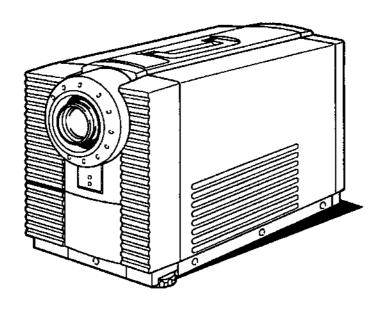


Super Brightness LCD Data-Grade Projector

MODEL PLC-700MB PLC-700MP



OWNER'S INSTRUCTION MANUAL

TO THE OWNER

As the owner of a new Data LCD Colour Projector, you are probably eager to try out your new projector. Before you do, we suggest that you spend a little time reading this manual to familiarize yourself with the operating procedures, so that you will receive maximum enjoyment from the many features included on your new projector.

This owner's manual will acquaint you with your projector's features. Reading it will help us too. Through the years, we have found that many service requests were not caused by problems with our projectors. They were caused by problems that could have been prevented, if the owner had followed the instructions in the manual.

You can often correct operating problems yourself. If your projector fails to work properly, locate the operating problem in the Helpful Hints Chart on page 25 and try the solutions marked for each problem.

SAFETY PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Intense light source. Do not stare directly into the projection lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

If the projector will not be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

IMPORTANT: For your protection in the event of theft or loss of this projector, please record the Model Number and Serial Number located on the rear of unit and retain this information. Refer to these numbers whenever you call upon your authorized dealer regarding this product. Do not discard shipping carton and packing materials. These items may be needed for storage or future servicing.

IMPORTANT: (UK MODEL ONLY)

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus . If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed. The end of the flexible cord should be suitably prepared and the correct plug fitted. (See Over)

WARNING: A PLUG WITH BARED FLEXIBLE CORDS IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow-------Earth
Blue ------Neutral
Brown-----Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \pm or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS APPARATUS MUST BE EARTHED.

IMPORTANT SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool or the like.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other material, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord will be abused by persons walking on it.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Follow all warnings and instructions marked on the projectors.

For added protection for the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and powerline surges.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.

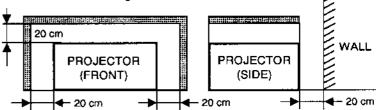


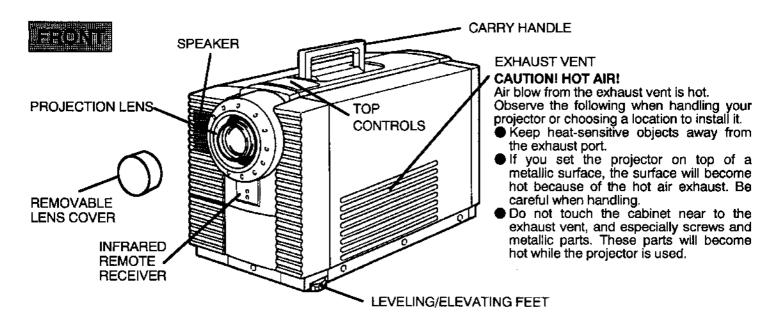
TABLE OF CONTENTS

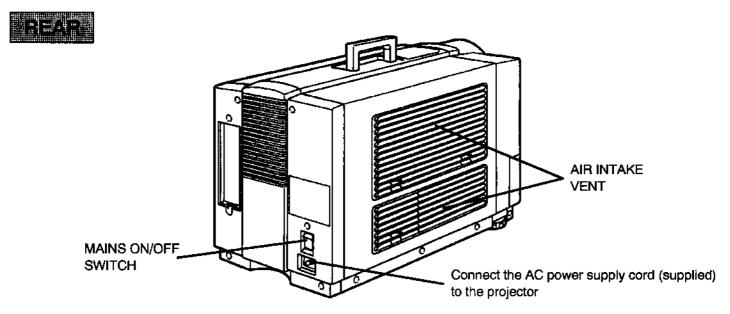
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POWER REQUIREMENTS

Your projector uses nominal input voltages of 100-120 VAC or 200-240 VAC. The projector automatically selects the correct input voltage. The projector is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure what type of power is supplied to your building.

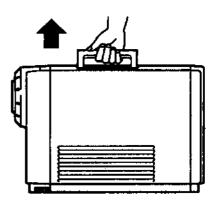
DESCRIPTION





Use the carry handle when moving projector.

Replace the lens cover when moving the projector to prevent damage to the lens.



CONNECTING THE PROJECTOR

Your projector is equipped with various audio/video inputs and outputs including Computer DB25-pin terminals, Computer Separate input (BNC) and S-VHS video input.

This projector is compatible with many different types of personal computers: using the adapter Y cable provided, it can be connected directly to any VGA and MAC II or compatible computers equipped with APPLE II e, FM-TOWNS (L), CGA, HGC, EGA, MAC SE, FM-TOWNS (640 \times 400), FM-TOWNS (640 \times 480), MAC LC (12" MONITOR), PC-9801 (640 \times 400), PC-9821 (640 \times 400), PC-9821 (640 \times 480), AT&T, AX-286/386, GENOA 6000, and VESA VS901001. (adapter cable not provided).

CONNECTING TO THE COMPUTER INPUT/OUTPUT DB25-PIN TERMINAL

Personal computers can be connected to the DB25-pin terminal on the projector.

Connect the computer to this terminal using the adapter cable (two type of adapter Y cables are provided).

WARNING: For projectors, adapter Y cable provided is designed to reduce RFI (Radio Frequency Interference) emissions. This cable must be used and must not be replaced by any other cable.

Specification of DB25-pin terminal

Pin No.	Signal		Pin No.	Signal
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Red input (Analog) Green input (Analog) Blue input (Analog) Red output (Analog) Green output (Analog) Blue output (Analog) ID 0 ID 1 ID 2 Earth Earth V. Sync H. Sync	0.7 Vp-p/75 ohm 0.7 Vp-p/75 ohm 0.7 Vp-p/75 ohm 0.7 Vp-p/75 ohm 0.7 Vp-p/75 ohm 0.7 Vp-p/75 ohm	14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	Earth Earth Earth Red input (TTL) Green input (TTL) Blue input (TTL) r input (TTL), CGA Intensity b input (TTL) NC Earth Earth
	ii. Ojiio			



CONNECTING TO THE COMPUTER INPUT JACKS (BNC)

Personal computers can be connected to the computer input (Red, Green, Blue, Horiz. Sync. and Vert. Sync.) on the projector.

Connect the computer to these jacks.

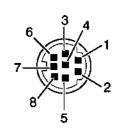
CONNECTING TO THE COMPUTER AUDIO INPUT JACKS

- Connect audio outputs from your computer to these jacks.
- If the audio input of the audio equipment is stereo, be sure to connect the right and left channels to the respective right and left jacks.
- If the audio input of the audio equipment is monaural, connect it to the left jack.

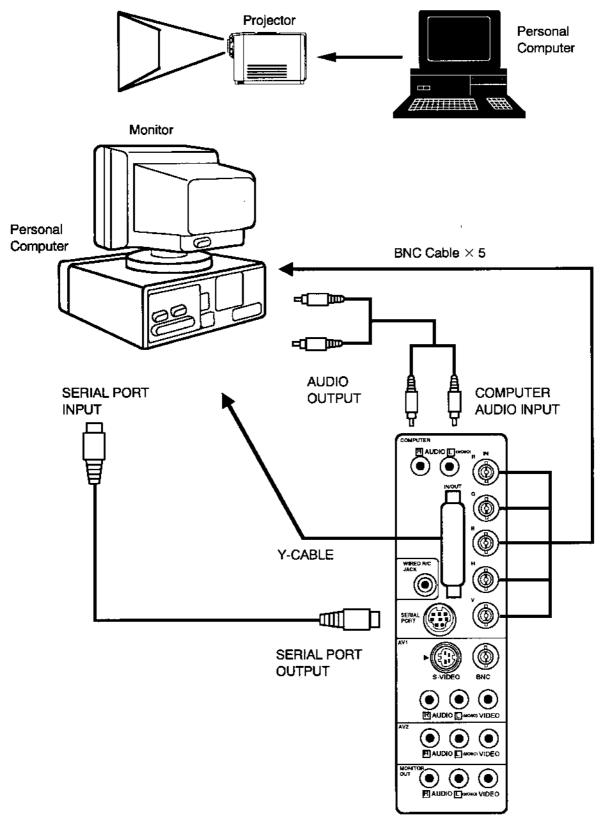
CONNECTING TO THE DIN8 (SERIAL PORT) CONNECTOR

 If you control the projector by computer, you must connect a cable from your computer to this connector.





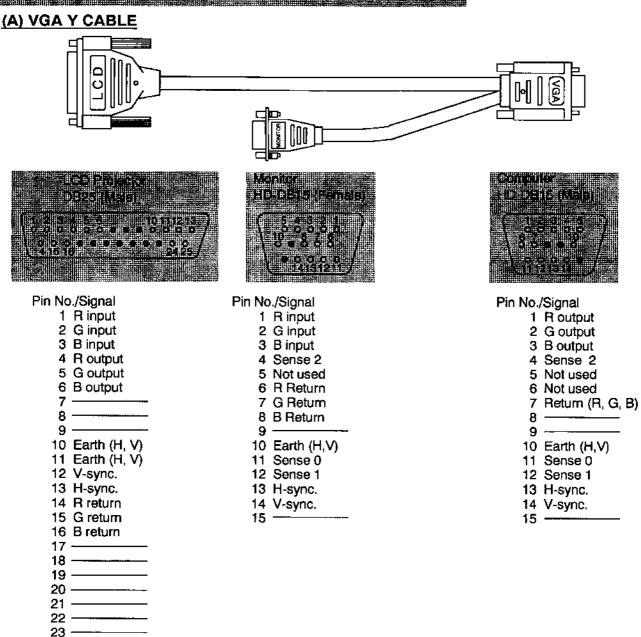
1	RxD
2	ADB
3	MUX232
4	GND
5	MUXTTL
6	TxD
7	
8	



NOTE: The hook up should be done as per the above illustration. After hook up, turn on the personal computer and monitor and the POWER(LAMP) ON/OFF button to light the projection lamp. Otherwise, the monitor's image does not appear.

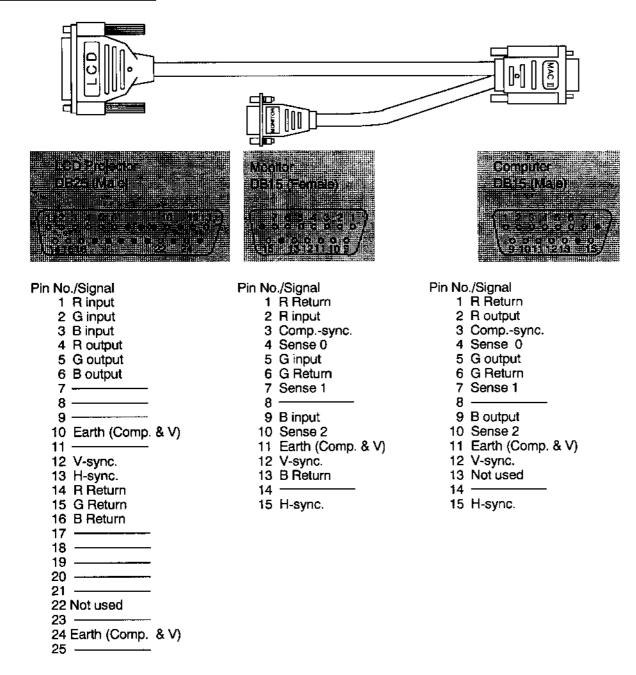
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24 Earth 25 Earth



NOTE: Some computers scan the video output to see if a proper monitor is connected. In certain instances they will not provide an image to the projector if the monitor is not connected. In these circumstances, you will have to connect a monitor or a "monitor simulation" terminator plug into the monitor connector on the "Y" cable (the HD-DB15 shown above). The computer will then provide a proper image to the projector. A simulation terminator for the VGA monitor connector is included with the projector.

(B) MAC II Y CABLE



NOTE: Some Macintosh computers scan the video output to see if a proper monitor is connected. In certain instances they will not provide an image to the projector if the monitor is not connected. In these circumstances, you will have to connect a monitor or a "monitor simulation" terminator plug into the monitor connector on the "Y" cable (the DB15 shown above). The computer will then provide a proper image to the projector. A simulation terminator for the MAC monitor connector is included with the projector.



CONNECTING TO THE AV1 INPUT JACKS

Connect to the video and audio outputs of a VCR, video disc player, video camera, satellite TV tuner or other AV equipment.

- Connect video/audio outputs from external sources to these input jacks.
- If the audio signal from the AV equipment is stereo, be sure to connect the right and left channels to the respective right and left audio input jacks.
- If the external audio signal is monaural, connect it to the left jack.
- Do not connect the video sources to the AV1 (PHONO TYPE) together with the BNC TYPE jack. Use one video input only for AV1.

S-VHS FORMAT VCR CONNECTION

The AV1 input includes an extra video input jack marked S-VIDEO to allow connection to an S-VHS format VCR that has separate Y/C video signals. The S-VIDEO jack has priority over the VIDEO (PHONO TYPE or BNC TYPE) jack.

CONNECTING TO THE AV2 INPUT JACKS

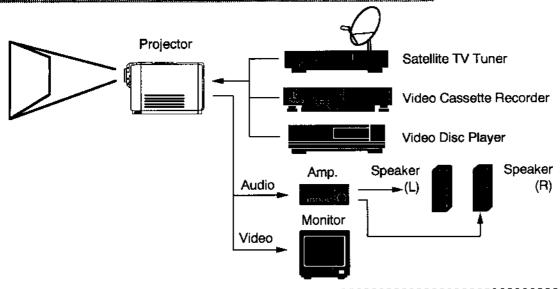
Connect to the video and audio outputs of a VCR, video disc player, video camera, satellite TV tuner or other AV equipment.

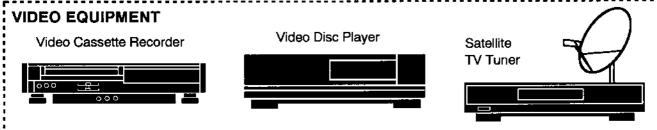
- Connect video/audio outputs from external sources to these input jacks.
- If the audio signal from the AV equipment is stereo, be sure to connect the right and left channels to the respective right and left audio input jacks.
- If the external audio signal is monaural, connect it to the left jack.

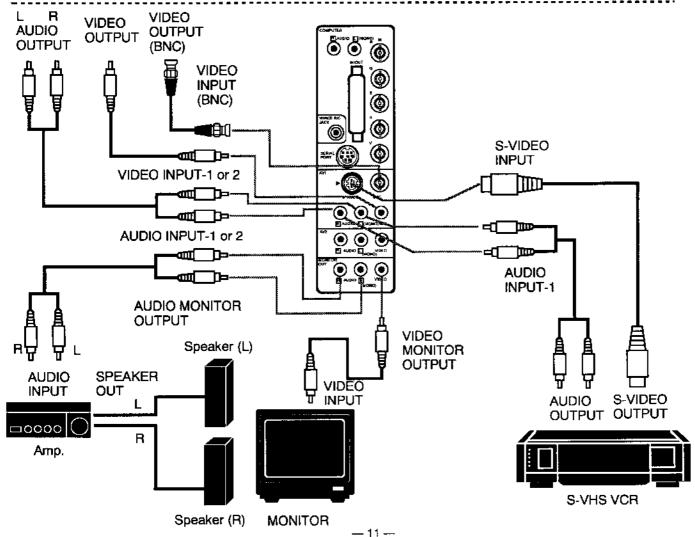
CONNECTING TO THE MONITOR OUTPUT JACKS

These jacks will contain the audio/video information of the selected program source being viewed on the screen. If you have selected program source AV1 the audio signals connected to the AV1 jacks will be available at the monitor output jacks.

- Connect video/audio inputs from AV equipment to these output jacks.
- If the audio input of the audio equipment is stereo, be sure to connect the right and left channels to the respective right and left jacks.
- If the audio input of the audio equipment is monaural, connect it to the left jack.
- Whenever the S-VIDEO signal source is viewed on the screen, the video signal available at the MONITOR OUTPUT
 jack will be in black and white (monochrome).

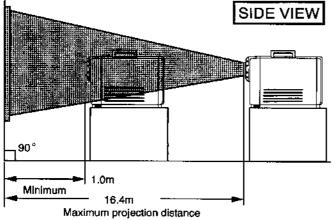




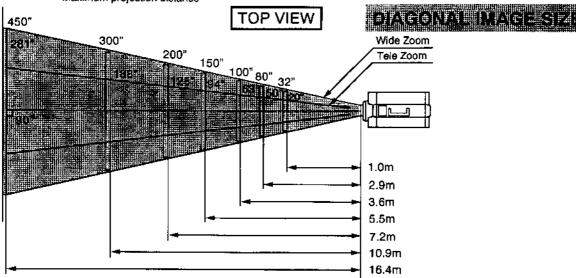


SETTING-UP THE PROJECTOR

- This projector is basically designed to project on a flat projection surface.
- This projector can be focused from 1.0m ~ 16.4m.
- Use the illustration below as an example when positioning the projector to the screen.



The projector should ideally be placed in a room with very limited light. Picture quality will be directly affected by lighting conditions.



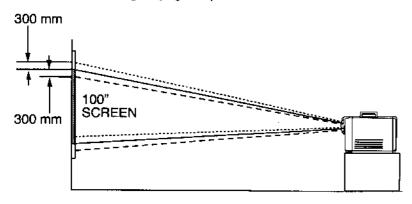
HEVENNE HEVATING ADJUSTINE TIS

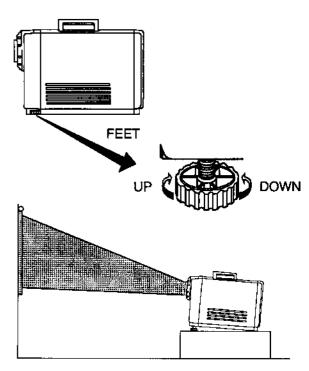
Picture adjustments can be made with the two leveling/elevating feet.

Adjustments of 5 $^{\circ}$ up are possible by rotating the feet on the bottom of the projector.

MOVE THE PROJECTED IMAGE POSITION

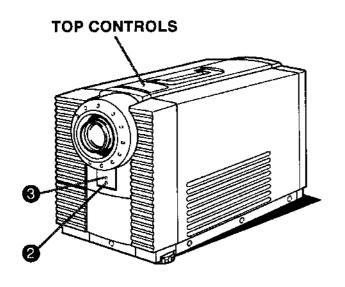
Adjust the projected image position (maximum 300 mm downward or upward on the 100" screen) by using lens shift function (see other function setting on page 20.)

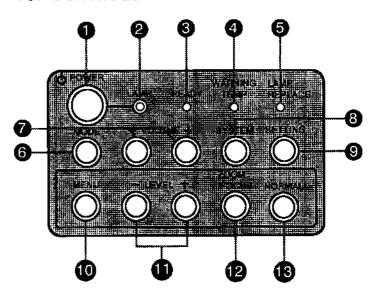




OPERATION OF CONTROLS

TOP CONTROLS





- POWER (LAMP) ON/OFF BUTTON Used to turn projection lamp on or off.
- 2 POWER INDICATORS

Lights dim when the projector is on.

Lights bright when the projector is stand-by position.

- READY INDICATORS
 - Lights green when projector lamp is ready to be turned on.
- 4 TEMPERATURE WARNING INDICATOR
 - Flashes red when internal projector temperature is too high.
- 6 LAMP REPLACEMENT INDICATOR
 - Lights orange when projection lamp is nearing end of service life.
- 6 MODE BUTTON
 - Used to select video source. (Computer Input, Video Input-1 or Video Input-2)
- 7 VOLUME BUTTONS
 - Used to adjust volume
- 8 SYSTEM BUTTON
 - Computer Mode
 - Used to select computer system.
 - AV Mode
 - Used to select colour system.
- 9 SETTING BUTTON

Used to select on-screen adjustment displays for lens shift, display, blue background and reverse R/L.

- Press repeatedly to cycle.
- **10** MENU BUTTON
 - Computer Mode

Used to select on-screen adjustment displays for brightness, contrast, horizontal position, vertical position, fine sync and memory. Press repeatedly to cycle.

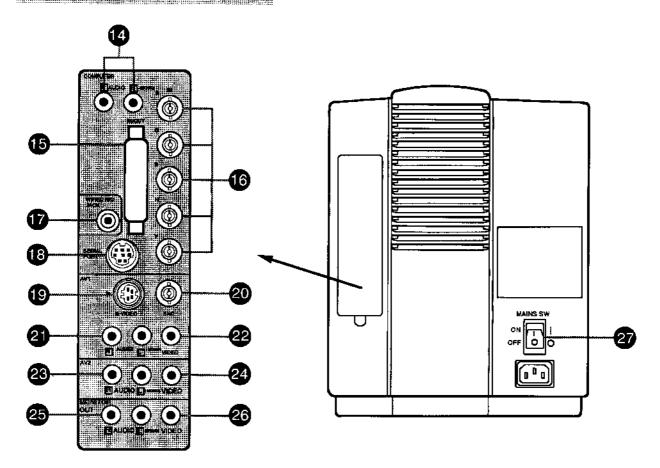
- AV Mode
 - Used to select on-screen adjustment displays for colour, tint, brightness, contrast and sharpness. Press repeatedly to cycle.
- **1** LEVEL CONTROL BUTTONS
 - Computer Mode

Used to adjust zoom, focus, brightness, contrast, horizontal position, vertical position, fine sync, memory, lens shift, display, blue background and reverse R/L by pressing + or - button.

- AV Mode
 - Used to adjust zoom, focus, colour, tint, brightness, contrast, sharpness, lens shift, display, blue background and reverse R/L by pressing + or button.
- 12 ZOOM/FOCUS BUTTON
 - Used to select power zoom lens or focus system.
- **13** NORMAL BUTTON

Used to reset to normal picture adjustment preset by factory.

BACK OF THE PROJECTOR



- 14 COMPUTER AUDIO INPUT JACKS
- Used to connect a computer audio input to the projector.
- 15 COMPUTER INPUT/OUTPUT TERMINAL
 - Used to connect a computer to the projector.
- 16 COMPUTER INPUT JACKS (BNC) Red, Green, Blue, Horiz, Sync. and Vert. Sync.
- Used to connect a computer to the projector.
- 17 WIRED REMOTE JACK
- When using the wired remote control, connect the remote cable to this jack.
- 18 SERIAL PORT CONNECTOR
- Used to connect a computer to the projector.
- 19 S-VIDEO INPUT JACK
- Used to connect a S-VHS video source to the projector.
- 20 VIDEO INPUT-1 (BNC) JACK
- Used to connect a video source to the projector.
- 21 AUDIO INPUT-1 JACKS
- Used to connect an audio input to the projector.
- 22 VIDEO INPUT-1 JACK
- Used to connect a video source to the projector.
- 23 AUDIO INPUT-2 JACKS
- Used to connect an audio input to the projector.
- 24 VIDEO INPUT-2 JACK
- Used to connect a video source to the projector. 25 AUDIO MONITOR OUTPUT JACKS
- Committee available and a set a set
- Permits audio connection to a monitor.
- 26 VIDEO MONITOR OUTPUT JACK
- Permits video connection to a monitor.
- **27** MAINS ON/OFF SWITCH
 - Used to turn the projector on.

REMOTE CONTROL OPERATION

INFRARED/WIRED

REMOTE CONTROL

MODE BUTTON
 Used to select video source. (Computer Input, Video Input-1 or Video Input-2)

POWER (LAMP) ON/OFF BUTTON Used to turn projection lamp on or off.

3 ZOOM BUTTONS
Used to operate power zoom lens.

FOCUS BUTTONS Used to operate power focus system.

5 SOUND MUTE BUTTON Used to mute sound.

6 VOLUME BUTTONS
Used to adjust volume.

7 TEXT BUTTON (Computer mode only) Used to select VGA TEXT (VGA 720 \times 400) mode or VGA GRAPHIC (VGA 640 \times 400) mode.

 2

4

6.

8

(14)

8 LEVEL CONTROL BUTTONS

Computer Mode
 Used to adjust brightness, contrast, horizontal position, vertical position, fine sync, memory, lens shift, display, blue background and reverse R/L by pressing + or - button.

AV Mode
 Used to adjust colour, tint, brightness, contrast, sharpness, lens shift, display, blue background and reverse R/L by pressing + or - button.

SETTING BUTTON Used to select on-screen adjustment displays for lens shift, display, blue background and reverse R/L.

NORMAL BUTTON
Used to reset to normal picture adjustment preset by factory.

MENU BUTTON

Computer Mode
Used to select on-screen adjustment displays for brightness, contrast, horizontal position, vertical position, fine sync and memory. Press repeatedly to cycle.

AV Mode
 Used to select on-screen adjustment displays for colour, tint, brightness, contrast and sharpness. Press repeatedly to cycle.

SYSTEM SELECT BUTTON

Computer Mode

Used to select computer system.

 AV Mode Used to select colour system.

ALTER BUTTON
Used to select previous video mode.

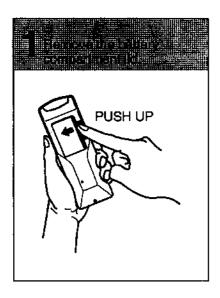
FREEZE BUTTON
Use this button to hold a still picture on-screen.

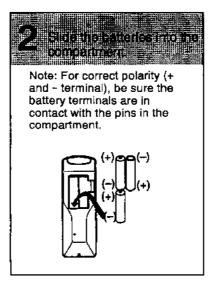
button during the lighting to light for another 5 seconds.

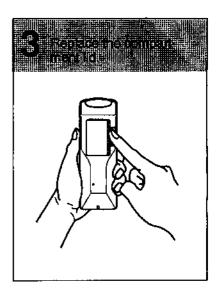
LIGHT UP BUTTON

Press to light the back light for function buttons on the remote control unit for 5 seconds. Press any other function

WIRED REMOTE JACK
When using the wired remote control, connect the remote cable to this jack.

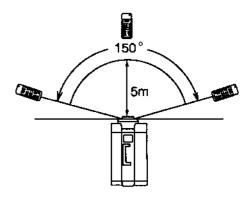






The remote control unit can be used as wireless or wired remote control.

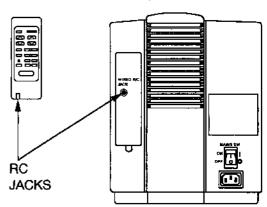
Point the remote control toward the front of the projector (Receiver window) whenever pressing the buttons. Maximum operating range for the remote control is about 5m and 150 $^\circ$ from the front of the projector.



Connect a remote control cable to RC jacks located on the remote control unit and the back of the projector.

To insure safe operation, please observe the following precautions:

- * Use (3) AA, UM3, or R06 type batteries.
- * Change three batteries at the same time.
- * Do not use a new battery with a used battery.
- * Avoid contact with water.
- * Do not drop the remote control unit.



USING THE PROJECTOR

rroji kultivi bikindalesi elafoji kogojaj

Connect the projector to a video source (Computer, VCR, Video Camera, Video Disc Player, etc.) using the appropriate terminals on the rear of the projector (See page 6-11).

Connect the projector's AC power cord into a wall outlet and turn the MAINS ON/OFF switch (located on the back of the projector) to ON position. The POWER indicator will light RED and the READY indicator will light GREEN.

Press the POWER (LAMP) ON/OFF button on the projector or on the remote control unit to ON. The POWER indicator will light dim and the cooling fan will operate. The wait display (A MOMENT!/UN MOMENTO! and numeral 30) appears on the screen and the count-down starts (30-29-28-...1). The signal from the video source appears after 30 seconds.



CAUTION:

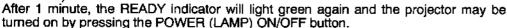
- ◆THIS PROJECTOR USES A METAL-HALIDE ARC LAMP. IF YOU TURN ON THE LAMP, DO NOT TURN IT OFF FOR AT LEAST 5 MINUTES SO THAT ITS LIFE WILL NOT GET SHORTER.
- DO NOT UNPLUG THE PROJECTOR OR TURN THE MAINS ON/OFF SWITCH (LOCATED ON THE BACK OF THE PROJECTOR) TO OFF UNTIL THE COOLING FAN HAS STOPPED OPERATING.
- NOTE 1: After you turn off the projector using the POWER (LAMP) ON/OFF button on the projector (or on the remote control unit) you must wait one minute before you can turn the projector on again.
- **NOTE 2:** TEMPERATURE WARNING INDICATOR flashes red, the projector will automatically turn off. Wait at least 5 minutes before turning the projector on.

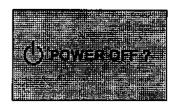
If the TEMPERATURE WARNING INDICATOR continues to flash, follow the procedures below:

- (1). Press POWER (LAMP) ON/OFF button to OFF.
- (2). Check the air filter for dust accumulation.
- (3). Remove dust with vacuum cleaner (See air filter care and cleaning on page 23.)
- (4). Press POWER (LAMP) ON/OFF button to ON.

If the TEMPERATURE WARNING INDICATOR still continues to flash, call your authorized distributor or dealer for service.

Press the POWER (LAMP) ON/OFF button on the projector or on the remote control unit. The "O POWER OFF?" appears on the screen. Press again the POWER (LAMP) ON/OFF button to OFF the projector. The POWER indicator will light bright and READY indicator will turn off. The cooling fan will operate for 1 minute after the projector is turned off. (During this "cooling down" period, the projector can not be turned on.)

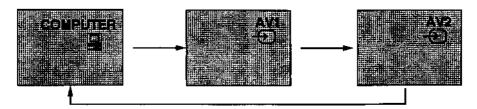




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VIDEO MODE SELECT

Press the MODE button (located on projector or remote control unit) to select Computer Input, Video Input-1 or Video Input-2. The "COMPUTER", "AV1" or "AV2" display will appear on the screen.



Press the ALTER button on the remote control unit to alternate quickly between the two modes. (Current mode and Previous mode)

For example, Computer IN/OUT Terminals and AV1 are connected with personal computer and VCR respectively. Firstly project computer image on the screen. Secondly press MODE button to select AV1. And then, press ALTER button to select previous mode (Computer mode).

CURRENT MODE			PREVIOUS MODE
AV1 MODE	-	-	COMPUTER MODE
COMPUTER MODE	-	-	AV2 MODE
AV2 MODE	-	-	AV1 MODE

VOLUME ADJUSTMENT

Press VOLUME buttons (located on projector or remote control unit) to adjust the volume. The screen display will appear.

Pressing (+) will increase volume and the green indicator will increase to the right on the screen.

Pressing (-) will decrease volume and the green indicator will decrease to the left on the screen.



SOUND MUTE ADJUSTMENT

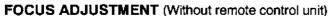
Pressing SOUND MUTE button on the remote control unit will mute audio. Press SOUND MUTE button again to restore audio to its previous level.



Press ZOOM/FOCUS button until zoom display appears on the screen, and press LEVEL (+) or (-) to obtain your desired picture size. (The zoom display will appear for 5 seconds.) For a larger picture, press (+) and for a smaller picture, press (-).



Press ZOOM (\land) or (\lor) to obtain your desired picture size. (The zoom display will appear for 5 seconds.) For a larger picture, press (\land) and for a smaller picture, press (\lor).



Press ZOOM/FOCUS button until focus display appears on the screen, and press LEVEL (+) or (-) for sharper, crisper picture. (The focus display will appear for 5 seconds.)

FOCUS ADJUSTMENT (With remote control unit)

Press FOCUS (\wedge) or (\vee) for sharper, crisper picture. (The focus display will appear for 5 seconds.)

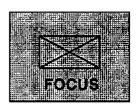


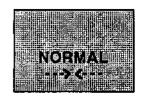
The normal picture level is factory preset on the projector and can be obtained anytime by pressing the NORMAL button on the projector, or on the remote control unit. (The Normal display will appear for 5 seconds.)

Picture adjustments can be made by using the MENU and LEVEL buttons on the projector, or on the remote control unit. (See picture adjustment on page 21-22.)



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SYSTEM SELECT

COMPUTER MODE

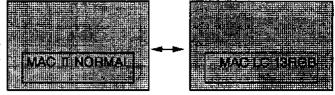
When a computer is connected to the projector and both of the computer and the projector are turned On, the type of the connected computer system appears on the screen. (See "ON-SCREEN DISPLAY" on page 27.)
If any of the following 5 computer systems is connected to the projector and the projector cannot discriminate those

systems, press the "SYSTEM" button to select the correct system of the connected computer.

- 1. "MAC II NORMAL" and "MAC LC 13RGB"
- 2. "CGA TEXT" and "CGA GRAPHIC
- 3. "APPLE II e" and "FMT 320 x 200
- 4. "VGA 640 x 400" and " VGA 720 x 400" 5. "VGA 640 x 480" and "GENOA"

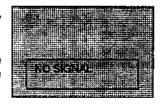
For example; The display of "MAC II NORMAL" will appear on-screen when the signal cames from Mac II normal, Super Mac and/or Raster Ops.

In case of connecting Mac LC 13" RGB monitor, press SYSTEM button (located on projector or remote control unit) to select the display of " MAC LC 13RGB".



NOTE:

- 1. If no input signal from the computer, the "NO SIGNAL" display appears on the screen.
- 2. If the projector cannot discriminate the input signal from the computer, the "NOT COMPATIBLE" display appears on the screen.



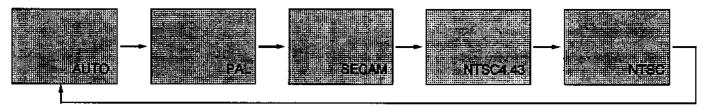


AV MODE

Press the SYSTEM button (located on projector or remote control unit) to select AUTO, PAL, SECAM, NTSC4.43 or NTSC.

Each time the SYSTEM button is pressed, the colour system changes as follows: When the colour system is set to "AUTO" position, this projector can receive colour programs from one of the 4 systems (PAL, SECAM, NTSC4.43 or NTSC), automatically.

If the picture quality is poor, make sure the proper colour system is selected to match the video source.

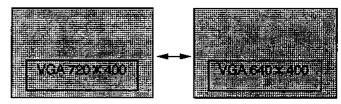


TEXT SELECT

(VGA 720 \times 400 and VGA 640 \times 400 used only)

Press the TEXT button on the remote control unit to select "VGA 720 x 400"-TEXT- or "VGA 640 x 400"-GRAPHIC-.

NOTE: "720 x 400" TEXT mode is projected to be compressed as $"640 \times 400"$.



FREEZE FUNCTION

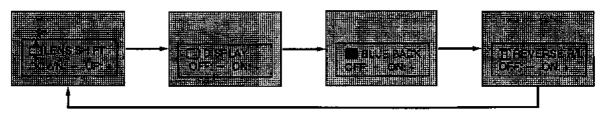
Press the FREEZE button on the remote control unit, and then, the still picture will remain on-screen. This function is cancelled when the FREEZE button is pressed again or any other function button is pressed.

NOTE: Your computer is not affected by this function, and will continue to run.

Constant and Constant state

This projector has other function settings; lens shift, display, blue background and reverse R/L. These setting by using SETTING and LEVEL buttons on the projector or remote control unit.

Press SETTING button to select the function.
 Each time the SETTING button is pressed, the control function changes as follows:



- 2. Adjust the lens shift, display, blue background and reverse R/L by pressing LEVEL (- and +) buttons.
- 3. The ON-SCREEN display will disappear automatically in 5 seconds.

LENS SHIFT

Press SETTING button (located on the projector or remote control unit) to select the lens shift function. Then press LEVEL buttons (located on the projector or remote control unit) to adjust the lens position.

Pressing (+) will shift up the lens.

Pressing (-) will shift down the lens.

The projected image position can be adjusted (maximum 300 mm, downward or upward on the 100" screen) by using this function.

DISPLAY

When this function is "ON" position, the projector to see the on-screen display of all setting and adjustment will be appeared.

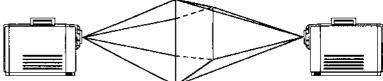
When this function is "OFF" position, the projector to see the on-screen display of any setting and adjustment (related of Picture Adjustment and Other Function Setting) will be appeared.

BLUE BACK

When this function is in the "ON" position, the projector will project the blue image without video noise on the screen when the video source is unplugged or turned off.

PICTURE SCAN

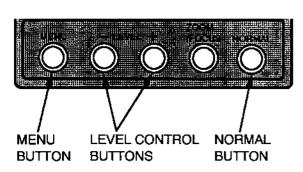
When this function is in the "ON" position, versatile left/right picture reverse capability lets you project onto a rear projection screen.

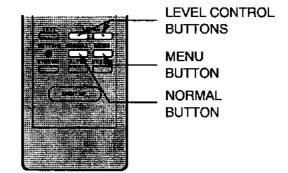


PICTURE ADJUSTMENTS

TOP CONTROLS

REMOTE CONTROL UNIT



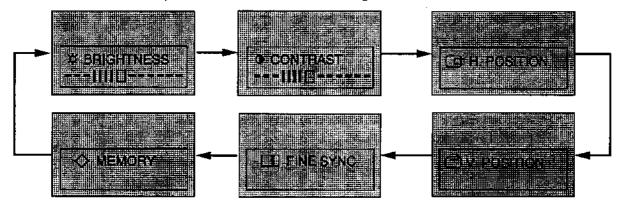


(A) COMPUTER MODE

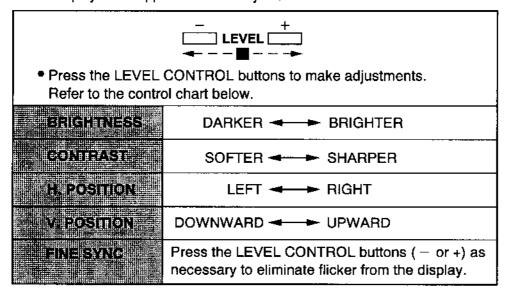
Picture adjustments have been preset at the factory to our quality standards. The picture adjustments can be made by the MENU and LEVEL buttons on the projector or on the remote control unit.

1. Press the MENU button to select the picture adjustments function.

Each time the MENU button is pressed, the control function changes as follows:



- 2. Adjust the brightness, contrast, H. position, V. position or fine sync by pressing the LEVEL (+ and -) buttons.
- 3. The ON-SCREEN display will disappear automatically in 5 seconds.



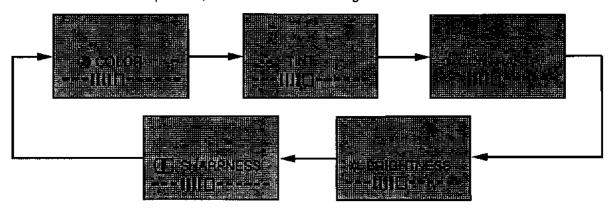
4. Then press the MENU button to select the MEMORY menu. Press the LEVEL + button to save the picture adjustment levels in memory.

NOTE: The projector is equipped with a built-in memory feature that can maintain the picture adjustment levels if the projector is turned off and AC power cord is disconnected. If NORMAL button is pressed, the projector will return to factory preset level.

(B) AV1 and AV2 MODE

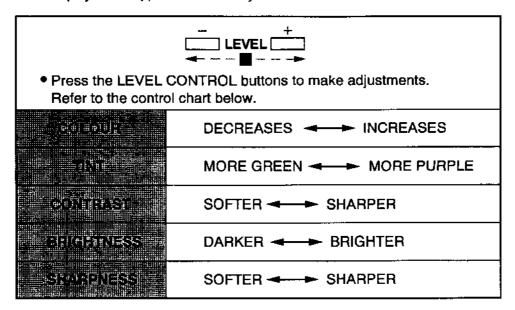
Picture adjustments have been preset at the factory to our quality standards. The picture adjustments can be made by the MENU and LEVEL buttons on the projector or on the remote control unit.

Press the MENU button to select the picture adjustments function.
 Each time the MENU button is pressed, the control function changes as follows:



NOTE: 1. "TINT" will be skipped during in the PAL and SECAM mode.

- 2. Adjust the colour intensity, tint, contrast, brightness or sharpness by pressing the LEVEL (+ and -) buttons.
- 3. The ON-SCREEN display will disappear automatically in 5 seconds.



NOTE: The projector is equipped with a built-in memory feature that can maintain the picture adjustment levels set on AV1 and AV2 respectively even if the projector is turned off and AC power cord is disconnected. If the NORMAL button is pressed, the projector will return to factory preset level.

AIR FILTER CARE AND CLEANING

The removable air filter prevents dust from accumulating on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat built up and reduce the life of the projection lamp.

When the air filter is blackened, it is time to change new air filter. Request service from an authorized dealer or service station.

Be sure to face the air filter in the correct direction when installing inside of the filter cover. Attach the air filter with the arrow on the "AIR FLOW" label facing towards the inside of the projector.

To change the air filter, follow the procedures below:

- 1. Turn the POWER (LAMP) ON/OFF button OFF.
- 2. Remove the air filter cover from the side of the projector.
- 3. Remove the air filter from the filter cover.
- Replace the air filter. Make sure that air filter cover is fully inserted.



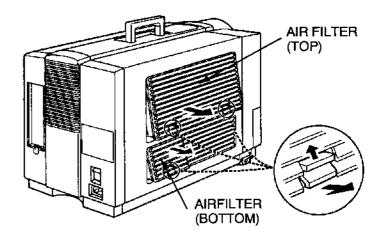
To clean the air filter, follow the cleaning procedures below:

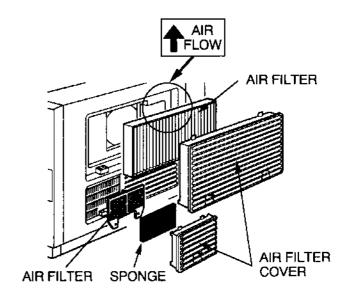
- 1. Turn the POWER (LAMP) ON/OFF button OFF.
- Remove the air filter cover from the side of the projector.
- 3. Remove the air filter and sponge from the filter cover.
- 4. Clean the air filter and sponge with a vacuum cleaner.
- Replace the air filter and sponge. Make sure that air filter cover is fully inserted.



Do not clean with water. Doing so may damage the air filter.

Do not operate the projector with air filter removed.





TO ENJOY PICTURE IMAGE, USE THE PROJECTOR IN THE CLEAN ENVIRONMENT. USAGE IN THE CLEAN ENVIRONMENT IS RECOMMENDED.

When used under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and tens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed contact the place where your purchased or the nearest service center for the cleaning.

LAMP REPLACEMENT & TEMPERATURE WARNING INDICATORS

IVAME HER VAN HENE KINDINATIONE

When the lamp nears the end of its service life, the picture quality and colour quality will deteriorate and the lamp replacement indicator will light orange.



DO NOT ATTEMPT TO REMOVE OR CHANGE THE PROJECTION LAMP. THE LAMP CAN ONLY BE CHANGED BY QUALIFIED SERVICE PERSONNEL.

TEMPERALURENVARININGUNUGALIOR

The TEMPERATURE WARNING INDICATOR flashes red when the internal temperature of the projector exceeds the normal temperature.

Possible causes for the temperature warning may be:

- 1. Ventilation slots at the side of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the Air Filter Care and Cleaning section above.
 - If temperature warning indicator remains on after performing the checks listed above, cooling fan/internal circuits may be malfunctioning. Request service from an authorized dealer or service station.

HELPFUL HINTS-Problems and Solutions

Check the following chart before requesting service.

	Tripletens Signification of the contraction of the			
No power	 Plug the projector into an AC outlet. Turn the MAINS ON/OFF switch to ON. Press the POWER (LAMP) ON/OFF button to ON. Check the READY INDICATOR light ON. One minute has not passed after the projector turned OFF. NOTE: After pressing the POWER (LAMP) ON/OFF button to OFF, the projector functions as follows. 1. The POWER and READY indicator will turn off. 2. The cooling fan will operate for 1 minute after the projector is turned off. (During this "cooling down period, the projector can not be turned on.) 3. After 1 minute, the READY indicator will light green again and the projector may be turned on by pressing the POWER (LAMP)ON/OFF button. 			
No sound from built-in speaker	 Press the VOLUME (▲) and (▼) to (▲). Check audio cable connection from audio input source. 			
No colour	Check colour system.			
Picture is reversed	Check REVERSE R/L Feature.			
Picture blurred or colour faded	◆ Check the projection distance 1.0 m ~ 16.4 m. ◆ Adjust the FOCUS control.			
	NOTE: Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the lens. In such an event, leave the projector OFF and wait until condensation disappears.			

TECHNICAL SPECIFICATIONS

Zrojejek (j. j.)	Super Brightness LCD Data-Grade projector
Explores (SKKVXII)	310 mm × 394 mm × 594 mm
Take is Weight I in the Park is the Park i	53.9 lbs (23.5 kg)
	3.1" TFT Active Matrix type (Thin Film Transistor) $ imes 3$
Windard Exeleting	921,600 (307,200 × 3)
C- GU System 1 8	4 colour system (PAL, SECAM, NTSC4.43 and NTSC)
. : : : :: (Daguna);	Adjustable from 51 cm to1143 cm (20 to 450 inch) Adjustable
A TOPOTORISTICATO I A COMPANIO	100 :1
: 1. Follrausici (Tiesto) sitiem (Tiesto) sitiem	550 TV lines
Trefs et de sans et la la company	f3.8~ 4.8 lens with 115 mm ~ 185 mm Motor-drive zoom and focus
i Kelenge par Silien - II	\pm 300 mm on 100" screen
- 4 ens Aperura	64 mm
I Inrovi Datence L. I I malaju je i	1.0 m ~ 16.4 m
: Tolacilos sino	Metal Halide, 400 watt
Fire Ection Militar	Dichroic mirror system
AV moutlegis	PHONO Type $ imes$ 6 (2 Set Video, Audio R and L), BNC Type $ imes$ 1
	DłN 4 pin (S-Video) × 1
: Gompuler input/Outplit Jack. 12	DB25 Terminal $ imes$ 1, DIN 8 Pin (SERIAL PORT) $ imes$ 1
	BNC Type × 5 (Red, Green, Blue, Horiz. Sync. and Vert. Sync.)
. Complica Androus	PHONO Type × 2 (R and L)
Video Monitorio urbut dack	PHONO Type × 1
Audio Monitol Europe decks	PHONO Type $ imes$ 2 (R and L)
- Buitin Specker . I	INT. SP. Monaural, 3 watt RMS (T.H.D. 10%)
L. lineger evalor Adjustmert	Up 5°
	100 ~ 120V, 200 ~ 240V AC, 50/60 Hz
Power Consumption:	630 Watts, 6.5/3.0 A (Max. Ampere)
Operating Translature	5 °C ~ 35 °C
Signage Comparature	– 10 °C ~ 60 °C
Remote Control Battery	AA, UM3 or R06 type $ imes$ 3
Standard Accessories 1911	Remote Control Unit, R/C Cable 5' (1.5m), AC Power Supply Cord,
	VGA Y Cable, MAC II Y Cable, Lens Cover, VGA Video
	Terminator, Macintosh Video Terminator, Owner's Instruction
	Manual and Protective Dust Cover

PRISOREEN						
April a ne	APPLE II e	560 × 192	15.70	262		_
HATCZON 200	FM-TOWNS (L)	320 × 240	15.73	262	_	
	CGA TEXT	640 × 200	15.70	262	+	+
HIZ CARGRAPHIC CONTRACTOR	CGA GRAPHIC	640 × 200	15.70	262	+	+
	HGC TEXT	720 × 350	18.14	370	+	_
	HGC GRAPHIC	720 × 348	18.52	370	+	_
	EGA TEXT	640 × 350	21.63	366	+	
iscale passie de la litera	EGA GRAPHIC	640 × 350	21.85	366	+	_
	MAC SE	512 × 342	22.25	370	+	+
TM:Gebach : 1	FM-TOWNS (640 × 400)	640 × 400	24.37	440	-	_
MAGING PARTIES	MAC LC (12" MONITOR)	512 × 384	24.48	407	_	-
	PC-9801 (640 × 400)	640 × 400	24.83	440		
Freesigki XVIIII	PC-9821 (640 × 400)	640 × 400	24.83	440	_	_
	AT&T6300 (350 LINE)	640 × 350	25.86	432	+	+
	AT&T6300 (400 LINE)	640 × 400	25.86	432	+	+
	AX-286/386	640 × 480	30.27	501	+	_
TWeve: Top in to it.	VGA 640 × 400	640 × 400	31.47	449	1	+
V(e*1720 2330)	VGA 720 × 400	720 × 400	31.47	449	_	+
nyeasansansa	VGA 640 × 350	640 × 350	31.47	449	+	_
	VGA 640 × 480	640 × 480	31.47	525	_	_
	PC-9821 (640 × 480)	640 × 480	31.47	525	_	_
VGA 640 X 480 37	FM-TOWNS (640 × 480)	640 × 480	31.47	525	_	_
	MBC-P100J	640 × 480	31.47	525	-	_
	J-3100VS	640 × 480	31.47	525	_	_
	T-4500C	640 × 480	31.32	525	-	_
ICENOA III.	GENOA 6000 (60 Hz)	640 × 480	31.47	525		_
Versamenti I	VGA 640 × 400 525 LINE	640 × 400	31.47	525	_	+
	VGA 640 × 350 525 LINE	640 × 350	31.47	525	+	
	MAC II (NORMAL)	640 × 480	35.00	525	_	+
MAG II NGEMAH	MAC II (SuperMac)	640 × 480	35.00	525	-	+
	MAC II (RasterOps)	640 × 480	35.00	525		+
	MAC LC (13"RGB-MO)	640 × 480	34.97	525	_	
	VESA VS901001	640 × 480	37.86	520	_	_
[(c = 1(a))	GENOA 6000 (70 Hz)	640 × 480	37.90	509	_	+

Specifications are subject to change without notice.