### PLEASE READ

This manual is provided as a free service by Projector.com.

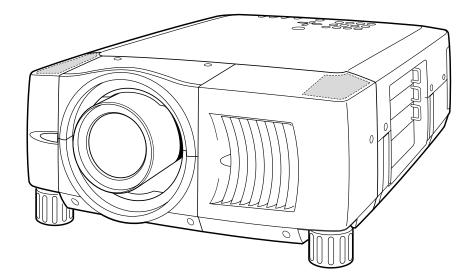
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### ABOUT PROJECTOR.COM

Projector.com (<u>http://www.projector.com</u>) is your review and buying guide resource for DLP and LCD video projectors.

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

# proxima Pro AV 9500



English	Е
Deutsch	D
Français	F
Italiano	1
Español	ES

\* Projection lens is optional.

USER'S GUIDE

- PRESENTATIONS
- WORKING SESSIONS
- TRAINING
- MULTIMEDIA
- ANIMATION
- VIDEO

## TO THE OWNER

Before operating this projector, read this manual thoroughly and operate the projector properly.

This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in better condition for a considerable time.

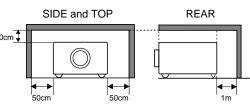
Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Trouble-shooting" section of the end of this booklet. If the problem still persists, contact the sales dealer where you purchased the projector or the service center.

# ▲ SAFETY PRECAUTIONS

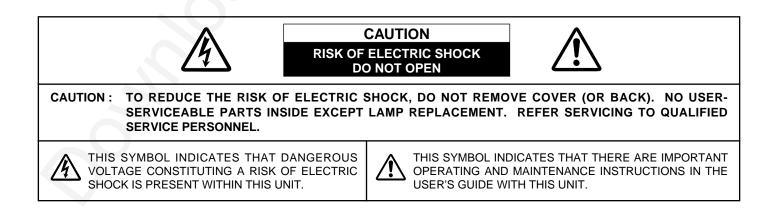
## WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- This projector produces intense light from the projection lens. Do not stare directly into the lens as possible. Eye damage could result. Be especially careful that children do not stare directly into the beam.
- This projector should be set in the way indicated. If not, it may result in a fire hazard.
- Take appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum distance should be taken. 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.



- Do not put any flammable object or spray can near the projector, hot air is exhausted from the ventilation holes.
- Remote Control Unit, supplied to this projector, emits the laser beam as the laser pointer function from Laser Light Window while pressing LASER button (for 1 minute / LASER POINTER INDICATOR lights red to indicate laser emission). Do not look into Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result.
- If the projector is not to be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS USER'S GUIDE FOR LATER USE.



## 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.

Follow all warnings and instructions marked on the projector.

For added protection to 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 power line surges.

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

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 manufacturers.

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.



Slots and openings in the back and bottom of the cabinet 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 materials, 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 book case unless proper ventilation is provided.

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. 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 may be damaged by persons walking on it.

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.

### Voor de klanten in Nederland



Bij dit product zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien

maar inleveren als KCA.

## **Federal Communication Commission Notice**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

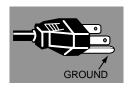
Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

## AC POWER CORD REQUIREMENT

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

### AC Power Cord for the United States and Canada :

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA). AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



### THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

### Canada

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme á la norme NMB-003 du Canada.

## EN 55022 Warning

This is a Class B product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures.

## Safety Certifications UL, CUL, TUV, NOM, IRAM

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### TRADEMARKS

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This Multimedia Projector is designed with most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

### Compatibility

This projector widely accepts various video and computer input signals including;

#### Computers

IBM-compatible or Macintosh computer up to 1600 x 1200 resolution.

#### • 6 Color Systems

NTSC, PAL, SECAM, NTSC 4.43, PAL-M or PAL-N color system can be connected.

#### Component Video

Component video signal, such as a DVD player output high definition TV signals including 480i, 480p, 575i, 575p, 720p, 1035i, 1080i-50 or 1080i-60, can be connected.

### S-Video

S-Video signal, such as a S-VHS VCR output signal, can be connected.

### High Resolution Image

This projector provides  $1024 \times 768$  dots resolution for computer input and 800 horizontal TV lines. Resolution from a computer between XGA ( $1024 \times 768$ ) and UXGA ( $1600 \times 1200$ ) is compressed into  $1024 \times 768$  dots. This projector cannot display image of over  $1600 \times 1200$  dots. When resolution of your computer is over than  $1600 \times 1200$ , reset a computer output for lower resolution.

### Multi-Scan System

This projector has Multi-Scan System to conform to almost all computer output signals quickly. There is no need for troublesome manual adjustment of frequency and other settings.

### One-Touch Auto PC Adjustment

Incoming computer video signals are recognized and best adjustment is automatically set by Auto PC Adjustment. No complicated setup is necessary and projection is always precise.

### Progressive Scan Function

This function converts interlace video signals into progressive scan signals and provide fine picture quality.

### Digital Zoom (for Computer)

Digital Zoom function adjusts image size to approx.  $1/4 \sim 49$  times of original image size, allowing you to focus on crucial information at a presentation.

### Keystone Correction

Positioning height of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

### Motor-driven Lens Shift

Projection lens can be moved up and down with motordriven lens shift function. This function makes it easy to provide projected image where you want.

Zoom and focus can be also adjusted with motor-driven operation.

### Power Management

Power Management function is provided to reduce power consumption while a projector is not in use.

This Power Management function operates to turn Projection Lamp off when a projector detects signal interruption and any button is not pressed over 5 minutes. Projection Lamp is automatically turned on again when a projector detects signal or any operation button is pressed.

This projector is shipped with this function ON.

### Digital Visual Interface

This projector is equipped with DVI 24-pin terminal for connecting DVI output from a computer.

### Multi Versatile Platform

This projector applies various input/output terminals and 3 terminal slots for expansion to tune to diversity of signals from computers and video equipment.

### Selectable Terminal Slots

3-built-in Terminal Slots enable you to arrange any combinations of input sources just by changing Terminal Boards. For Terminal Boards, contact sales dealer where you purchased a projector.

### Laser Pointer Function

Remote Control Unit supplied with this projector includes Laser Pointer function. This function helps you to make a smart presentation on a projected screen.

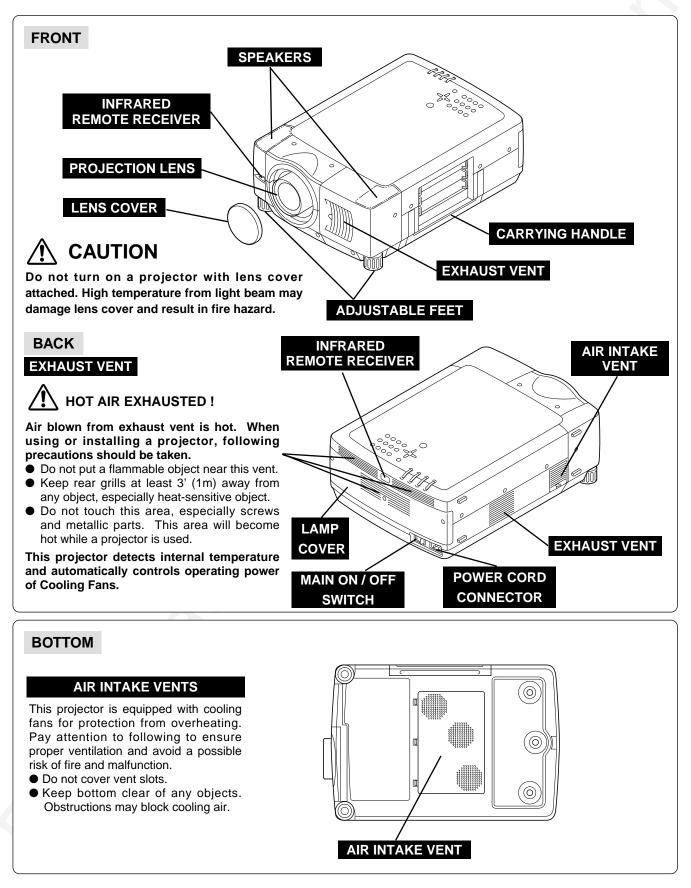
### Wireless Mouse

Remote Control Unit supplied with this projector has Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

### Multilanguage Menu Display

Operation menu is displayed in; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean or Japanese.

## NAME OF EACH PART OF PROJECTOR



### PREPARATION

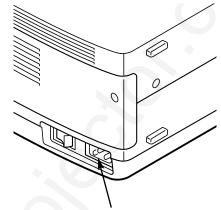
## SETTING-UP PROJECTOR

### **CONNECTING AC POWER CORD**

This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce 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 of type of power supply being in use.

Connect a projector with a peripheral equipment before turning a projector on. (Refer to pages  $12 \sim 15$  for connection.)



Connect AC Power Cord (supplied) to a projector. AC outlet must be near this equipment and must be easily accessible.

### NOTE ON POWER CORD

AC Power Cord must meet requirement of country where you use a projector. Confirm AC plug type with chart below and proper AC power cord must be used. If supplied AC Power Cord does not match AC outlet, contact your sales dealer.

Projector side	AC Outlet side				
	For U.S.A. and Canada	For Continental Europe			
To POWER CORD CONNECTOR on a projector.	Ground To AC Outlet. (120 V AC)	To AC Outlet. (200 - 240 V AC)			

## LENS INSTALLATION

Before setting up a projector, install Projection Lens on Projector.

- 1. Before installation, check where a projector is used and prepare suitable lens. For specifications of a Projection Lens, refer to manual separately attached or contact sales dealer where you purchased a projector.
- 2. For installation, refer to installation manual supplied to a Projector.



When moving or setting up a projector, be sure to replace Lens Cover to protect surface. And be careful not to hold or subject lens to strong forces. It may damage lens, cabinet, or mechanical parts.

## **POSITIONING PROJECTOR**

This projector is designed to project on a flat projection surface.

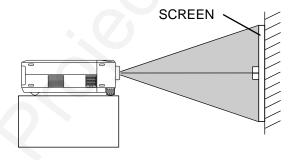
### **ROOM LIGHT**

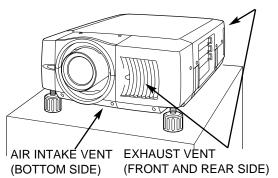
Brightness in a room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide best image.

## VENTILATION

This projector is equipped with cooling fan to protect it from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

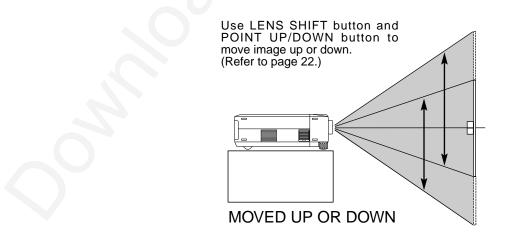
- Do not cover vents with papers or other materials.
- Keep rear grill at least 3 feet (1 m) away from any object.
- Make sure that there are no objects under a projector. An object under a projector may prevent a projector from taking cooling air through bottom vent.





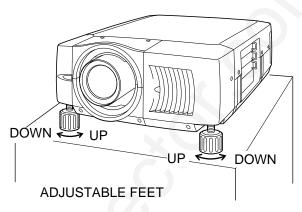
## LENS SHIFT ADJUSTMENT

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want.



## PICTURE LEVEL AND TILT ADJUSTMENT

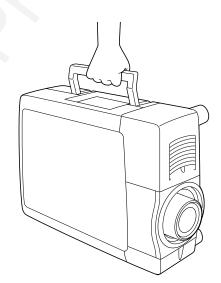
Picture tilt and projection angle can be adjusted by rotating ADJUSTABLE FEET. Projection angle can be adjusted up to 6.9 degrees by rotating Adjustable Feet.



## **MOVING PROJECTOR**



Use carry handle when moving a projector. Replace lens cover and rotate adjustable feet fully clockwise.



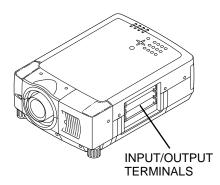
## CAUTION IN CARRYING OR TRANSPORTING A PROJECTOR

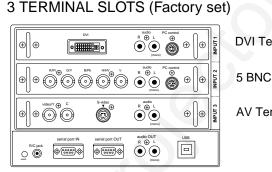
- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer and best case should be applied.

## **TERMINALS OF PROJECTOR**

This projector applies various input/output terminals and 3 terminal slots for expansion to tune to diversity of signals from computers and video equipment. 3-built-in Terminal Slots enable you to arrange desired combinations of input sources just by changing Terminal Boards. For Terminal Boards, contact sales dealer where you purchased a projector.

### NOTE; DVI Terminal is unavailable for INPUT 3 slot.





**DVI** Terminal

**5 BNC Terminal** 

AV Terminal

### **REPLACEMENT OF TERMINAL**

- Remove 2 Screws on terminal. 1
- Pull out terminal by holding handle. 2
- Replace terminal. Insert terminal along Guide to fit Plug 3 into Socket.
- Tighten screws to secure terminal. 4

## NOTES ON ORDERING OR USING **OPTIONAL INTERFACE BOARD**

When ordering or using Optional Interface Board (Terminal Board), contact your sales dealer. When contacting the sales dealer, tell the Optional Control Number (Op.cont.No.) in the menu that is located under Language Select Menu. (See page 39.)

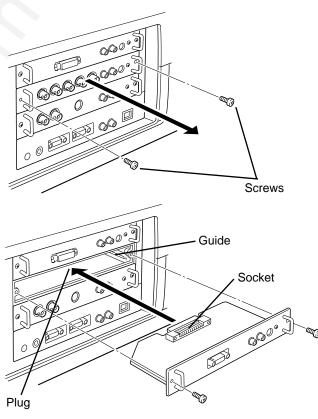


Figure shows HDB 15-PIN terminal (Optional parts).

### **INPUT/OUTPUT TERMINALS AND JACKS**

### **INPUT 2**

### **INPUT 1**

### **5 BNC INPUT JACKS**

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R/C jack

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Connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks or connect computer output [5 BNC Type (Red, Green, Blue, Horiz. Sync and Vert. Sync.)] from computer to R/Pr, G/Y, B/Pb, H/HV and V jacks. (Refer to P14, 15) Connect computer output (Digital/Analog DVI-I type) to this terminal. (Refer to P14.)

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audio OUT

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S-video

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serial port OUT

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**DVI INPUT TERMINAL** 

### **INPUT 1, 2, 3**

### **AUDIO INPUT JACKS**

Connect an audio output from computer or video equipment to these jacks. (Refer to P14, 15.)

**INPUT 1, 2** 

INPUT

KPUT 2

INPUT 3

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### CONTROL PORT CONNECTORS

When controlling computer with Remote Control of this projector, connect mouse port of your personal computer to these connectors. (Refer to P14.)

### INPUT 3

### AV INPUT (VIDEO/Y, C) JACKS

Connect composite video output from video equipment to VIDEO/Y jack or connect Separate Y/C video outputs to VIDEO/Y and C jacks. (Refer to P15.)

Connect S-VIDEO output from video equipment to this jack. (Refer to P15.)

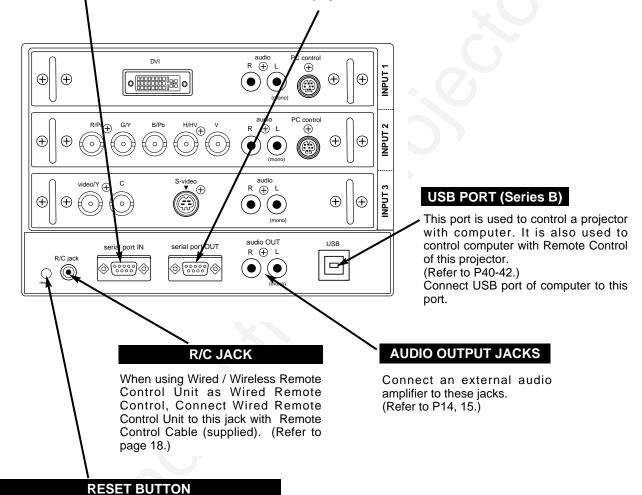
S-VIDEO INPUT JACK

**INPUT 3** 



SERIAL PORT OUT TERMINAL

If you control a projector by computer, you must connect a cable (not provided) from your computer to this terminal. This terminal outputs signal from SERIAL PORT IN. More than two projectors can be controlled with one computer by connecting SERIAL PORT IN. of another projector to this terminal.



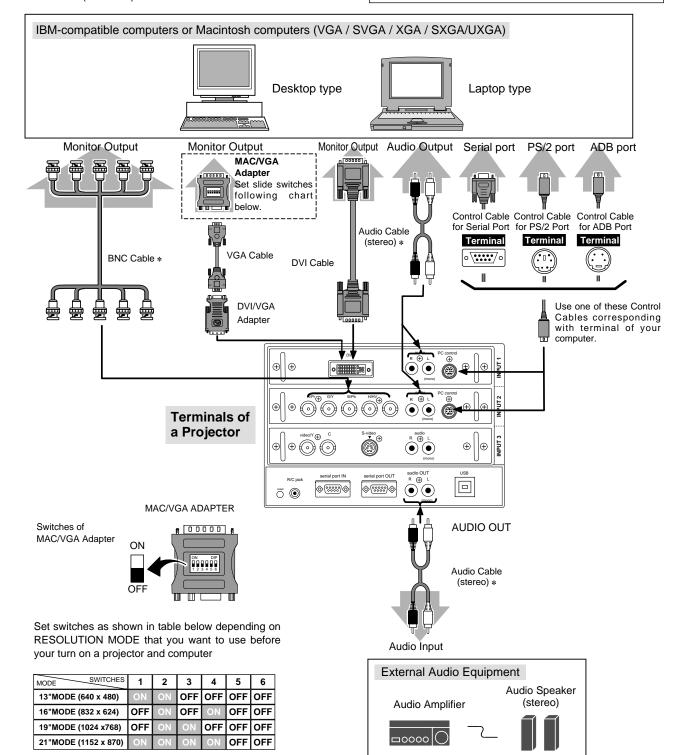
This projector uses a micro processor to control a unit. Occasionally, this micro processor may malfunction and need to be reset. This can be done by pressing RESET button with a pen, which will shut down and restart unit. Do not use RESET function excessively.

## **CONNECTING TO COMPUTER**

Cables used for connection (\* = Cables are not supplied with this projector.)

- VGA Cable (HDB 15 pin)
- Control Cable for PS/2 port, Serial port, or ADB port
- MAC/VGA Adapter, DVI/VGA Adapter
- DVI Cable
- BNC Cable (BNC x 5) \*
- Audio Cables (RCA x 2) \*

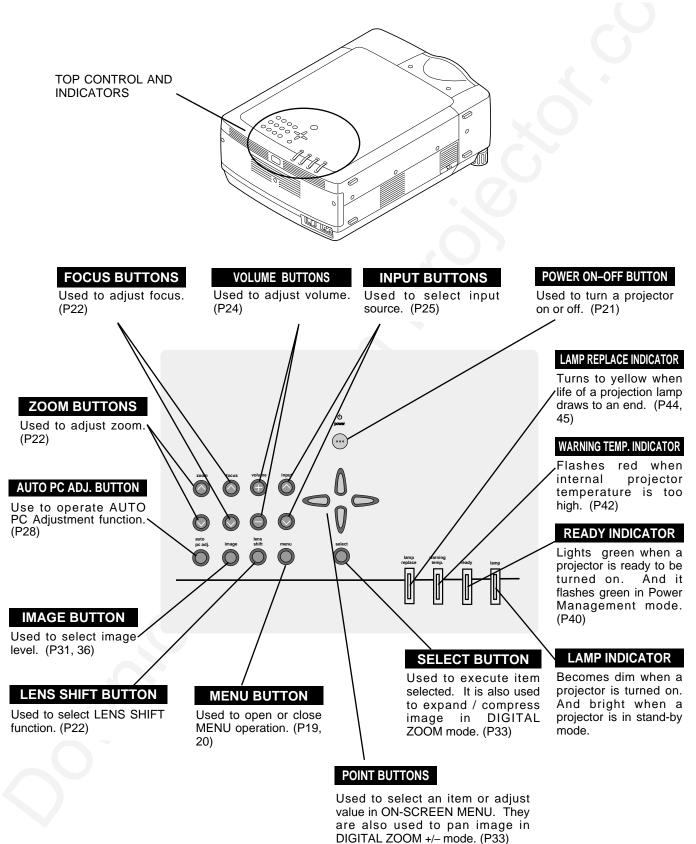
**NOTE :** When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet. Turn a projector and peripheral equipment on before computer is switched on.



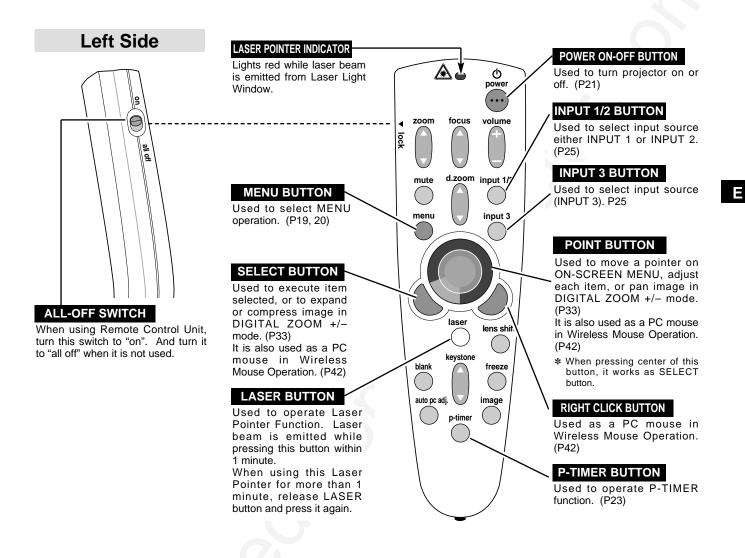
#### **CONNECTING TO VIDEO EQUIPMENT** Cables used for connection NOTE : • Video Cable (BNC x 1, BNC x 2 or BNC x 3) \* When connecting cable, power cords of both a projector and external equipment should be S-VIDEO Cable \* disconnected from AC outlet. Turn a projector • Audio Cable (RCA x 2) \* and peripheral equipment on before computer is (\* = Cables are not supplied with this projector.) switched on. Component video output equipment. Video Source (example) (such as DVD player or Video Cassette Recorder Video Disc Player high-definition TV source.) 000 Composite Separate Y/C Component Video Output S-VIDEO Output Audio Output Video Output Video Output Pr/Cr Y Pb/Cb LR 🗍 ₩ Video S-VIDEO Audio Cable Cable \* Cable \* (Stereo) \* Video Cable \* Video S-VIDEO Cable \* Ŧ AV AUDIO IN Pr/Cr-Y-Pb/Cb VIDEO Y-C PC co DVI audio Ð $\oplus$ (IIII) NPUT o ######## o • ٢Æ Ŧ INPUT 2 Æ $\overline{\bigcirc}$ Æ () $( \bullet )$ Terminals of a Projector $\oplus$ INPUT 3 -Æ $\oplus$ $(\bigcirc$ $\oplus$ $\oplus$ [•)} (ullet)audio OUT erial port IN serial port OUT R 🕀 L R/C iacł 0:::::0 0:::::0 $\bigcirc$ $\bigcirc$ AUDIO OUT Audio Cable (Stereo) \* Audio Input External Audio Equipment Audio Amplifier Audio Speaker (stereo) □0000

## **TOP CONTROLS AND INDICATORS**

This projector has CONTROL BUTTONS (TOP CONTROLS) and INDICATORS on its top.



## **OPERATION OF REMOTE CONTROL**

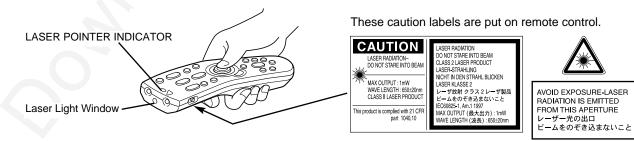


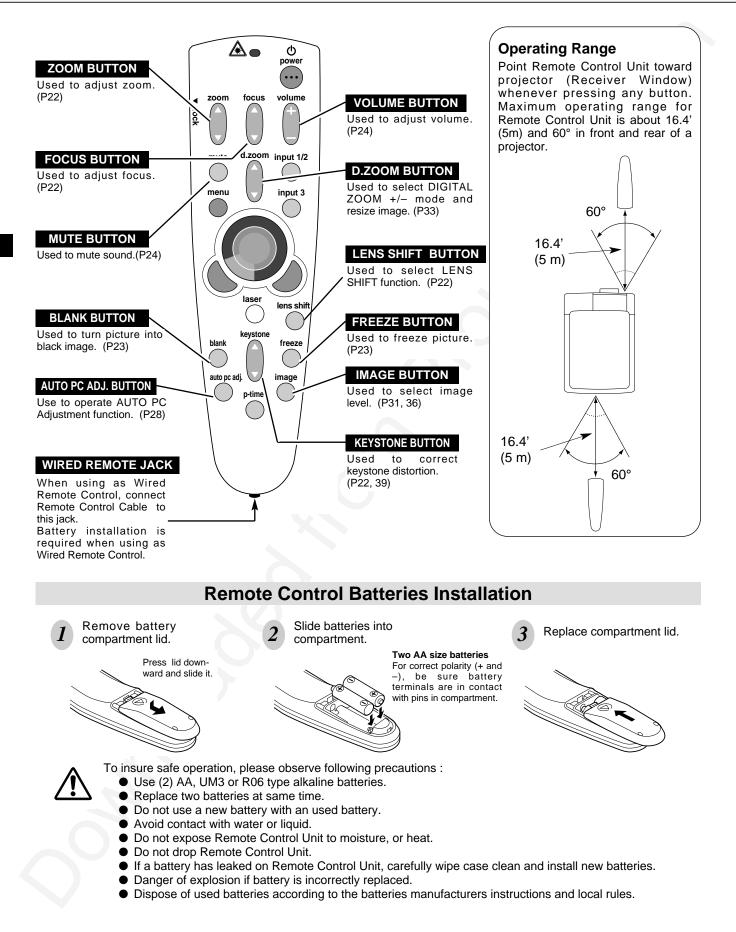
## LASER POINTER FUNCTION

This Remote Control Unit emits a laser beam as laser pointer function from Laser Light Window. When LASER button is pressed, laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. LASER POINTER INDICATOR lights RED and Laser is emitted with RED light to indicate laser beam is being emitted.

Laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine laser beam on yourself or other people. Three marks bellow are caution labels for laser beam.

**CAUTION**: Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.





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#### **OPERATING ON-SCREEN MENU** HOW TO OPERATE ON-SCREEN MENU You can control and adjust this projector through ON-SCREEN WIRELESS REMOTE CONTROL MENU. Refer to following pages to operate each adjustment on POINT BUTTON ON-SCREEN MENU. Used to move Pointer UP/ DOWN/ RIGHT/ 1 DISPLAY MENU LEFT. Press MENU button to display ON-SCREEN MENU. 00 2 MOVING POINTER SELECT BUTTON Move pointer (\* see below) or adjust value of item by pressing Used to select item. POINT button(s) on Top Control or on Remote Control Unit. **TOP CONTROL** \* Pointer is a icon on ON-SCREEN MENU to select item. See figures on section "FLOW OF ON-SCREEN MENU OPERATION" ...) POINT BUTTONS below. Used to move Pointer UP/ DOWN/ RIGHT/ I FFT 3 SELECT ITEM Select item or set selected function by pressing SELECT button. SELECT BUTTON Used to select item. FLOW OF ON-SCREEN MENU OPERATION MENU BAR -MENU ICON **Display ON-SCREEN MENU** Press MENU button to display ON-SCREEN MENU (MENU 1 Contrast Ð SVGA 1 旦 90 BAR). A red frame is POINTER. PÓINTER 0 POINTER (red frame) (red frame) Select Menu to be adjusted **\*** Press POINT DOWN button to move POINTER. Move POINTER (red frame) to MENU ICON that you want to 2 Ø select by pressing POINT RIGHT / LEFT buttons. Ð **ITEM** Control or adjust item through ON-SCREEN MENU ۳ 3 Press POINT DOWN button and move POINTER (red frame or red arrow) to ITEM that you want to adjust, and then press SELECT SELECT button to show ITEM DATA. BUTTON Adjust ITEM DATA by pressing POINT RIGHT / LEFT 4 buttons. Refer to following pages for details of respective 32 œ adjustments. ò 32 ¢ 32

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32

32 0

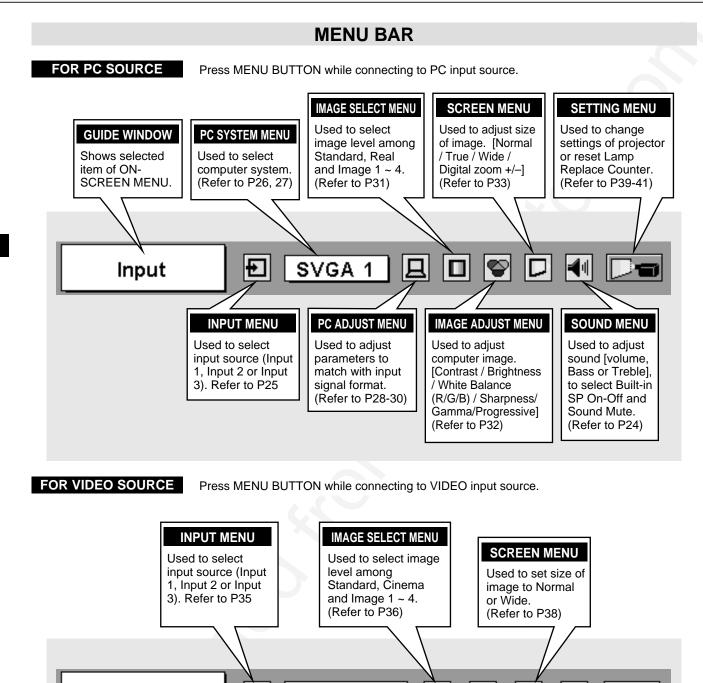
15

**ITEM DATA** 

set function.

Press POINT LEFT/RIGHT

buttons to adjust value or



Auto

**IMAGE ADJUST MENU** 

Used to adjust picture image.

[Contrast / Brightness / Color /

Tint / White balance (R/G/B) /

Sharpness / Gamma/Noise Reduction/Progressive] (Refer to P37, 38) Same function as

Menu for PC source.

20

Input

Same function as

Menu for PC source.

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**AV SYSTEM MENU** 

system of selected

Used to select

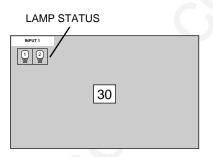
video source.

(Refer to P35)

## **TURNING ON / OFF PROJECTOR**

## **TURNING ON PROJECTOR**

- Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING TO PROJECTOR" on Pages 12~15 for connecting that equipment.)
- 2 Connect a projector's AC Power Cord into a wall outlet and turn MAIN ON / OFF SWITCH to ON. LAMP indicator lights RED, and READY indicator lights GREEN.
- **3** Press POWER ON-OFF button on Top Control or on Remote Control Unit to ON. LAMP indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and countdown starts. Signal from source appears after 30 seconds. Current Input position and Lamp status are also displayed on screen for 5 seconds. (Refer to "LAMP MANAGEMENT" on page 44.)



Preparation Display disappears after 30 seconds.

## **TURNING OFF PROJECTOR**

- *I* Press power ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.
- Press power ON-OFF button again to turn off projector. LAMP indicator lights bright and READY indicator turns off. After approximate 90 seconds, READY indicator will light green again and projector may be turned on by pressing power ON-OFF button.
- 3 Cooling fans will operate for approximate 2 minutes after projector is turned off. To power down completely, turn MAIN ON/OFF SWITCH to OFF and disconnect AC Power Cord.

[	Power off?

Message disappears after 4 seconds.



TO MAINTAIN LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When Power Management function is ON, projector detects signal interruption and turns off Projection Lamp automatically. Refer to "Power Management" on pages 39 and 40.

When WARNING TEMP. indicator flashes red, projector is automatically turned off. Wait at least 5 minutes before turning on projector again.

When WARNING TEMP. indicator continues to flash, follow procedures below:

- 1. Turn MAIN ON / OFF SWITCH to OFF and disconnect AC Power Cord from an AC outlet.
- 2. Check Air Filters for dust accumulation.
- 3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 43.)
- 4. Turn a projector on again.

If WARNING TEMP. indicator should still continue to flash, contact sales dealer where you purchased this projector or service center.

## **ADJUSTING SCREEN**

## ZOOM ADJUSTMENT

- Press ZOOM ▲/▼ button on Top Control or on Remote Control 1 Unit. Message "Zoom" is displayed.
- Press ZOOM ▲ button to make image larger, and press ZOOM 2 ▼ button to make image smaller.

	Zoom	
Message disa	appears after 4	seconds.

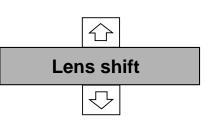
## FOCUS ADJUSTMENT

- Press FOCUS ▲/▼ button on Top Control or on Remote Control 1 Unit. Message "Focus" is displayed.
- Adjust focus of image by pressing FOCUS  $\blacktriangle/\nabla$  button(s). 2

Focus
Message disappears after 4 seconds.

## LENS SHIFT ADJUSTMENT

- Press LENS SHIFT button on Top Control or on Remote Control 1 Unit. Message "Lens shift" is displayed.
- Press POINT UP button to move image up, press POINT DOWN 2 button to move image down.



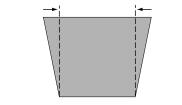
Message disappears after 4 seconds.

## **KEYSTONE ADJUSTMENT**

If a projected picture has keystone distortion, correct image with KEYSTONE adjustment.

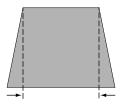
- Press KEYSTONE ▲/▼ button on Remote Control Unit or select 1 Keystone on SETTING menu. (Refer to page 39.) Keystone dialog box appears.
- Correct keystone distortion by pressing KEYSTONE ▲/▼ button 2 or POINT UP/DOWN button(s). Press KEYSTONE ▲ button or POINT UP button to reduce upper part of image, and press KEYSTONE ▼ button or POINT DOWN button to reduce lower part.

Reduce upper width with KEY STONE ▲ button or POINT UP button.





Reduce lower width with KEY STONE ▼ button or POINT DOWN button.



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## **PICTURE FREEZE FUNCTION**

Press FREEZE button on Remote Control Unit to freeze picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button except POINT / SELECT / RIGHT CLICK / P-TIMER / LASER button.

## **BLANK FUNCTION**

Press BLANK button on Remote Control Unit to black out a image. To restore to normal, press BLANK button again or press any other button.



Message disappears after 4 seconds.

## **P-TIMER FUNCTION**

Press P-TIMER button on Remote Control unit. Timer display "00 : 00" appears on a screen and timer starts to count time (00 : 00 ~ 59 : 59). To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function.



## SOUND ADJUSTMENT

### DIRECT OPERATION

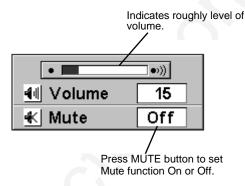
### Volume

Press VOLUME (+/-) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears on screen for a few seconds.

(+) button to increase volume, and (-) button for decreasing.

#### Mute

Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+/-) button(s).



Display disappears after 4 seconds.

### MENU OPERATION

- Press MENU button and ON-SCREEN MENU will appear. Press 1 POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon.
- Press POINT DOWN button to move a red frame pointer to item 2 that you want to select, and then press SELECT button.

## Volume

To increase volume, press POINT RIGHT button, and press POINT LEFT button for decreasing.



To adjust Treble sound, press POINT RIGHT button or POINT LEFT button.



To adjust Bass sound, press POINT RIGHT button or POINT LEFT button.

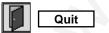


Press POINT LEFT/RIGHT button(s) to switch built-in speaker on and off.



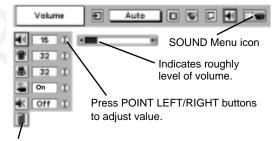
Mute

Press POINT LEFT/RIGHT button(s) to cut off sound. Dialog box display is changed to "On" and sound is cut off. To restore sound to its previous level, press POINT LEFT/RIGHT button(s) again.



Closes SOUND MENU.

### SOUND MENU



Close SOUND Menu.

## **SELECTING INPUT SOURCE**

## DIRECT OPERATION

Select INPUT source by pressing INPUT 1/2 and INPUT 3 buttons on Remote Control Unit.

Select INPUT source by pressing INPUT ▲/▼ button on Top Control.

## MENU OPERATION

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select Input and press SELECT button. Another dialog box INPUT SELECT Menu will appear.
- Press POINT DOWN button and a red-arrow icon will appear. 2 Move arrow to INPUT source that you want to select, and then press SELECT button.

## SELECTING COMPUTER SYSTEM

### WHEN SELECT INPUT 1 (DVI INPUT TERMINAL)

- Press MENU button and ON-SCREEN MENU will appear. Press 1 POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- Press POINT DOWN button to move a red arrow pointer to Input 1 and then press SELECT button. Source Select Menu will appear.
- Move a pointer to either Digital or Analog and then press 3 SELECT button.
- When digital signal is connected on DVI terminal, select Digital Digital.

Analog

When analog signal is connected on DVI terminal, select Analog.

### WHEN SELECT INPUT 2 (5 BNC INPUT JACKS )

When connect a computer output [5 BNC Type (Red, Green, Blue, Horiz. Sync and Vert. Sync.)] from a computer to R/Pr, G/Y, B/Pb, H/HV and V jacks.

- Press MENU button and ON-SCREEN MENU will appear. Press 1 POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.
- Press POINT DOWN button and a red-arrow icon will appear. 3 Move arrow to "RGB", and then press SELECT button.

### **INPUT MENU**

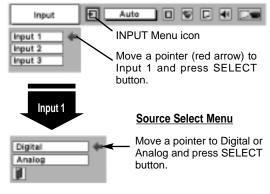
**INPUT MENU** 

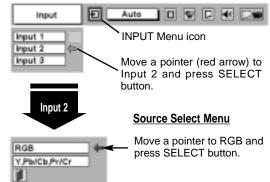
**INPUT 1/2 button** 

**INPUT 1** 

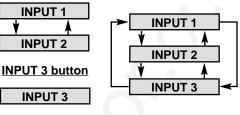
**INPUT 2** 

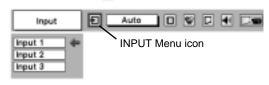
**INPUT 3** 





#### **INPUT ▲**/**▼** buttons





### AUTOMATIC MULTI-SCAN SYSTEM

This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA, SXGA or UXGA (refer to "COMPATIBLE COMPUTER SPECIFICATION" on page 27). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting. (Some computers need setting manually.)

Note : Projector may display one of following messages.

Auto When projector cannot recognize connected signal as PC system provided in this projector, Auto PC Adjustment function operates to adjust projector and message "Auto" is displayed on SYSTEM Menu icon. (Refer to P28.) When image is not provided properly, manual adjustment is required. (Refer to P29 and 30.)



There is no signal input from computer. Make sure connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 46.)

### D-VGA, D-SVGA, D-XGA, D-SXGA 1, D-SXGA 2 or D-SXGA 3

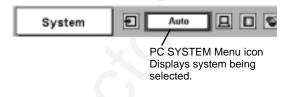
When digital computer signal is received on DVI terminal, above message is displayed on PC SYSTEM Menu icon.

## SELECT COMPUTER SYSTEM MANUALLY

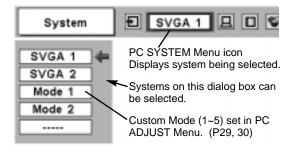
This projector automatically selects PC system among those provided in this projector and PC system can be also selected manually.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to PC SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to set, and then press SELECT button.

#### PC SYSTEM MENU



#### PC SYSTEM MENU



## **COMPATIBLE COMPUTER SPECIFICATIONS**

Basically this projector can accept a signal from all computers with V, H-Frequency mentioned below and less than 230 MHz of Dot Clock.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	XGA 13	1024 x 768	46.90	58.20
VGA 2	720 x 400	31.47	70.09	XGA 14	1024 x 768	47.00	58.30
VGA 3	640 x 400	31.47	70.09	XGA15	1024 x 768	58.03	72.0
VGA 4	640 x 480	37.86	74.38	MAC 19	1024 x 768	60.24	75.08
VGA 5	640 x 480	37.86	72.81	MAC 21	1152 x 870	68.68	75.06
VGA 6	640 x 480	37.50	75.00	SXGA 1	1152 x 864	64.20	70.40
VGA 7	640 x 480	43.269	85.00	SXGA 2	1280 x 1024	62.50	58.60
MAC LC13	640 x 480	34.97	66.60	SXGA 3	1280 x 1024	63.90	60.00
MAC 13	640 x 480	35.00	66.67	SXGA 4	1280 x 1024	63.34	59.98
RGB	(Interlace)	15.734	30	SXGA 5	1280 x 1024	63.74	60.01
RGB	(Interlace)	15.625	25	SXGA 6	1280 x 1024	71.69	67.19
575p	(Progressive)	31.25	50	SXGA 7	1280 x 1024	81.13	76.107
SVGA 1	800 x 600	35.156	56.25	SXGA 8	1280 x 1024	63.98	60.02
SVGA 2	800 x 600	37.88	60.32	SXGA 9	1280 x 1024	79.976	75.025
SVGA 3	800 x 600	46.875	75.00	SXGA 10	1280 x 960	60.00	60.00
SVGA 4	800 x 600	53.674	85.06	SXGA 11	1152 x 900	61.20	65.20
SVGA 5	800 x 600	48.08	72.19	SXGA 12	1152 x 900	71.40	75.60
SVGA 6	800 x 600	37.90	61.03	SXGA 13	1280 x 1024 (Interlace)	50.00	43.00
SVGA 7	800 x 600	34.50	55.38	SXGA 14	1280 x 1024 (Interlace)	50.00	47.00
SVGA 8	800 x 600	38.00	60.51	SXGA 15	1280 x 1024	63.37	60.01
SVGA 9	800 x 600	38.60	60.31	SXGA 16	1280 x 1024	76.97	72.00
SVGA 10	800 x 600	32.70	51.09	SXGA 17	1152 x 900	61.85	66.00
SVGA 11	800 x 600	38.00	60.51	SXGA 18	1280 x 1024 (Interlace)	46.43	43.35
MAC 16	832 x 624	49.72	74.55	SXGA 19	1280 x 1024	63.79	60.18
XGA 1	1024 x 768	48.36	60.00	SXGA 20	1280 x 1024	91.146	85.024
XGA 2	1024 x 768	68.677	84.997	MAC	1280 x 960	75.00	75.08
XGA 3	1024 x 768	60.023	75.03	MAC	1280 x 1024	80.00	75.08
XGA 4	1024 x 768	56.47	70.07	UXGA 1	1600 x 1200	75.00	60.00
XGA 5	1024 x 768	60.31	74.92	UXGA 2	1600 x 1200	81.25	65.00
XGA 6	1024 x 768	48.50	60.02	UXGA 3	1600 x 1200	87.50	70.00
XGA 7	1024 x 768	44.00	54.58	UXGA 4	1600 x 1200	93.750	75.00
XGA 8	1024 x 768	63.48	79.35	720p	(Progressive)	45.00	60.00
XGA 9	1024 x 768 (Interlace)	36.00	43.59	1035i	(Interlace)	33.75	30.00
XGA 10	1024 x 768	62.04	77.07	1080i60	(Interlace)	33.75	30.00
XGA 11	1024 x 768	61.00	75.70	1080i50	(Interlace)	31.25	25.00
XGA 12	1024 x 768 (Interlace)	35.522	43.48				

When a input signal is digital from DVI terminal, refer to chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.469	59.940	D-SXGA 1	1280 x 1024	63.981	60.020
D-SVGA	800 x 600	37.879	60.317	D-SXGA 2	1280 x 1024	60.276	58.069
D-XGA	1024 x 768	48.363	60.004	D-SXGA 3	1280 x 1024	31.65	29.8

**NOTE :** Specifications are subject to change without notice.

## PC ADJUSTMENT

## AUTO PC ADJUSTMENT

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots and Picture Position to conform to your computer. Auto PC Adjustment function can be operated as follows.

### Auto PC Adj.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SELECT button twice. This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Top Control or on Remote Control Unit.

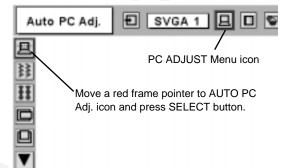
#### Store adjustment parameters.

Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, setting can be done just by selecting Mode in PC SYSTEM Menu (P26). Refer to step 3 of MANUAL PC ADJUSTMENT section (P30).

### <u>NOTE</u>

- Fine sync, Total dots and Picture Position of some computers can not be fully adjusted with this Auto PC Adjustment function. When image is not provided properly through this function, manual adjustments are required. (Refer to page 29, 30.)
- Auto PC Adjustment function cannot be operated in Digital Signal input on DVI terminal and "RGB", "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).

### PC ADJUST MENU



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## MANUAL PC ADJUSTMENT

This projector can automatically tune to display signals from most personal computers currently distributed. However, some computers employ special signal formats which are different from standard ones and may not be tuned by Multi-Scan system of this projector. If this happens, projector cannot reproduce a proper image and image may be recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.

This projector has a Manual PC Adjustment to enable you to precisely adjust several parameters to match with those special signal formats. This projector has 5 independent memory areas to memorize those parameters manually adjusted. This enables you to recall setting for a specific computer whenever you use it.

- Note : This PC ADJUST Menu cannot be operated in Digital Signal input on DVI terminal and "RGB" is selected on PC SYSTEM MENU (P26).
- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.
- Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.

### Fine sync

Adjusts an image as necessary to eliminate flicker from display. Press POINT LEFT/RIGHT button to adjust value.(From 0 to 31.)

### Total dots

Number of total dots in one horizontal period. Press POINT LEFT/RIGHT button(s) and adjust number to match your PC image.

### Horizontal

Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust position.



Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust position.

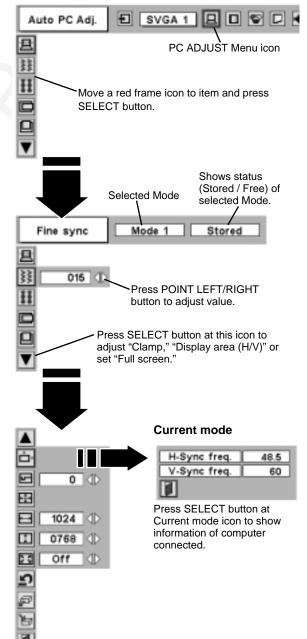


Press SELECT button to show information of computer selected.

### Clamp

Adjusts clamp position. When a image has a dark bar(s), try this adjustment.

### PC ADJUST MENU



### Display area

Selects area displayed with this projector. Select resolution at Display area dialog box.

### Display area H

Adjustment of horizontal area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

### Display area V

Adjustment of vertical area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.



Press POINT LEFT/RIGHT button(s) to switch Full screen function to "On" or "Off." Set "On" to resize image with 4 x 3 aspect ratio to fit a screen.

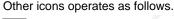
NOTE : Display area (H/V) and Full screen cannot be adjusted when "1035i (HDTV)", "1080i50(HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).

### 3 🖹 Store

To store adjustment parameters, move a red frame pointer to Store icon and then press SELECT button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store and then press SELECT button.

### Mode free

To clear adjustment parameters previously set, move a red frame pointer to Mode free icon and then SELECT button. Move a red arrow pointer to Mode that you want to clear and then press SELECT button.

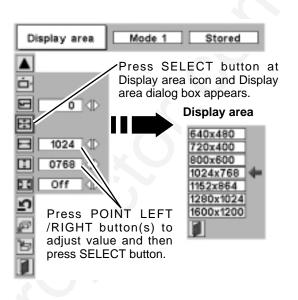




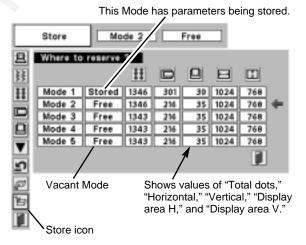
Reset all adjust parameters on adjustment dialog box to previous figure.



Closes	PC AD	JUST	MENU.
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#### To store adjustment data.



#### To clear adjustment data.

Mode free Mode 1 Stored								
昱	Which me	de to fr	ee ?					
韩			ŦŦ			8		
Ħ	Mode 1	Stored	1346	301	39	10.24	768	4
#	Mode 2	Free	1346	216	35	1024	768	
	Mode 3	Free	1343	216	35	1024	768	
	Mode 4	Free	1343	216	35	1024	768	
	Mode 6	Free	1343	216	35	1024	768	
<b>₽</b>								
Close this dialog box.								
H	wode tre	e icon						

## PICTURE IMAGE ADJUSTMENT

## **IMAGE LEVEL SELECT (DIRECT)**

Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

### Standard

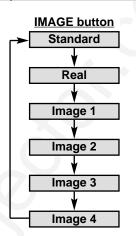
Normal picture level preset on this projector.

### Real

Picture level with improved halftone for graphics.

### IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P32).



## IMAGE LEVEL SELECT (MENU)

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

### ♦♦♦ Standard

Normal picture level preset on this projector.

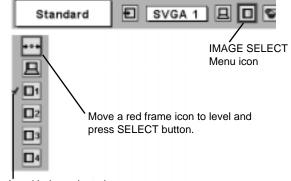
### Real

Picture level with improved halftone for graphics.

### 1 IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P32).

### IMAGE SELECT MENU



Level being selected.

## **IMAGE LEVEL ADJUSTMENT**

- Press MENU button and ON-SCREEN MENU will appear. Press 1 POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon.
- Press POINT DOWN button to move a red frame pointer to item 2 that you want to adjust and then press SELECT button. Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

### Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)



Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

### White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

#### Þ White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

### White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

### Sharpness

Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.)

### Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)



### Progressive

Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on.

#### 3 Store

To store manually preset image, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image 1 to 4 where you want to set and then press SELECT button.

Other icons operates as follows.

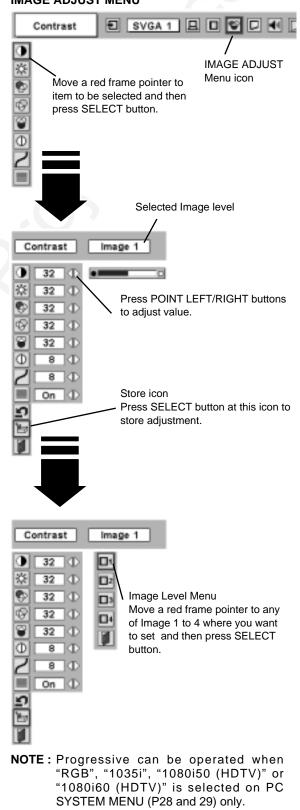


Reset all adjustment to previous figure.



Closes IMAGE MENU.

### **IMAGE ADJUST MENU**



## **PICTURE SCREEN ADJUSTMENT**

This projector has a picture screen resize function, which enables you to display desirable image size.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.



Provides image to fit screen size.



Provides image in its original size. When original image size is larger than screen size (1024 x 768), this projector enters "Digital zoom +" mode automatically.



Provides image to fit wide video aspect ratio (16 : 9) by expanding image width uniformly. This function can be used for providing a squeezed video signal at 16 : 9.

### Digital zoom +

When Digital zoom + is selected, ON-SCREEN MENU disappears and message "D. Zoom +" is displayed. Press SELECT button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan image. Panning function can work only when image is larger than screen size.

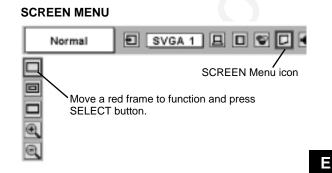
A projected image can be also expanded by pressing D.ZOOM ▲ button on Remote Control Unit.

### Digital Zoom –

When Digital zoom – is selected, ON-SCREEN MENU disappears and message "D. Zoom –" is displayed. Press SELECT button to compress image size.

A projected image can be also compressed by pressing D.ZOOM ▼ button on Remote Control Unit.

To cancel Digital Zoom +/– mode, press any button except D.ZOOM  $\blacktriangle$ , SELECT, POINT and AUTO PC ADJ. buttons.



### <u>NOTE</u>

- True and Digital zoom +/- cannot be operated when "RGB", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).
- Wide cannot be selected when "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).
- This projector cannot display any resolution higher than 1600 X 1200. If your computer's screen resolution is higher than 1600 X 1200, reset resolution to lower before connecting projector.
- Image data in other than XGA (1024 x 768) is modified to fit screen size in initial mode.
- Panning function may not operate properly if computer system prepared on PC ADJUST Menu is used.

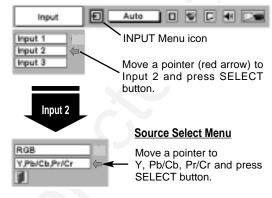
## SELECTING INPUT SOURCE

### WHEN SELECT INPUT 2 (5 BNC INPUT JACKS )

When connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks.

- *I* Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.
- **3** Press POINT DOWN button and a red-arrow icon will appear. Move arrow to "Y, Pb/Cb, Pr/Cr" and then press SELECT button.

### INPUT MENU



### WHEN SELECT INPUT 3 (AV TERMINAL )

When connecting to those equipment, select a type of Video source in SOURCE SELECT (VIDEO) Menu.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- Press POINT DOWN button to move a red arrow pointer to Input 3 and then press SELECT button. Source Select Menu will appear.
- **3** Move a pointer to source that you want to select and then press SELECT button.

Video

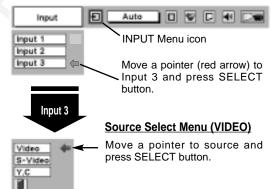
When video input signal is connected to VIDEO jack, select Video.



When video input signal is connected to S-VIDEO jack, select S-Video.

Y,C When video input signal is connected to VIDEO/Y, C jacks, select Y, C.

### INPUT MENU



## SELECTING VIDEO SYSTEM

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to select and then press SELECT button.

### **VIDEO JACK OR S-VIDEO JACK**

#### Auto

Projector automatically detects incoming Video system, and adjusts itself to optimize its performance.

When Video System is PAL-M or PAL-N, select system manually first.

### PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

If projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

### Y, Pb/Cb, Pr/Cr JACKS

### Auto

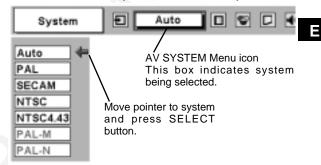
Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.

When Video System is 1035i, 1080i50 or 1080i60, select system manually first.

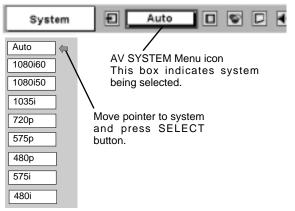
#### COMPONENT VIDEO SIGNAL FORMAT

If projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i , 1080i50 or 1080i60.

### AV SYSTEM MENU (VIDEO OR S-VIDEO)



#### AV SYSTEM MENU (COMPONENT VIDEO)



# **VIDEO INPUT**

# PICTURE IMAGE ADJUSTMENT

# **IMAGE LEVEL SELECT (DIRECT)**

Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

#### Standard

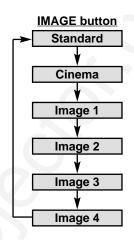
Normal picture level preset on this projector.

## Cinema

Picture level adjusted for picture with fine tone.

### IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P38).



# **IMAGE LEVEL SELECT (MENU)**

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

### ♦♦♦ Standard

Normal picture level preset on this projector.

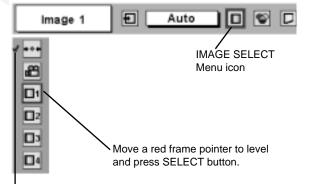
### Cinema

Picture level adjusted for picture with fine tone.

## 1 IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P38).

### IMAGE SELECT MENU



Level being selected.

#### **IMAGE LEVEL ADJUSTMENT** Press MENU button and ON-SCREEN MENU will appear. Press **IMAGE ADJUST MENU** POINT LEFT/RIGHT button(s) to move a red frame pointer to Ð IMAGE ADJUST Menu icon. Contrast Auto Press POINT DOWN button to move a red frame pointer to item IMAGE ADJUST that you want to adjust and then press SELECT button. Level of Move a red frame pointer to ġ. Menu icon each item is displayed. Adjust each level by pressing POINT item to be selected and then LEFT/RIGHT button(s). press SELECT button. æ Contrast Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.) Brightness Press POINT LEFT button to adjust image darker, and POINT Contrast Image 1 RIGHT button to adjust brighter. (From 0 to 63.) 0 32 🔿 Color Ô 32 🕕 Press POINT LEFT button to lighten color, and POINT RIGHT button 6 Press POINT LEFT/RIGHT buttons 32 to deeper color. (From 0 to 63.) to adjust value. æ 32 Tint Press SELECT button at this icon to Press POINT LEFT button or POINT RIGHT button to obtain proper display other items. color. (From 0 to 63.) White balance (Red) Press SELECT button at this icon to Press POINT LEFT button to lighten red tone and POINT RIGHT display previous items. button to deeper tone. (From 0 to 63.) White balance (Green) Ø 32 Press POINT LEFT button to lighten green tone and POINT RIGHT q 32 Press POINT LEFT/RIGHT buttons button to deeper tone. (From 0 to 63.) e 32 C to adjust value. Φ White balance (Blue) 15 C Press POINT LEFT button to lighten blue tone and POINT RIGHT 8 (1) button to deeper tone. (From 0 to 63.) Off C On KD Sharpness Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.) Press SELECT button at this icon to store value. Gamma Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

# Noise reduction

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Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to "On" to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.



Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on.

### NOTE :

Tint cannot be adjusted when video system is PAL, SECAM, PAL-M or PAL-N.

Noise Reduction cannot be operated when video signal types and systems as follow.

- Composite video signal (SECAM, NTSC4.43, PAL-M and PAL-N systems).
- Y/C separate video and S-video signal (SECAM, PAL-M and PAL-N systems).
- Component video signal.

Progressive cannot be operated when "480p". "575p" or "720p" is selected on AV SYSTEM MENU (P35).

# 3 E Store

To store adjustment data, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image Level 1 to 4 and then press SELECT button.

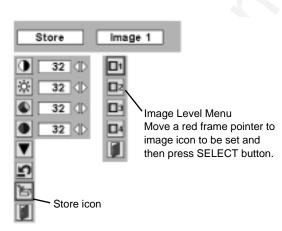
Other icons operates as follows.



Reset all adjustment to previous figure.



Closes IMAGE MENU.



# PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display desirable image size.

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.

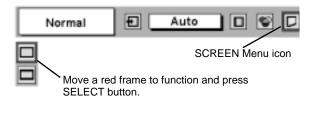
#### Normal

Provides image at a normal video aspect ratio of 4 : 3.



Provides image at a wide screen ratio of 16 : 9.

#### SCREEN MENU



NOTE : SCREEN Menu cannot be operated when "720p", "1035i", "1080i50" or "1080i60" is selected on AV SYSTEM Menu (P35).



# SETTING MENU

- Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red-frame pointer to SETTING icon.
- Press POINT DOWN button to move a red-frame pointer to item that you want to set and then press SELECT button. Setting dialog box appears.

## Canguage

Language used in ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean and Japanese.

# Keystone

When image is distorted vertically, select Keystone. ON-SCREEN MENU disappears and Keystone dialog box is displayed. Correct keystone distortion by pressing POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 22.

### Blue back

When this function is "On," this projector will produce a blue image instead of video noise on screen when any input source is unplugged or turned off.

# Display

This function decides whether to display On-Screen Displays. On ... shows all On-Screen Displays.

- Off .... sets On-Screen Displays disappeared except;
  - ON-SCREEN MENU
  - "Power off?" message

# Logo

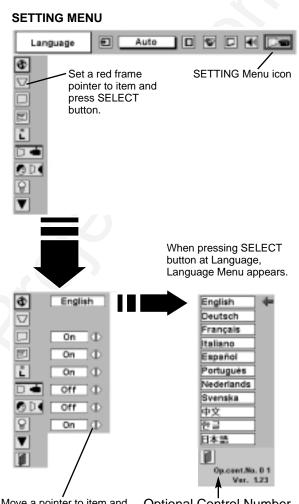
When this function is "On," projector displays our logo when starting up.



When this function is "On," picture is top/bottom and left/right reversed. This function is used to project image from a ceiling mounted projector.

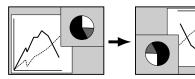


When this function is "On," picture is left/right reversed. This function is used to project image to a rear projection screen.

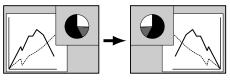


Move a pointer to item and then press POINT LEFT/RIGHT button(s). Optional Control Number Refer to page 11.

#### **Ceiling function**



#### Rear function



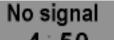
#### Power management

This function turns Projection Lamp off when this projector detects signal interruption and is not used for a certain period in order to reduce power consumption and maintain Lamp-life. (This projector is shipped with this function ON.)

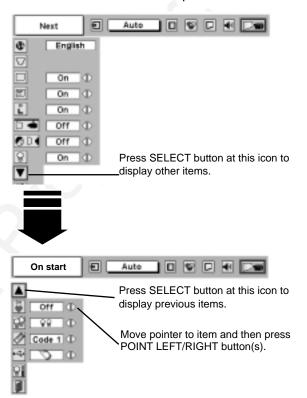
Power Management function operates to turn Projection Lamp off when input signal is interrupted and any button is not pressed over 5 minutes. This function operates as follows;

- 1. When any input signal is interrupted, "No signal" and counting down display appears (for 5 minutes).
- 2. After counting down for 5 minutes, projector lamp and READY indicator are turned off.
- 3. When READY indicator flashing, Projection Lamp can be turned on again (Power Management mode).

In this Power Management mode, Projection Lamp is automatically turned on when input signal connected or projector is operated with any button on Top Control or on Remote Control Unit again.



Time left until Lamp off.



# On start

When this function is "On," projector is automatically turned on just by switching MAIN ON/OFF SWITCH on.

Note; Be sure to turn projector off properly (refer to section "TURNING OFF PROJECTOR" on P21). If projector is turned off in wrong steps, On Start function does not operate properly.

## Lamp Mode

This Projector is equipped with 2 Projection Lamps and a number of using lamps can be switched to 2 lamps or 1 lamp. Using 1 lamp maintain life of Projection Lamps.

To change over Lamp Mode

- 1. Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select SETTING and press SELECT button. Setting dialog box appears.
- 2. Press POINT DOWN button to move a red frame pointer to "Lamp mode". Set "2 lamps mode" or "1 lamp mode" by pressing POINT LEFT/RIGHT button(s). When Lamp Mode is set from "2 lamps mode" to "1 lamp mode" image becomes little darker. When Lamp Mode is set from "1 lamp mode" to "2 lamps mode" image become brighter gradually.

**NOTE** : After changing Lamp Mode, it cannot be switched again for 90 seconds.

# Remote control

This projector has two different remote control codes; factory-set normal code (Code 1) and secondary code (Code 2). This switching function prevents remote control operation mixture (jam) when operating several projectors or video equipment together.

When operating projector in "Code 2," both projector and Remote Control Unit must be switched to "Code 2."

#### To change code of Projector;

Set Remote control in SETTING MENU to "Code 2."

### To change code of Remote Control Unit;

Press both MENU and IMAGE buttons on Remote Control Unit together for over 10 seconds.

After changing code, make sure Remote Control operates properly.

To return to normal code (Code 1), operate both projector and Remote Control in ways above again.

NOTE : When batteries of Remote Control Unit are replaced or ALL-OFF switch is turned to "ALL-OFF," remote transmit code automatically returns to normal code (Code 1).



This Projector is equipped with USB port for interactive operation between a projector and computer. Set mode following steps below.

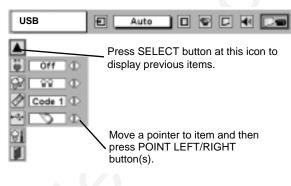
### Wireless Mouse mode

Select " subset in the controlling a computer with Remote Control of this projector.

#### Projector mode

Select " **I** when controlling a projector with computer.

**NOTE:** Before you control a projector by computer, install USB driver (optionally sold parts) and set up computer following instruction in USB driver package. Contact your authorized dealer.



#### Lamp counter reset

Be sure to reset Lamp Counter when Lamp Assembly is replaced. When Lamp Replace Counter is reset, LAMP REPLACE indicator stops lighting.

- 1 Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon.
- Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SELECT button.
- 3 Move arrow to replaced lamp number (Lamp 1 or Lamp 2) and then press SELECT button. Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.

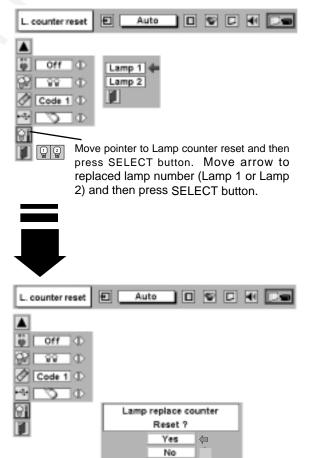
**NOTE:** Be sure to reset correct lamp number otherwise LAMP REPLACE indicator continues lighting.

Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.

Do not reset Lamp Replace Counter except after Projection lamp is replaced.



4



Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.

# APPENDIX

# **OPERATING WIRELESS MOUSE**

Wireless Remote Control Unit is not only able to operate this projector but also usable as a wireless mouse for most Personal Computers. POINT buttons and two CLICK buttons are used for wireless mouse operation. This Wireless Mouse function is available only when PC mouse pointer is displayed on a projected screen. When ON-

SCREEN MENU or any message / dialog box is displayed on screen instead of PC mouse pointer, this Wireless Mouse function cannot be used.

# INSTALLATION

To use Wireless Remote Control Unit as Wireless Mouse for a Personal Computer, installation of mouse driver (not supplied) is required. Make sure that mouse driver is properly installed in your computer. And make sure that mouse port (or USB port) of a Personal Computer is activated.

- Connect mouse port (or USB port) of your computer to Control Port (or USB connector) of this projector with Control Cable (or USB cable). (Refer to page 13, 14 for connection.)
- 2 Turn a projector on first, and then turn on your computer. When computer is switched on first, Wireless Mouse may not work properly.
- Note: When your computer has no mouse port, connect Serial Port of your computer to Control Port of a projector with Control Cable for Serial Port (not supplied).

# **OPERATING WIRELESS MOUSE**

When controlling a PC mouse pointer, operate Wireless Mouse with POINT button, SELECT button, and RIGHT CLICK button on Wireless Remote Control Unit.

### POINT button

Used to move PC mouse pointer. Pointer is moved corresponding with direction you are pressing.

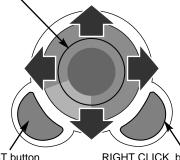
### SELECT (LEFT CLICK) button

This button has same function as left button in a PC mouse.

#### **RIGHT CLICK button**

This button has same function as right button in a PC mouse. This button is not available for controlling this projector.

POINT button (Move pointer)



SELECT button (left button of mouse)

RIGHT CLICK button (right button of mouse)

# MAINTENANCE

# WARNING TEMP. INDICATOR

WARNING TEMP. Indicator flashes red when an internal temperature of a projector exceeds normal temperature. This Indicator stops flashing when temperature of a projector returns to normal. When WARNING TEMP. Indicator continues to flash, check items listed below.

- *I* Ventilation Slots of a projector may be blocked. In such an event, reposition a projector so that Ventilation Slots are not obstructed.
- 2 Air Filter may be clogged with dust particles. Clean Air Filter by following section AIR FILTER CARE AND CLEANING on next page.
- **3** If WARNING TEMP. Indicator remains on after performing above checks, Cooling Fans or Internal Circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

# AIR FILTER CARE AND CLEANING

Air Filter prevents dust from accumulating on a surface of Projection Lens and Projection Mirror. Should Air Filter become clogged with dust particles, it will reduce Cooling Fans' effectiveness and may result in internal heat build up and adversely affect life of projector.

Clean Air Filter following steps below:

- *I* Turn power off, and disconnect AC power cord from an AC outlet.
- 2 Pull out 2 Air Filters and Air filter Covers from a projector.
- 3 Clean each parts (Air Filter and Air filter Cover) with brush or wash out dust and particles. Be sure to dry them out.
- **4** Replace Air Filter and Air Filter Cover properly. Make sure that they are fully inserted.

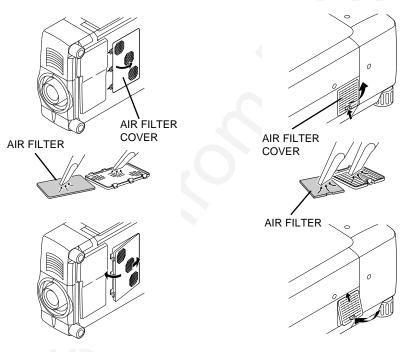
BOTTOM OF PROJECTOR



### **CAUTION**

SIDE OF PROJECTOR

Do not operate a projector with Air Filter removed. Dust may accumulate on LCD Panel and Mirror degrading picture quality. Do not put small parts into Air Intake Vents. It may result in malfunction of a projector.



#### RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating a projector. Usage in these environments may cause poor image quality.

When using under dusty or smoky conditions, dust may accumulate on liquid crystal panel, lens, or optical elements inside it. This condition may degrade quality of projected image.

When above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.

# **CLEANING PROJECTION LENS**

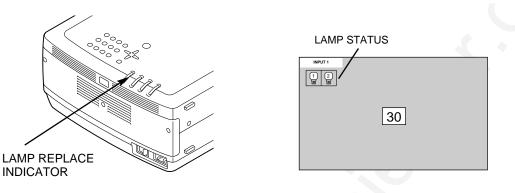
Follow these steps to clean projection lens:

- **1** Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch lens.
- 2 Lightly wipe cleaning cloth over lens.
- 3 When a projector is not in use, replace lens cover.

Ξ

# LAMP MANAGEMENT

This Projector is equipped with 2 Projection Lamps to ensure brighter image and those lamps are controlled by Lamp Management Function. Lamp Management Function detects status of two lamps and shows status on screen or on LAMP REPLACE indicator. This function also automatically controls Lamp Mode when any of lamps is out for end of life or malfunctions.

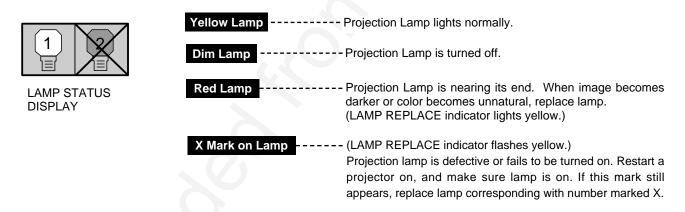


### Lamp Replace Indicator

This LAMP REPLACE indicator lights yellow when any of Projection Lamps is nearing its end, and flashes when any of them becomes out. Check number of lamp on Lamp Status Display and replace lamp.

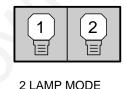
### Lamp Status Display

Lamp Status Display appears on screen when power switch is on or changed input position (input 1, input 2 or input 3). This shows status of each lamp as; ON, OFF, NEAR END, or OUT. Refer to following for each status.

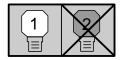


### Lamp Mode Changeover

Lamp Management Function automatically changes combination of lighting lamp (Lamp Mode) by detecting status of lamp. When any of 2 lamps becomes out, Lamp Mode is changed over from 2 lamps to 1 lamp. Lamp Mode can be switched to 2 lamps or 1 lamp manually. Refer to SETTING section on page 39, 40.







1 LAMP MODE (Example)

# LAMP REPLACEMENT



CAUTION

For continued safety, replace with a lamp assembly of same type.

Allow a projector to cool for at least 45 minutes before you open Lamp Cover. Inside of a projector can become very hot.

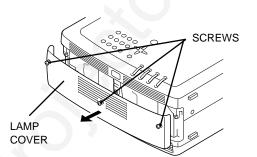
Follow these steps to replace lamp assembly.

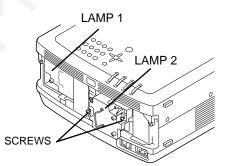
- $m{1}$  Check number of lamp to be replaced on Lamp Status Display.
- 2 Turn off a projector and disconnect AC Power Cord. Allow a projector to cool for at least 45 minutes.
- **3** Loosen 3 screws on Lamp Cover and remove Lamp Cover. (See right figure.)
- 4 Loosen 2 screws and pull out Lamp Assembly to be replaced by grasping handle.
- 5 Replace Lamp Assembly with a new one and tighten 2 screws. Make sure that Lamp Assembly is set properly
- **6** Replace Lamp Cover and tighten 3 screws.
- 7 Connect AC Power Cord to a projector and turn projector on.
- 8 Reset Lamp Replacement Counter. (Refer to section "Lamp Counter Reset" on page 41.)
- **NOTE :** Do not reset LAMP REPLACEMENT COUNTER when lamp is not replaced.



### <u>CAUTION</u>

Do not drop a lamp assembly or touch a glass bulb! Glass can shatter and may cause injury.





Make sure which number of lamp needs to be replaced on Lamp Status Display. Figure shows case of replacing LAMP 2.

# CAUTION : DO NOT OPERATE A PROJECTOR WHILE ANY OF LAMPS IS REMOVED. IT MAY RESULT IN MALFUNCTIONS, FIRE HAZARD, OR OTHER ACCIDENTS.

# NOTES ON LAMP REPLACEMENT

To maintain quality of picture (better balance of color and brightness in entire screen), we recommend replacing all 2 lamps at a time.

# ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through your dealer. When ordering Projection Lamp, give following information to dealer.

- Model No. of your projector : Pro AV 9500
- Replacement Lamp Type No. : Proxima Lamp No.; LAMP-033

# TROUBLESHOOTING

Before calling your dealer or service center for assistance, check matters below once again.

- 1. Make sure you have connected a projector to your computer or video equipment as described in section "CONNECTING PROJECTOR" on pages 12 ~ 15.
- 2. Check cable connection. Verify that all computer, video and power cord are properly connected.
- 3. Verify that all power is switched on.
- 4. If a projector still does not produce an image, re-start your computer.
- 5. If an image still does not appear, unplug a projector from your computer and check your computer monitor's display. Problem may be with your graphics controller rather than with a projector. (When you reconnect a projector, be sure to turn a computer and monitor off before you power up a projector. Power equipment back on in order of : Projector and computer.)
- 6. If problem still exists, check following chart.

Problem:	Try these Solutions					
No power.	<ul> <li>Plug a projector into your AC outlet.</li> <li>Turn MAIN ON/OFF switch to ON.</li> <li>Press POWER ON/OFF switch to ON.</li> <li>Make sure READY Indicator lights.</li> <li>Wait 90 seconds after a projector is turned OFF when turning a projector back on.</li> <li>NOTE : After pressing Power ON-OFF button to OFF, make sure a projector works as follows: <ol> <li>LAMP indicator lights bright and READY indicator turns off.</li> <li>After 90 seconds, READY indicator lights green again and a projector may be turned on by pressing Power ON-OFF button.</li> </ol> </li> </ul>					
	<ul> <li>Check WARNING TEMP. indicator. If indicator flashes red, a projector cannot be turned on.</li> <li>(See "TURNING ON/OFF PROJECTOR" section on page 21.)</li> <li>Check Projection Lamp. (Refer to page 45.)</li> </ul>					
Image is out of focus.	<ul> <li>Adjust focus of a projector.</li> <li>Check Projection Lens to see if it needs cleaning.</li> <li>NOTE : Moving a projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave a projector OFF and wait until condensation disappears.</li> </ul>					
Picture is Left/Right reversed.	Check Ceiling / Rear feature. (See "SETTING" section on page 39.)					
Picture is Top/Bottom reversed.	Check Ceiling feature. (See "SETTING" section on page 39.)					
Some displays are not seen during Operation.	Check Display feature.(See "SETTING" section on page 39.)					
No image.	<ul> <li>Check connection between your computer or video equipment and a projector.</li> <li>When turning a projector on, it takes about 30 seconds to display an image.</li> <li>Check system that you select is corresponding with your computer or video equipment.</li> <li>Make sure temperature is not out of Operating Temperature (5°C ~ 35°C).</li> </ul>					
No sound.	<ul> <li>Check audio cable connection from audio input source.</li> <li>Adjust audio source.</li> <li>Press VOLUME (+) button.</li> <li>Press MUTE button.</li> </ul>					

Problem:	Try these Solutions
Remote Control Unit does not work.	<ul> <li>Check batteries.</li> <li>Check ALL-OFF switch on Remote Control Unit is set to "ON.".</li> <li>Make sure nothing is between Infrared Remote Receiver and Remote Control Unit.</li> <li>Make sure you are not too far from a projector when using Remote Control Unit. Maximum operating range is 16.4' (5m).</li> <li>Check transmitted signal mode from Remote Control Unit. (See "SETTING" section on page 40.)</li> </ul>
Wireless Mouse function does not work.	<ul> <li>Check cable connection between a projector and your computer.</li> <li>Check mouse setting on your computer.</li> <li>Turn a projector on before turning on a computer.</li> </ul>

## Where to Get Help :

If you still need help after checking the table above, you should call your dealer's technical support line and explain your problem.

If your dealer cannot solve your problem, please call InFocus Corporation's Technical Support directly at **1-800-799-9911**. Support is free between 6 a.m. and 6 p.m. PST, Monday through Friday. Support is available in North America after hours and weekends for a fee at **1-888-592-6800**. Or, send us an e-mail at **techsupport@infocus.com**.

In Europe, call InFocus in The Netherlands at (31) 35-6474010.

In Asia, call InFocus in Singapore at (65) 353-9449. Or, send us an e-mail at techsupport@infocus.com.

#### Our World Wide Web address is http://www.infocus.com.

In the event that your unit is determined to be defective, you'll be issued a Return Authorization Number. After you've received this number, send the unit, a copy of your sales receipt, and a description of the problem, freight prepaid, to Proxima. Clearly note the Return Authorization Number on the outside of the shipping box.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

CE

The CE Mark is a Directive conformity mark of the European Community (EC).

# **TECHNICAL SPECIFICATIONS**

Brojactor Type	Multi-media Projector					
Projector Type						
Dimensions (W x H x D)	17.3" x 9.1" x 23.8" (439 mm x 230 mm x 605.6 mm)					
Net Weight	45.2 lbs (20.5 kg)					
LCD Panel System	1.8" TFT Active Matrix type, 3 panels					
Panel Resolution	1024 x 768 dots					
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)					
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N					
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, 1080i-50 and 1080i-60					
Motorized Lens Shift	Up and Down					
Scanning Frequency	H-sync. 15 ~ 120 KHz, V-sync. 50 ~ 120 Hz					
Horizontal Resolution	800 TV lines					
Projection Lamp	200 watt type x 2					
Input 1 Jacks	DVI-I Terminal (Digital/Analog), RCA Type (Audio R and L) and DIN 8-pin (Control port)					
Input 2 Jacks	BNC Type x 5 (R/Pr, G/Y, B/Pb, H/HV and V), RCA Type (Audio R and L) and DIN 8-pin (Control port)					
Input 3 Jacks	BNC Type x 2 (VIDEO/Y, C), RCA Type (Audio R and L) and DIN 4-pin (S-Video)					
Other Jacks	Serial port in (DB 9), Serial port out (DB 9), USB port, Audio Monitor out (RCA Type R and L) and Wired Remote Jack					
Built-in Speakers	INT. SP. Stereo (R and L), 3 watt RMS (T.H.D. 10%)					
Feet Adjustment	0° to 6.9°					
Voltage and	AC 100 ~ 120 V (7.8 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)					
Power Consumption	AC 200 ~ 240 V (3.3 A Max. Ampere), 50 / 60 Hz (Continental Europe)					
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)					
Storage Temperature	14 °F ~ 140 °F (-10 °C ~ 60 °C)					
Remote Control Transmitter	Power Source:AA, UM3 or R06 Type x 2Operating Range:16.4' (5m) / ±30°Dimensions:2.2" x 1.3" x 7.6" (55mm x 34mm x 192mm)Net Weight:0.36 lbs (165 g) (including batteries)Laser Pointer:Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)					
Accessories	User's Guide AC Power Cord Wireless/Wired Remote Control Transmitter and Batteries Remote Control Cable VGA Cable and DVI Cable MAC/VGA Adapter and DVI/VGA Adapter 3 Types Control Cable (For PS/2, Serial and ADB port) 3 Types Light-Block Sheet (For option lens) Lens Mounting Adapter Protective Dust Cover					

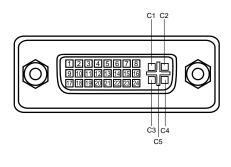
• Specifications are subject to change without notice.

# **CONFIGURATIONS OF TERMINALS**

### **DVI-I TERMINAL (DIGITAL/ANALOG)**

This terminal accepts only Digital (TMDS) or Analog (RGB) output signal. Connect display output terminal of computer to this terminal with DVI cable (supplied).

### Pin Configuration



C1	Analog Red Input
C2	Analog Green Input
C3	Analog Blue Input
C4	Analog Horiz. sync
C5	Analog Ground (R/G/B)

1	T.M.D.S. Data2-	9	T.M.D.S. Data1–	17	T.M.D.S. Data0-	
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+	
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield	
4	No Connect	12	No Connect	20	No Connect	
5	No Connect	13	No Connect	21	No Connect	
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield	
7	DDC Data	15	Ground (for +5V)		T.M.D.S. Clock+	
8	Analog Vert. sync	16	6 Hot Plug Detect 24 T.M.D.S. Clo		T.M.D.S. Clock-	

### CONTROL PORT CONNECTOR

#### **Terminal : Mini DIN 8-PIN**

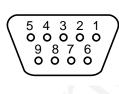
Connect control port (PS/2, Serial or ADB port) on your computer to this terminal with Control Cable (supplied).

Pin Configuration		PS/2	Serial	ADB
	1		RXD	
	2	CLK		ADB
	3	DATA		
	4	GND	GND	GND
	5		RTS	
	6		TXD	
	7	GND	GND	
	8		GND	GND

#### SERIAL PORT IN/OUT TERMINAL

#### Pin Configuration

Connect serial port output terminal of computer to this terminal with Serial Cable (not supplied).

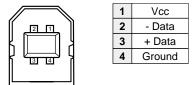


1	
2	RxD
3	TxD
4	
5	Ground
6	
7	
8	
9	

### **USB PORT TERMINAL**

#### Pin Configuration

Connect USB port output terminal of computer or peripheral equipment to this terminal with USB port Cable (not supplied).



## Limited Warranty

InFocus Corporation ("InFocus") warrants that the Projector ("Product") purchased from InFocus, an InFocus distributor, or an InFocus reseller will conform to the manufacturer's specifications and be free from defects in material or workmanship for the Warranty period provided below. InFocus does not warrant that the Product will meet the specific requirements of the end-user customer.

If the Product, which is the subject of this Limited Warranty, is defective in material or workmanship during the warranty period, InFocus, <u>at its option</u>, will REPAIR or REPLACE the Product.

All exchanged parts and products replaced under this Warranty will become property of InFocus. <u>InFocus' sole obligation</u> is to supply (or pay for) all labor necessary to repair the Product found to be defective within the Warranty period and to repair or replace defective parts with new parts or, <u>at the option of InFocus</u>, service-able used parts that are equivalent or superior to new parts performance.

**Limited Warranty Alternatives:** Subject to the Limitations, Exclusions and Disclaimers, InFocus Warrants as follows:

• **2 Year Parts and Labor Product Warranty** - From the date of purchase, InFocus warrants that the Product will conform to the manufacturers' specifications and be free from defects in material or workmanship for a period of two (2) years.

• <u>I Year Parts Only Accessory Warranty</u> - From the date of purchase, InFocus warrants that the customer replaceable and accessory products will conform to the manufacturers' specifications and be free from defects in material or workmanship for a period of one (1) year.

• <u>90 Day/500 Hour Replacement Lamp Warranty</u> - Lamp Products purchased in projectors or separately as replacements after the original projector purchases is Ninety (90) days or 500 hours, whichever comes first. During the Warranty period for the Product, InFocus warrants that Replacement lamps, which are purchased at the time of projector purchase, will have a 90-day or 500 hour warranty, whichever comes first, from the date the spare lamp is put into use.

### WARRANTY LIMITATION AND EXCLUSION

THIS WARRANTY SETS FORTH INFOCUS' MAXIMUM LIABILITY FOR ITS PRODUCT. THIS WAR-RANTY EXTENDS ONLY TO PRODUCTS PURCHASED FROM INFOCUS OR AN INFOCUS AUTHORIZED RESELLER. InFocus shall have no further obligation under the foregoing Limited Warranty if the Product has been damaged due to abuse, misuse, neglect, smoke exposure (cigarette or otherwise), accident, unusual physical or electrical stress, unauthorized modifications (including use of an unauthorized mount), tampering, alterations, or service other than by InFocus or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product was intended.

This Warranty excludes Product or accessory cleaning, repair, or replacement of plastics due to cosmetic damage and damage as a result of normal wear. Product repair outside of the terms of the Limited Warranty will be on a time and materials basis. Prolonged Product "demonstration" causes unusual Product wear and is not considered normal use under the terms of this Limited Warranty.

The Accessory Warranty covers the accessory item only and excludes normal wear. The Lamp Product Warranty excludes expected lamp degradation.

Remanufactured Products and Software Products are exempt from the foregoing Limited Warranty. Please refer to the appropriate Remanufactured Product Limited Warranty or Software Product Limited Warranty for applicable Warranty information.

### DISCLAIMER OF UNSTATED WARRANTIES

THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED. <u>THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF</u> AND THE FOREGOING WARRANTY SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY WRITTEN INSTRUMENT SIGNED BY INFOCUS. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, SO SUCH LIMITATIONS MAY NOT APPLY TO YOU.

### Limited Warranty Period

The Limited Warranty period commences on the date of purchase by the end-user customer for both the 2 year Product Warranty and the 1 year Accessory Warranty. These Limited Warranty provisions shall apply only to the end-user purchaser (first person or entity that purchased a new Product for personal or business use and not for the purpose of distribution or resale).

### To Be Eligible For Limited Warranty Coverage

Any person exercising a claim under this Limited Warranty must establish to the satisfaction of InFocus both the date of purchase and that the Product was purchased new. The sales receipt or invoice, showing the date of purchase of the Product or Accessory is the proof of the date of purchase.

### To Obtain Warranty Service

During the Limited Warranty period, to exercise this Limited Warranty, the purchaser must first contact 1) InFocus, 2) a service facility authorized by InFocus or 3) the place of original purchase.

InFocus Customer Service - 1-800-799-9911 or techsupport@infocus.com

For Warranty service, the purchaser will be advised to return or deliver the defective Product freight and all fees prepaid, to an InFocus Service Center or to a service facility authorized by InFocus. When returning Product to InFocus, a Return Material Authorization Number (RMA #) is required and must be clearly displayed on the outside of the shipping carton or a similar package affording an equal degree of protection. InFocus or the service facility authorized by InFocus will return the repaired/replaced Product freight prepaid to the purchaser.

Products returned for Warranty service must be accompanied by a written letter that: (i) explains the problem; (ii) provides proof of date of purchase; (iii) provides the dealer's name; and (iv) provides the model and serial number of the Product. Upon request of InFocus Corporation or an authorized repair center for InFocus, proof of legal importation must accompany the warranty repair Product, otherwise the Product must be returned to the place of original purchase, to the manufacturer (Purchaser must bear all tax, duty and freight), or the Purchaser must bear charges for the warranty repair.

No repair or replacement of Product or part thereof shall extend the Limited Warranty period as to the entire Product. Warranty on the repair part and workmanship shall only be effective for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product Limited Warranty whichever is greater.

### LIMITATION OF LIABILITY

IT IS UNDERSTOOD AND AGREED THAT INFOCUS' LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER AND UNDER NO CIR-CUMSTANCES SHALL INFOCUS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSE-QUENTIAL DAMAGES OR LOST PROFITS, LOST REVENUES OR LOST SAVINGS. THE PRICE STATED FOR THE PRODUCTS IS A CONSIDERATION IN LIMITING INFOCUS' LIABILITY.

**Limitation on Bringing Action** - No action, regardless of form, arising out of the agreement to purchase the product may be brought by purchaser more than one year after the cause of action has accrued.

**<u>Governing Law</u>** - Any action, regardless of form, arising out of the agreement to purchase the product is governed by Oregon law.

**<u>Mandatory Arbitration</u>** - Any action, regardless of form, arising out of the agreement to purchase the product is subject to mandatory arbitration.

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, DEPENDING ON JURISDICTION.

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### Part No. 010-0346-00

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