed screen is displayed. • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
START UP	Select Start Up Screen: Select the screen in case of no signal input with the ①/▼ button. The selected one (MyScreen, ORIGINAL or TURN OFF) is displayed when no signal is input. My Screen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below. ORIGINAL is a mode that the factory fixed screen is displayed. TURN OFF displays the blue screen. • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.
MyScreen	Set MyScreen Mode: Select the EXECUTE with the button to display the MyScreen menu and set the MyScreen mode for BLANK and START UP functions. ESC clears and closes the menu box. NORM. is default of the MyScreen menu. FREEZE freezes the image and displays the frame to capture. Press the button after freeze to go to the MyScreen Capture Position mode. In the MyScreen Capture Position mode, the buttons Amount of allow to move the frame to capture. After adjusting the position, press the KEYSTONE button to go to the MyScreen Display Size mode. To cancel freezing and return to the NORM. of the MyScreen menu, press the RESET button. In the MyScreen Display Size mode, select the magnification x1, x2 or FULL with the button After selecting the magnification, press the KEYSTONE button to go to the CAPT. mode and start capturing. To return to the MyScreen Capture Position mode, press the RESET button. CAPT. executes a capturing the image. It requires about 20 seconds. After capturing, the captured image will be displayed for about 10 seconds.
MIRROR	Select Mirror Status: Select mirror status with (1) / (1) button.
P. IN P. POSIT	Select Position of P. in P. Display: Press the ▲ or ▼ button. □ ♠♦▼ ■ ♠♦▼ ■ ♠♦▼ ■ • Valid only at RGB IN 1, RGB IN 2 or DVI input.
P. IN P. INPUT	Select signal of P. in P. Display : Press the or button. VIDEO → S-VIDEO
GAMMA	Select Gamma Mode: Select the gamma mode with the ⚠ / ◑ button. NORMAL ⚠↔♥ CINEMA ⚠↔♥ DYNAMIC

Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the ① and ① buttons, and start or stop operation with the ② and ② buttons.

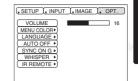


Table 7. Options Menu

Item	Description		
VOLUME	Reduce → Increase		
MENU COLOR	Select Menu Background Color: Select with the 🕞 / 🖪 button.		
LANGUAGE	Select Menu Display Language: Select with the . / 🔻 button.		
AUTO OFF	Set AUTO OFF: Set 1~99 minutes with the ① / ① button. 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 ① button. When STOP is selected the system does not enter the standby mode even if no signal is received.		
SYNC ON G	SYNC ON G Valid: Select TURN ON with the button. SYNC ON G Invalid: Select TURN OFF with the button. May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal.		
WHISPER	Set / Crear WHISPER Mode: Press the /		
IR REMOTE	Select Remote Control Sensor: Select the sensors to activate along the menu with the (a) / (7) button. Use this function if the remote does not work stably. The ambient light may affect the remote. Setup NPUT MAGE OPT		

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. Select an item with the ${}^{\textcircled{}}$ and ${}^{\textcircled{}}$ buttons, and start or stop operation with the ${}^{\textcircled{}}$ and ${}^{\textcircled{}}$ buttons.

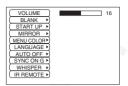


Table 8. No Signal Menu

14510 01 110	Signal Wellu	
Item	Description	
VOLUME	Reduce → Increase 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 / button.	
BLANK	Select Blank Screen: Select the screen in case of the BLANK mode with the ①/① button. The selected one (MyScreen, ORIGINAL or one colors) is displayed when the BLANK mode is ON. MyScreen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below. ORIGINAL is a mode that the factory fixed screen is displayed. • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.	
START UP	Select Start Up Screen: Select the screen in case of no signal input with the ①/① button. The selected one (MyScreen, ORIGINAL or TURN OFF) is displayed when no signal is input. My Screen is a mode that the customer-customized screen is displayed. This is the blue screen at the factory setting. Refer to the description of MyScreen below. ORIGINAL is a mode that the factory fixed screen is displayed. TURN OFF displays the blue screen. • When MyScreen or ORIGINAL is selected, the screen is going to the black after several minutes.	
MIRROR	Select Mirror Status: Select the mirror status with the ① / ① button.	
MENU COLOR		
LANGUAGE	Select Menu Display Language: Select the language with the 🌢 / 🔻 button.	
AUTO OFF	Set AUTO OFF: Set 1~99 minutes with the ① / ① button. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select the STOP (0 min.) with the ① button. When the STOP is selected the system does not enter the standby mode even if no signal is received.	
SYNC ON G	SYNC ON G Valid: Select the TURN ON with the button. SYNC ON G Invalid: Select the TURN OFF with the button. • May not be displayed correctly with some input signals when the SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set the SYNC ON G to invalid, and reconnect the signal.	
WHISPER	Set / Crear WHISPER Mode: Press the ① / ① button. When the WHISPER is selected, the WHISPER mode is active. In the WHISPER mode, acoustic moise level from the unit is reduced, and brightness level on screen is a little lower.	
IR REMOTE	Select Remote Control Sensor: Select the sensors to activate along the menu with the (a) / (v) button. Use this function if the remote does not work stably. The ambient light may affect the remote. VOLUME RANGE RANG	
ENICH 16H 16		

MAINTENANCE

Lamp









HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

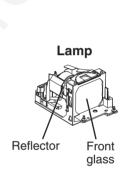
Contact your dealer before replacing the lamp.

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

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

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

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



Lamp 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.

MAINTEMANCE (continued)

ng the Lamp

the projector OFF, remove the power cord from the putlet, and wait at least 45 minutes for the unit to cool.

hat the projector has cooled sufficiently, and gently pside down.

the two screws as shown in the diagram, and remove p cover.

the three screws, and gently remove the lamp while the grips. Touching the inside of the lamp case may uneven coloring.

he new lamp and tighten the three screws firmly.

Eadily push the opposite side of the screwed lamp into

the lamp cover in position and tighten the two firmly.

turn the projector right-side up.

UTION • Ensure that screws are tightened perly. Screws not tightened fully may result y or accidents.

t 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 pane, 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

Cleaning the air Filter

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.

Replacing the Air Filter

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

- 1. Remove the filter cover.
- 2. Remove the old filter.
- 3. Set the new filter and the filter cover.

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

- Replace the air filter if contamination cannot be removed, or if it is damaged. Contact your dealer in such case. For the optional air filter, see the item "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.

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

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

TROUBLESHOOTING

OSD Message

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

Table 9. OSD Messages

Table 9. COD Messages			
Message	Contents		
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. (*1)	The usage time of lamp will be reaching 2000 hr shortly.(*2) It is recommended to replace the lamp soon. Prepare a new lamp as a replacement.		
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER ** hr. (*1)	The usage time of lamp will be reaching 2000 hr shortly. It is recommended to replace the lamp within * * hours.(*2) It might be happened that the lamp is cut off before * * hr by any chance. Power will be switched OFF automatically in * * hours. Replace the lamp as shown in P.17~18 "Lamp". Always reset the lamp timer after replacing the lamp.		
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER 0 hr.	The usage time of lamp is about to reach. Power will be switched OFF in a few minutes.(*2) Switch power OFF immediately and replace the lamp as shown in P.17 ~18 "Lamp". Always reset the lamp timer after replacing the lamp.		
NO INPUT IS DETECTED ON ***	No input signal found. Check signal input connections and signal sources.		
SYNC IS OUT OF RANGE ON ***	The horizontal or vertical frequency of the input signal is not within the specified range. Check the specifications of the equipment and the signal source.		

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

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

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

Table 10. Indicators incessage				
POWER indicator	LAMP indicator	TEMP indicator	Contents	
Lights orange	Turns off	Turns off	The Standby mode has been set.	
Blinks green	Turns off	Turns off	Warming up. Please wait.	
Lights green	Turns off	Turns off	ON. Normal operation possible.	
Blinks orange	Turns off	Turns off	Cooling. Please wait.	
Blinks red	-	-	Cooling. Please wait. The error is found. Take the appropriate measures when the POWER indicator ceases blinking	
Blinks /Lights red	Lights red	Turns off	Lamp is not lit. The interior of the equipment may be too hot. Switch power OFF, wait 20 minutes until the equipment cools, and check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. And switch power ON again. Replace the lamp if the same problem occurs.	
Blinks /Lights red	Blinks red	Turns off	Lamp or lamp cover is not found, or hasn't been fitted in correctly. Switch power OFF, and wait for 45 minutes until the equipment cools. Check fitting of the lamp and lamp cover, and switch power ON again. Contact your dealer if the same problem occurs again.	
Blinks /Lights red	Turns off	Blinks red	The cooling fan is not operating. Switch power OFF, and wait for 20 minutes until the equipment cools. Check for foreign matters in the fan, and switch power ON again. Contact your dealer if the same problem occurs again.	
Blinks /Lights red	Turns off Lights red cools. Check whether the ventilation openings are blunched whether the air filter is dirty, or whether the ambient to		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	
Lights green	Blinks red	Blinks red	The interior of the equipment is too cool. Check whether the ambient temperature is below 0°C. Contact your dealer if the same problem occurs when the ambient temperature is 0~35°C.	

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

TROUBLESHOOTING (continued)

Symptom

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

Table 11. Symptom

Symptom	Possible cause	Remedy	Page
The power is not	The main power switch is not turned on.	Turn on the main power switch.	0.0
turned on.	The power cord is disconnected.	Plug the power cord into an AC power outlet.	8,9
No video or audio.	The input is not correctly set.	Use the projector or remote control transmitter to set.	10
No video di addio.	No signal input.	Connect correctly.	7,8
	The projector is not correctly connected.	Connect correctly.	7,8
Video is present but no audio.	The volume is set to minimum.	Press VOLUME on the remote control or display the menu screen and adjust the volume.	11,15
	Mute is turned on.	Press the MUTE ® button.	11
	The projector is not correctly connected.	Connect correctly.	7,8
Audio is present but no video.	The brightness adjustment knob is rotated fully clockwise.	Select BRIGHT with the MENU button and the press the De 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
	Brightness and contrast are not correctly adjusted.	Adjust the video.	12
Images are dark.	The lamp is nearing the end of its service life.	Replace with a new lamp.	17
	WHISPER mode is set.	Clear WHISPER mode.	15
Video is blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	9,12

SPECIFICATIONS

Table 12. Specifications

Item		_	Specification		
Product na	ıme		Liquid crystal projector		
Liquid	Panel size		2.3 cm (0.9 type)		
crystal	Drive system		TFT active matrix		
panel	Pixels		786,432 pixels (1024 horizontal x 768 vertical)		
Lens			Zoom lens F=1.7 ~ 2.1 f=36.8 ~ 47.8 mm		
Lamp			250 W UHB		
Speaker			1.0W+1.0W (stereo)		
Power sup	ply		AC100 ~ 120V, 4.5A / AC220 ~ 240V, 1.9A		
Power con	• •		410W		
Temperatu	<u> </u>		0 ~ 35°C (Operating)		
Size			360 (W) x 106 (H) x 256.5 (D) mm		
Weight (ma	ass)		4.3 kg		
RGB	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		
signal input	DVI		TMDS, DC: 150~1200 mV / AC: 1.56 Vp-p TTL Level (Positive/Negative)		
прис	AUDIO IN	RGB1 DVI RGB2	200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack		
	VIDEO IN	. 	1.0Vp-p, 75Ω terminator RCA jack		
Video	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		
signal input	COMPONE	Υ	1.0 Vp-p, 75 Ω Terminator (Positive)		
put	COMPONENT: VIDEO		0.7 Vp-p, 75 Ω Terminator (Positive)		
			0.7 Vp-p, 75 Ω Terminator (Positive)		
	AUDIO IN	L R	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		
σαιραί	AUDIO OUT		200mVrms, output impedance 1 kΩ (max. 3.0Vp-p) Stereo mini jack		
Control	CONTROL		D-sub 15-pin shrink plug		
functions	USB		USB jack (B type)		
Optional Parts			Lamp: DT00471 Air Filter: NJ06131 * For others, consult your dealer.		

NOTE • This specifications are subject to change without notice.

WARRANTY AND AFTER-SERVICE

If a problem occurs with the equipment, first refer to the P.20 "TROUBLESHOOTING" section and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

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

Example of computer signal

Resolution H × V	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode
640 × 350	37.9	85.1	VESA	VGA-1	Zoom in
640 × 400	37.9	85.1	VESA	VGA-2	Zoom in
720 × 400	37.9	85.0	VESA	TEXT	Zoom in
640 × 480	31.5	59.9	VESA	VGA (60Hz)	Zoom in
640 × 480	35.0	66.7		Mac13"mode	Zoom in
640 × 480	37.9	72.8	VESA	VGA (72Hz)	Zoom in
640 × 480	37.5	75.0	VESA	VGA (75Hz)	Zoom in
640 × 480	43.3	85.0	VESA	VGA (85Hz)	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	
1024 × 768	48.4	60.0	VESA	XGA (60Hz)	
1024 × 768	56.5	70.1	VESA	XGA (70Hz)	
1024 × 768	60.0	75.0	VESA	XGA (75Hz)	
1024 × 768	68.7	85.0	VESA	XGA (85Hz)	
1152 × 864	67.5	75.0	VESA	SXGA (75Hz)	Zoom out
1280 × 960	60.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	64.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	80.0	75.0	VESA	SXGA (75Hz)	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.
- \bullet The image may not be displayed correctly when the input sync. signal is "Composite Sync." or "Sync. on G".
- The image might be something wrong with computer by computer on the DVI mode. In the case, it is recommended to reduce the resolution and / or reflesh rate.

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.



Signal a	Computer / Horizontal signal timing (µs)					Computer / Vertical signal timimg (lines					
VGA-1 (85Hz) 2.0 3.0 20.3 1.0 VGA-1 (85Hz) 3 60 350 32 VGA-2 (85Hz) 2.0 3.0 20.3 1.0 VGA-2 (85Hz) 3 41 400 1 TEXT 2.0 3.0 20.3 1.0 TEXT 3 42 480 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) 1.6 2.2 17.8 1.6 VGA (75Hz) 3 16 480 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	'				- 						
VGA-2 (85Hz) 2.0 3.0 20.3 1.0 VGA-2 (85Hz) 3 41 400 1 TEXT 2.0 3.0 20.3 1.0 TEXT 3 42 480 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) 1.3 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 (75Hz) 3.2 1.2 2.0 1.0 S											
TEXT 2.0 3.0 20.3 1.0 TEXT 3 42 480 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) 1.0 2.2 10.8 0.5 XGA (85Hz) 3 28 768 1 XGA (85Hz) 1.1 2.7 1.2 2.4 10.7 0.6 1152×864 (75Hz) 3 28 864 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	` ′	-				, ,					
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 (75Hz) 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 (75Hz) 1.6 3.2 16.2 0.3 SVGA (75Hz) 6 23 600 3 SVGA (85Hz) 1.1 2.7 14.2 0.6	` '	2.0	3.0	20.3	1.0	VGA-2 (85Hz)	3	41	400	1	
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 <td>TEXT</td> <td>2.0</td> <td>3.0</td> <td>20.3</td> <td>1.0</td> <td>TEXT</td> <td>3</td> <td>42</td> <td>480</td> <td>1</td>	TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	480	1	
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 1 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	VGA (60Hz)	3.8	1.9	25.4	0.6	VGA (60Hz)	2	33	480	10	
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 <td>Mac 13"mode</td> <td>2.1</td> <td>3.2</td> <td>21.2</td> <td>2.1</td> <td>Mac 13"mode</td> <td>3</td> <td>39</td> <td>480</td> <td>3</td>	Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3	
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 (75Hz) 1.8 1.9 13.7 0.3 <td>VGA (72Hz)</td> <td>1.3</td> <td>3.8</td> <td>20.3</td> <td>1.0</td> <td>VGA (72Hz)</td> <td>3</td> <td>28</td> <td>480</td> <td>9</td>	VGA (72Hz)	1.3	3.8	20.3	1.0	VGA (72Hz)	3	28	480	9	
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 (85Hz) 1.0 2.2 10.8 0.5 <td>VGA (75Hz)</td> <td>2.0</td> <td>3.8</td> <td>20.3</td> <td>0.5</td> <td>VGA (75Hz)</td> <td>3</td> <td>16</td> <td>480</td> <td>1</td>	VGA (75Hz)	2.0	3.8	20.3	0.5	VGA (75Hz)	3	16	480	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	VGA (85Hz)	1.6	2.2	17.8	1.6	VGA (85Hz)	3	25	480	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 32 864 1 1152×864 (75Hz) 1.0 2.9 11.9 0.9 </td <td>SVGA (56Hz)</td> <td>2.0</td> <td>3.6</td> <td>22.2</td> <td>0.7</td> <td>SVGA (56Hz)</td> <td>2</td> <td>22</td> <td>600</td> <td>1</td>	SVGA (56Hz)	2.0	3.6	22.2	0.7	SVGA (56Hz)	2	22	600	1	
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 36 960 1 1280×960 (60Hz) 1.0 2.9 11.9 <t< td=""><td>SVGA (60Hz)</td><td>3.2</td><td>2.2</td><td>20.0</td><td>1.0</td><td>SVGA (60Hz)</td><td>4</td><td>23</td><td>600</td><td>1</td></t<>	SVGA (60Hz)	3.2	2.2	20.0	1.0	SVGA (60Hz)	4	23	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	SVGA (72Hz)	2.4	1.3	16.0	1.1	SVGA (72Hz)	6	23	600	37	
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	SVGA (75Hz)	1.6	3.2	16.2	0.3	SVGA (75Hz)	3	21	600	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	SVGA (85Hz)	1.1	2.7	14.2	0.6	SVGA (85Hz)	3	27	600	1	
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	Mac 16"mode	1.1	3.9	14.5	0.6	Mac 16"mode	3	39	624	1	
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	XGA (60Hz)	2.1	2.5	15.8	0.4	XGA (60Hz)	6	29	768	3	
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	XGA (70Hz)	1.8	1.9	13.7	0.3	XGA (70Hz)	6	29	768	3	
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	XGA (75Hz)	1.2	2.2	13.0	0.2	XGA (75Hz)	3	28	768	1	
1280×960 (60Hz) 1.0 2.9 11.9 0.9 1280×960 (60Hz) 3 36 960 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	
1280×1024 (60Hz) 1.0 2.3 11.9 0.4 1280×1024 (60Hz) 3 38 1024 1	1280×960 (60Hz)	1.0	2.9	11.9	0.9	1280×960 (60Hz)	3	36	960	1	
	1280×1024 (60Hz)	1.0	2.3	11.9	0.4	1280×1024 (60Hz)	3	38	1024	1	
1280×1024 (75Hz) 1.1 1.8 9.5 0.1 1280×1024 (75Hz) 3 38 1024 1	1280×1024 (75Hz)	1.1	1.8	9.5	0.1	1280×1024 (75Hz)	3	38	1024	1	

Connection to the Mouse Control

1. PS/2, ADB or Serial Mouse

- (1) Turn off the projector and computer, and connect the two units with the appropriate cable. For PS/2 mouse control (for IBM and compatible), use the enclosed mouse cable. For others, consult your dealer.
- (2) Disconnect the USB cable from the projector if it is connected. Then turn on the projector.
- (3) Turn on the computer.
- (4) Start the mouse function. If the mouse has not been started, reboot the computer (soft reboot or reboot buttons). Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

2. USB Mouse

- (1) Connect the projector and computer with a suitable commercially available USB cable. Consult your dealer to get the cable, if you need.
- (2) Start the mouse function. Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

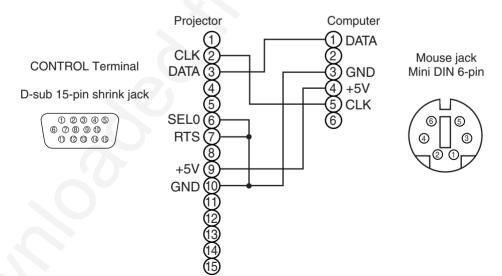
NOTE • Before connecting, read the instruction manuals of the devices to be connected.

• In the case of notebook type computers with an internal pointing device, the mouse control function will not work unless the internal pointing device is disabled. In such case, disable the internal pointing device and change the BIOS setting to select an external mouse before the operations described in (1) to (4) above.

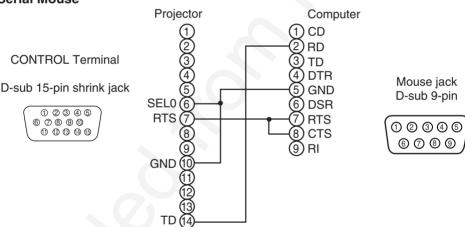
Also, some computers may not have a utility program to operate a mouse.

Refer to the computer hardware manual for detail.

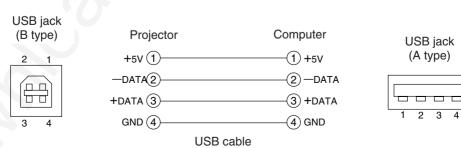
PS/2 Mouse



ADB Mouse Projector Computer 1) ADB 2)(POWER ON) **CONTROL** Terminal DATA (3 (3) +5V**GND** Mouse jack D-sub 15-pin shrink jack Mini DIN 4-pin 0 2 3 4 5 RTS (7 67890 000000 4 ③ +5V (9 GND (10 **Serial Mouse**

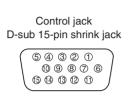


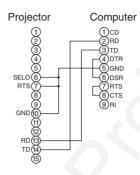
USB Mouse



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			
Action		Ту	ре	Setting code			
low	low high		high	low	high		

Action (byte_0 - 1)

Action	Classification	Content
1	SET	Change setting to desired value.
2	GET	Read projector internal setup value.
4	INCREMENT	Increment setup value by 1.
5	DECREMENT	Decrement setup value by 1.
6	EXECUTE	Run a command.

Requesting projector status (Get command)

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

Changing the projector settings (Set command)

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

Using the projector default settings (Reset Command)

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

Increasing the projector setting value (Increment command)

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

Decreasing the projector setting value (Decrement command)

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

When a command sent by the projector cannot be understood by the computer

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

When data sent by the projector cannot be practice

When the command sent by the projector cannot be practiced, the the error code '1cH' +'xxxxH' is returned.

When the data length is greater than indicated by the data length code, the projector will ignore the excess data code.

Conversely, when the data length is shorter than indicated by the data length code, an error code will be returned to the projector.

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.

- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- · Commands are not accepted during warm-up.

Namaa		noration type	Header <u> </u>			-	Command data		
Names		peration type		ieader		CRC	Action	Type	Setting code
		Red	BE EF	03	06 00	3B D3	01 00	00 30	00 00
		Orange	BE EF	03	06 00	AB D2	01 00	00 30	01 00
		Green	BE EF	03	06 00	5B D2	01 00	00 30	02 00
		Blue	BE EF	03	06 00	CB D3	01 00	00 30	03 00
Diami. Oalan	Set	Purple	BE EF	03	06 00	FB D1	01 00	00 30	04 00
Blank Color		White	BE EF	03	06 00	6B D0	01 00	00 30	05 00
		Black	BE EF	03	06 00	9B D0	01 00	00 30	06 00
		MyScreen	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		ORIGNAL	BE EF	03	06 00	FB E2	01 00	00 30	40 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
	Cot	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
	Cot	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
	Set	Red	BE EF	03	06 00	7F D3	01 00	03 30	00 00
		Orange	BE EF	03	06 00	EF D2	01 00	03 30	01 00
		Green	BE EF	03	06 00	1F D2	01 00	03 30	02 00
Menu Color		Blue	BE EF	03	06 00	8F D3	01 00	03 30	03 00
Werld Color		Purple	BE EF	03	06 00	BF D1	01 00	03 30	04 00
		Transparent	BE EF	03	06 00	2F D0	01 00	03 30	05 00
		Gray	BE EF	03	06 00	DF D0	01 00	03 30	06 00
		Get	BE EF	03	06 00	4C D3	02 00	03 30	00 00
		ORIGNAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
Startup	Set	OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
Startup		MyScreen	BE EF	03	06 00	СВ СВ	01 00	04 30	20 00
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00
		English	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		Français	BE EF	03	06 00	67 D2	01 00	05 30	01 00
Language		Deutsch	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		Español	BE EF	03	06 00	07 D3	01 00	05 30	03 00
	Set	Italiano	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		Norsk	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		Nederlands	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		Português	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		Japanese	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00

HNICAL

TECHNICAL (continued)

					<u> </u>	Command data			
Names	Оре	eration type	'	Header	1	CRC	Action	Type	Setting code
		Get	BE EF	03	06 00	7C D2	02 00	07 30	00 00
Magnify	Ir	crement	BE EF	03	06 00	1A D2	04 00	07 30	00 00
	D	ecrement	BE EF	03	06 00	CB D3	05 00	07 30	00 00
		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00
Auto off	Increment		BE EF	03	06 00	6E 86	04 00	10 31	00 00
	D	ecrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00
Brightness Reset	-	Execute	BE EF	03	06 00	58 D3	06 00	00 70	00 00
Contrast Reset	-	Execute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00
V.Position Reset	-	Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00
H.Position Reset	-	Execute	BE EF	03	06 00	IC D3	06 00	03 70	00 00
H.Size Reset	-	Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00
Color Balance R Reset	ı	Execute	BE EF	03	06 00	94 D3	06 00	05 70	00 00
Color Balance B Reset		Execute	BE EF	03	06 00	D0 D3	06 00	06 70	00 00
Sharpness Reset		Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00
Color Reset	-	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00
Tint Reset	-	Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00
Keystone_V Reset	ı	Execute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00
Keystone_H Reset	-	Execute	BE EF	03	06 00	98 D8	06 00	20 70	00 00
Auto	-	Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00
	Set	off	BE EF	03	06 00	FB D8	01 00	20 30	00 00
Blank on/off		on	BE EF	03	06 00	6B D9	01 00	20 30	01 00
		Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00
			BE EF	03	06 00	D9 D8	02 00	20 60	00 00
			(Example of Return) 00 00 01 00 02 00				03 00		
Error Status		Get	(Normal)		r-error)	(Fan-err		amp-error)
			04 00	,	05 00	,	06 00	•	
			(Temp-erre	or)	(Air flow-	error)	(Lamp-	Time-ove	<u>* </u>
_	Set	OFF	BE EF	03	06 00	2A D3	01 00	00 60	00 00
Power		ON Get	BE EF	03	06 00 06 00	BA D2 19 D3	01 00 02 00	00 60	01 00
		RGB1	BE EF	03	06 00	FE D2	01 00	00 00	00 00
		RGB2	BE EF	03	06 00	3E D0	01 00	00 20	04 00
Input Source	Set	DVI	BE EF	03	06 00	0E D2	01 00	00 20	03 00
		Video	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		SVideo	BE EF	03	06 00	9E D3	01 00	00 20	02 00
		Component	BE EF	03	06 00	AE D1	01 00	00 20	05 00
			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	Ir	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
	Beolement								

Namas	Names Operation type			leader				Comma	nd data
ivames		Deration type	·	reauei		CRC	Action	Туре	Setting code
	Set	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
		Get	BE EF	03	06 00	75 D3	02 00	02 20	00 00
		Get	BE EF	03	06 00	89 D2	02 00	03 20	00 00
Brightness		Increment	BE EF	03	06 00	EF D2	04 00	03 20	00 00
	ı	Decrement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
		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
	I	Decrement	BE EF	03	06 00	4A D2	05 00	04 20	00 00
0.1		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
Daid.100 11	- 1	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		Increment	BE EF	03	06 00	23 D2	04 00	06 20	00 00
Balance B	-	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		Increment	BE EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
	Get		BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
Keystone_H	Increment		BE EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement		BE EF	03	06 00	5E D1	05 00	0B 20	00 00
		4:3, Full	BE EF	03	06 00	9E D0	01 00	08 20	00 00
Aspect	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
Display Position at	Set	Bottom	BE EF	03	06 00	F2 D0	01 00	09 20	01 00
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	BE EF	03	06 00	B5 82	02 00	02 21	00 00
H.Size		Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00
		Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00
		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

			Commi	2110 0			0ad data				
Names	1	Operation type		Header				Command data			
1 100111-2						CRC	Action	Туре	Setting code		
		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		
	$oxed{igspace}$	Decrement	BE EF	03	06 00	46 73	05 00	01 22	00 00		
ı	<u></u>	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00		
Color		Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00		
	↓	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00		
ı		Get	BE EF	03	06 00	49 73	02 00	03 22	00 00		
Tint		Increment	BE EF	03	06 00	2F 73	04 00	03 22	00 00		
		Decrement	BE EF	03	06 00	FE 72	05 00	03 22	00 00		
		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 Format		NTSC 4.43	BE EF	03	06 00	5E 72	01 00	00 22	02 00		
i İ		M-PAL	BE EF	03	06 00	FE 74	01 00	00 22	08 00		
i İ		N-PAL	BE EF	03	06 00	0E 71	01 00	00 22	07 00		
ı		Get	BE EF	03	06 00	0D 73	02 00	00 22	00 00		
	Set	1080i	BE EF	03	06 00	F2 73	01 00	05 22	00 00		
HDTV	36.	1035i	BE EF	03	06 00	62 72	01 00	05 22	01 00		
l		Get	BE EF	03	06 00	C1 73	02 00	05 22	00 00		
<u>—</u> —		off	BE EF	03	06 00	FE 22	01 00	00 23	00 00		
PinP Size	Set	Large	BE EF	03	06 00	6E 23	01 00	00 23	01 00		
Fin O.20		Small	BE EF	03	06 00	9E 23	01 00	00 23	02 00		
·		Get	BE EF	03	06 00	CD 22	02 00	00 23	00 00		
		Upper left	BE EF	03	06 00	02 23	01 00	01 23	00 00		
ĺ	224	Upper right	BE EF	03	06 00	92 22	01 00	01 23	01 00		
PinP Position	Set	bottom left	BE EF	03	06 00	62 22	01 00	01 23	03 00		
ĺ		bottom right	BE EF	03	06 00	F2 23	01 00	01 23	02 00		
l '		Get	BE EF	03	06 00	31 23	02 00	01 23	00 00		
	7.,	RGB	BE EF	03	06 00	BA 22	01 00	03 23	00 00		
PinP Audio ch	Set -	Video	BE EF	03	06 00	2A 23	01 00	03 23	01 00		
İ	—	Get	BE EF	03	06 00	89 22	02 00	03 23	00 00		
		Video	BE EF	03	06 00	D6 22	01 00	02 23	01 00		
PinP Input	Set -	S-Video	BE EF	03	06 00	26 22	01 00	02 23	02 00		
· ·		Get	BE EF	03	06 00	75 23	02 00	02 23	00 00		
								$\overline{}$			

Command data chart

Names	Operation type			leader			Command data			
ivames				reauei		CRC	Action	Туре	Setting code	
	Set	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	
	Set	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	
		NORMAL	BE EF	03	06 00	C7 F0	01 00	A1 30	00 00	
GAMMA	Set	CINEMA	BE EF	03	06 00	57 F1	01 00	A1 30	01 00	
GAIVIIVIA		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	
	Set	off	BE EF	03	06 00	FF 32	01 00	00 26	00 00	
IR Remote Front	5	on	BE EF	03	06 00	6F 33	01 00	00 26	01 00	
		Get	BE EF	03	06 00	CC 32	02 00	00 26	00 00	
	Set	off	BE EF	03	06 00	03 33	01 00	01 26	00 00	
IR Remote Rear		on	BE EF	03	06 00	93 32	01 00	01 26	01 00	
	Get		BE EF	03	06 00	30 33	02 00	01 26	00 00	
	Set	off	BE EF	03	06 00	47 33	01 00	02 26	00 00	
IR Remote Top	001	on	BE EF	03	06 00	D7 32	01 00	02 26	01 00	
		Get	BE EF	03	06 00	74 33	02 00	02 26	00 00	

NOTE • The max. 2 IR remote out of 3 (front, rear and top) can be activated.

REGULATORY NOTICES

FCC Statement Warning

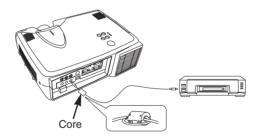
WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can 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

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

Pour les utilisateurs au Canada

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



LEGAL INFORMATION

FIVE-YEAR LIMITED WARRANTY

This Dukane LCD projector is warranted to the original purchaser for a period of five (5) years from the original purchase date - in normal use and service - against defects in material and workmanship. DUKANE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

During the warranty period, Dukane Corporation will repair or replace (at the manufacturer's option) any such defective parts (except for the lamp, which is subject to whatever warranties the manufacturer may provide) without charge to the purchaser for parts or labor when the product is returned, prepaid and insured, with proof-of-purchase date. This remedy is void if the product has been damaged by accident, unreasonable use, neglect, improper service or other causes not arising out of defects in material or workmanship.

Dukane Corporation disclaims all liability for incidental or consequential damage of any kind, including all damages arising out of any interruptions in operation of the product and all damages to software.

No person, firm, or representative is authorized to assume any obligation or to make any warranty on behalf of the Dukane Corporation other than as stated above.

THIS LIMITED WARRANTY IS VALID FOR U.S.A AND CANADA. FOR OTHER LOCATIONS, LOCAL WARRANTIES APPLY.

LAMP REPLACEMENT SERVICE & REPAIR POLICY & PROCEDURE

For service and parts, contact the Dukane AV Service Department at 1 (800) 676-2487 within the USA or 1 (630) 584-2300 worldwide. If you would like to send a facsimile (FAX), dial 1 (630) 584-5156 worldwide.

When requesting warranty service, please have the sales receipt available along with the model name and serial number.

If it becomes necessary to return the projector, use the original packing material and box (if retained) or pack securely. Dukane Corporation will not be liable for any pick-up or delivery charges or any expenses incurred for service calls or service supplied by anyone other than the Dukane AV Service Department.

Audio Visual Products

Dukane Corporation Audio Visual Products Division 2900 Dukane Drive St. Charles, IL 60174-3395 E-mail: avsales@dukane.com Phone: (630) 584-2300 Orders: (800) 676-2485 Information: (800) 676-2486 Fax: (630) 584-5156

Parts & Service: (800) 676-2487 Fax: (630) 584-0984



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