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PLUS DATA PROJECTOR U4 - 232

User's Manual

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IMPORTANT

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- * VGA and XGA are trademarks or registered trademarks of International Business Machines Corporation (U.S.A.).
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IMPORTANT SAFETY INFORMATION

Precautions

Please read this manual carefully before using your PLUS Data Projector and keep the manual handy for future reference.

TO PREVENT SHOCK, DO NOT OPEN THE CABINET. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PLUS SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above cautions are given on the bottom of the product.

WARNING

TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S GROUNDED PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THREE PRONGS CAN BE FULLY INSERTED. DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COM-PONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED PLUS SERVICE PERSONNEL.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

RF Interference

WARNING

The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by PLUS Vision in this manual. Failure to comply with this government regulation could void your right to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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.

DOC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regula-

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g: Lamp in This Product Contains Mercury. Dispose of Lamp According to Local, State or Federal Law.

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Important Safeguards

These safety instructions are to ensure the long life of the unit and to prevent fire and shock. Please read them carefully and heed all warnings.

Installation

- For best results, use the unit in a darkened room.
- Place the unit on a flat, level surface in a dry area away from dust and moisture.
- Do not place the unit in direct sunlight, near heaters or heat radiating appliances.
- Exposure to direct sunlight, smoke or steam can harm internal components.
- Handle the unit carefully. Dropping or jarring can damage internal components.
- Do not place heavy objects on top of the unit.

Power Supply

- The unit is designed to operate on a power supply of 100 240 V 50/60 Hz AC. Ensure that your power supply fits these requirements before attempting to use the unit.
- Handle the power cable carefully and avoid excessive bending. A damaged cord can cause electric shock or fire.
- Disconnect the power cable (mains lead) from the power outlet after using the unit. Before disconnecting the power cable, make sure that the STANDBY indicator lights in amber (not blinking or in green).

Cleaning

- · Disconnect the power cable (mains lead) from the unit.
- Clean the cabinet of the unit periodically with a damp cloth. If heavily soiled, use a mild detergent. Never use strong detergents or solvents such as alcohol or thinner.
- Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens.
- Clean the ventilation slots and speaker grills on the unit periodically using a vacuum cleaner. If accumulated dust blocks the ventilation slots, the unit will overheat, which may cause the unit to malfunction. Use a soft brush attachment when using the vacuum cleaner. Do not use a hard attachment, such as a crevice tool, to prevent the damage to the unit.

Lamp Replacement

• Be sure to replace the lamp when the Status indicator comes on. If you continue to use the lamp after 1500 hours of usage, the lamp will turn off.

Fire and Shock Precautions

- Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the buildup of heat inside the unit. Allow at least 10 cm (3 inches) of space between the unit and walls.
- Prevent foreign objects such as paper clips and bits of paper from falling into the unit. Do not attempt to retrieve any objects that fell into the unit. Do not insert any metal objects such as a wire or screwdriver into the unit. If something should fall into the unit, immediately disconnect the power cable from the unit and have the object removed by a qualified PLUS service person.
- Do not place any liquids on top of the unit.

arrying around

centrying the unit around, please use the carrying case that comes with it and, to protect the lens from scratches, always shut the sliding lens cap. Also, do not subject the unit to strong mechanical shock.

(800) 281-8860

CAUTION - HOT!

The area around the exhaust vents is not during and immediately after image projection. **ACESSORIES** To avoid burns, keep your hands away from this area. Wait until the exhaust vents area cools off before touching it.

Do not look into the lens while the unit is on. Serious damage to your eyes could result.

Major Features

Lightweight (at about 1.5 kg/3.3 lb) high-intensity mobile projector

The synergy of the DLP™ (Digital Light Processing) display system and our own optical design serve to improve the optical utilization efficiency. The three primary colors (RGB) required in color expression are reproduced with one DMD (Digital Micromirror Device of high precision). These factors have enabled a design that offers both high intensity and small size/ lightweight features.

Sharp, clear picture

The DLP™ display system affords RGB color fidelity and inconspicuous gaps between the individual dots, thereby permitting the display of small characters and diagrams with distinct clarity.

High contrast ration of 2000:1

Use of a new generation of DMD devices has given birth to an amazing 2000:1 high contrast ratio. By widening the difference of brightness between black and white, you can see a degree of sharpness that is greater than just the brightness based on specifications.

Great moving image playback capabilities using the same principles as DLP Cinema technology

Plus DLP type projectors have the same makings as the DLP Cinema technology used in movie theaters. Because of their extremely fast response, even images with much movement – sports, movies – play smoothly without blurring.

Security lock function

The lock can be set so that a password must be input when the projector is started up. Without the correct password, no operations other than turning the power on and off can be performed. This function effectively protects the projector from unauthorized use.

Powerful functions for presentations

A wide variety of easy-to-set functions have been built into the projector, from a digital keystone correction function (used when making settings) that corrects picture distortion, to an auto adjustment function that automatically identifies the PC signal.

There is also a built-in "Presentation Timer" function for further presentation convenience.

Beautiful reproduction of high-quality images from DVD

Faithful reproduction of color tones gives rise to the display of natural images. High-quality images such as those from DVD and digital high-definition television broadcasts bring out the display capabilities that are an essential strength of the DLP[™] display system projector.

Digital/analog RGB input

by using a DVI cable to connect the projector with a personal computer equipped with a DVI connector. This will allow fully digital pictures to be enjoyed.

Econo-mode switch function for the lamp output

Using the lamp Econo-mode will extend the life of the lamp and lower the power consumption. By switching the lamp mode to suit your operating environment, you will save on lamp cost as well as contribute to energy conservation and ecology.



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	THE TRUSTED SOURCE FOR PROJECTOR LAMPS	*

Checking the Supplied Accessories

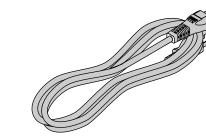
Remove the main unit and the accessories from the box and check that the following items are included.

Remote control (includes one button battery) [1]

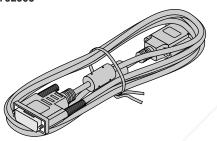
This controls the projector. Please remove the transportation insulation sheet at time of purchase. (See Page E-11.)

Power cable (1.8 m / 5.9 feet) [1]

This power cable supplies power to the unit. See Page E-21 about connections.



DVI / Mini D-sub 15-pin conversion cable (2 m / 6.6 feet) [1] This is used in making connections with a personal computer. See Page E-16 about connections. No. 776702000



S-Video cable (Mini DIN 4-pin plug, 2 m / 6.6 feet) [1] This cable is used in the connection of video equipment that has an S-video connector. Connections are described on Page E-18.

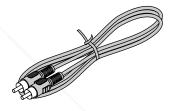
No. 771709000



Video cable (RCA pin plug, 2 m / 6.6 feet) [1]

This cable is used in the connection of video equipment that has a video connector. Connections are described on Page E-18.

No. 771703000



Audio conversion cable (Mini plug / RCA pin plug, 15 cm / 0.5 feet) [1]

This cable is used with equipment whose audio connector is of the phono pin type. Connections are described on Page E-20.

No. 770704000



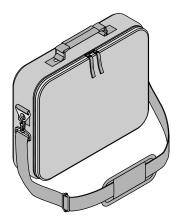
dio caste (Mini plug, 2 m / **6.6 feet) [1]** is cable is used with equipment that has phono type audio jacks. Connections are described on Page E-20.



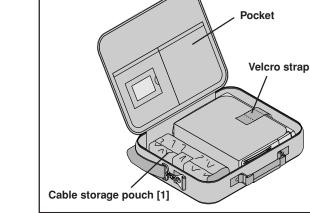
Carrying case (for projector and accessories) [1]

This is a case designed for storing the projector and its accessories.

Use this carrying case when storing or moving the projector.



User's Manual (CD-ROM Edition) [1] User's Manual (Simplified Edition) [1]



HOW TO PUT THE PROJECTOR INTO THE CARRYING CASE

Close the lens shutter or lens cap before putting the pro-

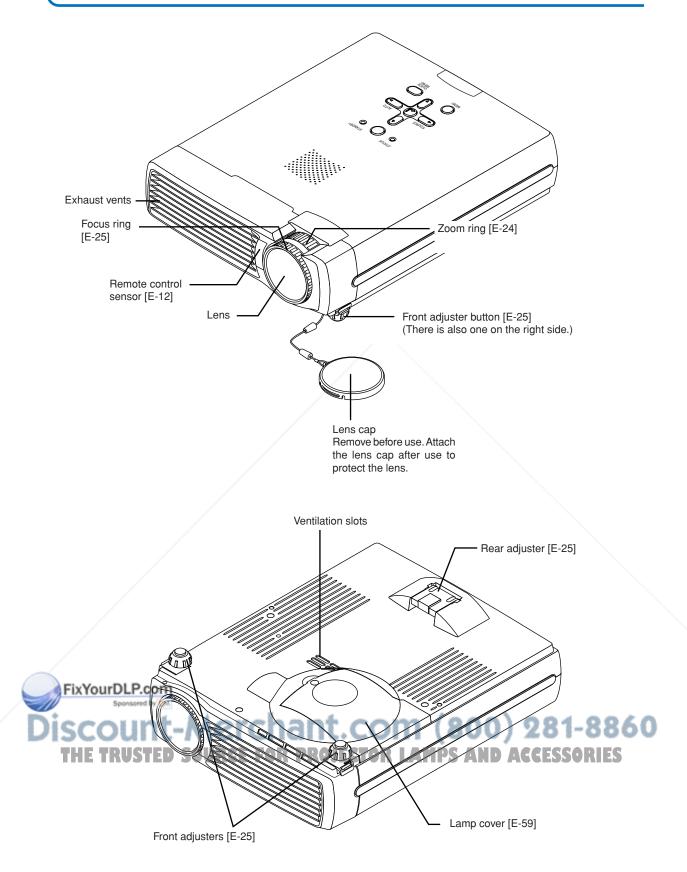
jector in its case, then fasten the projector in place with the

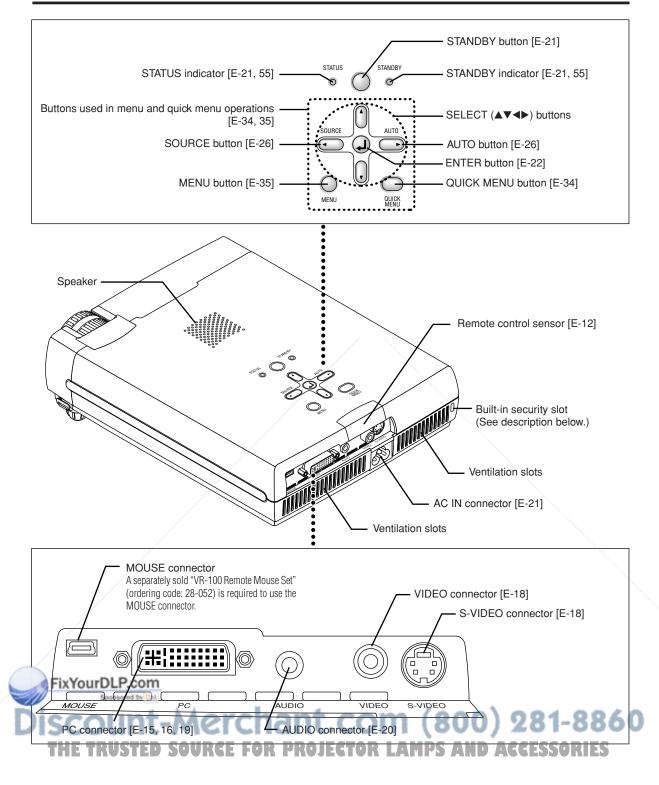
Velcro belt. Place the accessories in the storage pocket.

"WARNING"

Handling the cables supplied with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

Names of the Main Unit Parts

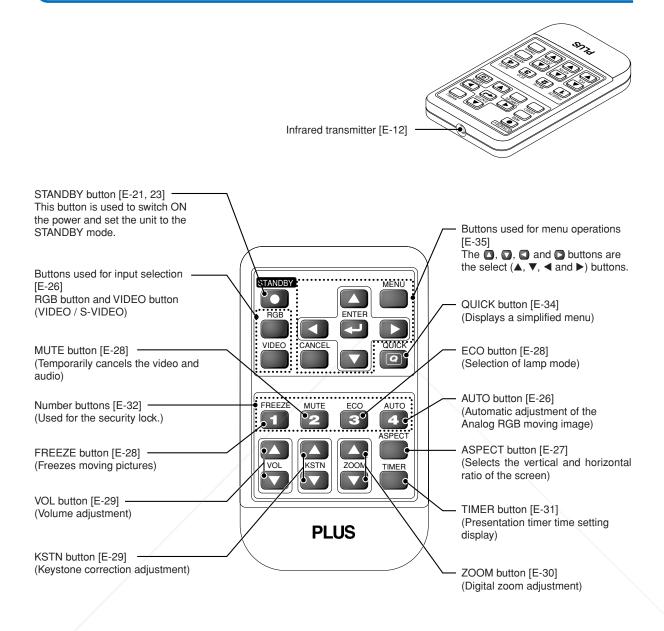




Built-in Security Slot

This security slot supports the MicroSaver Security System manufactured by Kensington Microware Inc.

Names of the Remote Control Parts



Note

If a button on the remote control unit is held in continuously for approximately 30 seconds, signal transfer will be suspended. To resume ansferring signals, press the button again.

Precautions

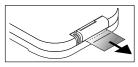
Handling of the Remote Control

- Do not drop the remote control or handle it inappropriately. Do not expose the remote control to water or other liquids. Should the remote control become wet, wipe it dry immediately.
- Try to avoid use in hot and/or humid locations.
- Please keep button battery out of the reach of children. If a battery is swallowed, promptly obtain the medical care of a doctor.
- Remove the battery from the remote control when it is not going to be used for a long period.
- Some operations (such as menu operations) are available only through the use of the remote control and attention should be given to its careful handling.

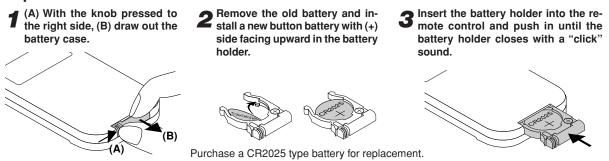
Button Battery Replacement

Using the remote control for the first time

The battery compartment is fitted with a transportation insulation sheet at the time of shipping. Pull out the sheet and remove it. The remote control is now ready for use.



Replacement Method



CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type (CR2025) recommended by the manufacturer. Dispose of used batteries according to your local regulations.

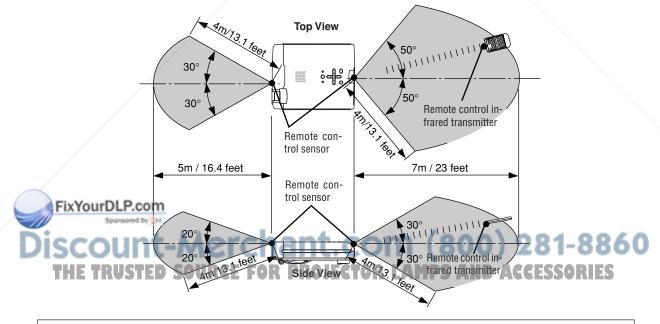
CAUTION

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Remote Control Range

Point the infrared transmitter of the remote control toward the remote control sensor located at the front or rear of the main unit and operate.

Reception of the remote control signal should generally be possible within the range illustrated below.



Note

* Exposure of the main unit's remote control sensor or the remote control infrared transmitter to bright light or the obstruction of the signal by an obstacle located in the pathway may prevent operation.

* The remote control will not function when the battery is exhausted.

The Procedure Up to Projecting to the Screen

Perform setup adjustments in the following order.

1 Position the projector

Determine the locations to set up the screen and the projector. See "Placement Guide" on Page E-14.

2 Connect the video equipment and personal computer Connect your equipment to the projector.

When making connections with the personal computer's DVI connector or RGB connector, see "Connections with Personal Computers" on Page E-15.

When making connections with the video equipment's video connector or an S-video connector, see "Connections with Composite Signals" on Page E-18.

When making connections with the video equipment's YCbCr connector or YPbPr connector, see "Connections with Component Signals" on Page E-19.

When playing the audio through the built-in speaker of the projector, see "Connections with Audio Connectors" on Page E-20.

3 Opening the lens shutter or lens cap

Connecting the power cable and switching on the power See "Operating" on Page E-21.

See "Finishing" on Page E-23.

When selecting the language of menu displays, etc.

(Only when the power is first switched on following purchase) See "When [Menu Language Select] Is Displayed Upon Switching On the Power" on Page E-22.

Switching on the power of the personal computer and video equipment

Properly adjust the projection image to the screen See "Adjustment of the Projection Screen" on Page E-24.

Selecting input equipment

See "Input Selection" on Page E-26.

Adjust the screen or video image

Adjust the image to the optimum condition as required. See the Table of Contents for the adjustment items.

bout DUP projectors

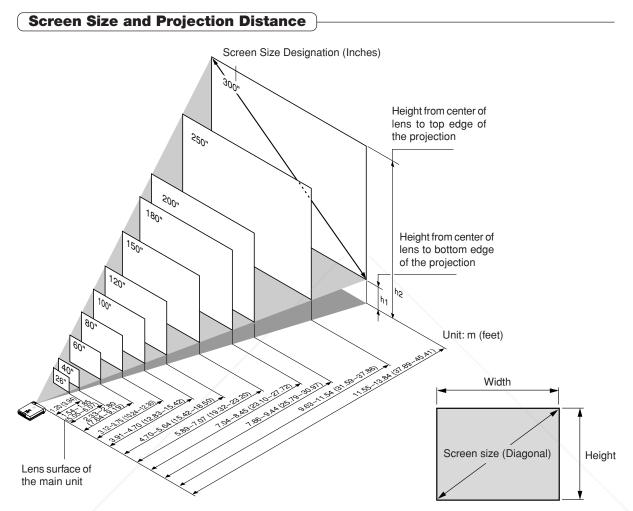
Inough careful attention is paid to providing optimum quality, please note that with DLP type projectors, in rare cases there may be black spots or bright spots among the picture elements.

Note: HE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

- * Please purchase a screen.
- * A DVI-D cable (order code 28-697), which is available separately, is required for connections with the DVI connector of the personal computer.
- * A component cable (order code 28-690), which is available separately, is required to connect a DVD player or other equipment with YCbCr connectors.
- * A component cable (order code 28-690), which is available separately, is required to connect high definition (HD) video equipment or other equipment with YPbPr connectors.

Placement Guide

- Use this information as a guide to find out about the screen size when the projector is placed at a certain location, or to find out the approximate size of a screen that will be required.
- The projection distance over which focussing is adjustable is 1.20 m (3.9 feet) to 13.84 m (45.41 feet). The projector should be placed within this range.



[Screen Size	Screen Size V	Vidth x Height	Projectior	Distance	Heig	ht h1	Heig	ht h2	
	Designation (Inches)	(m)	(feet)	(m)	(feet)	(m)	(feet)	(m)	(feet)	
				Wide – Tele	Wide – Tele					
	26"	0.53 imes~0.40	1.74 imes 1.31	— - 1.20	— - 3.94	0.47	1.54	0.07	0.23	
	40"	0.81 imes 0.61	2.66 imes 2.00	1.54 - 1.85	5.05 - 6.07	0.72	2.36	0.11	0.36	
	FixYourD	LP260n0.91	4.00 imes 2.99	2.33 - 2.80	7.64 - 9.19	1.07	3.51	0.16	0.52	
9	80" 🕯	1.63 × 1.22	5.35 imes 4.00	3.12 - 3.75	10.24 -12.30	1.43	4.69	0.21	0.69	
	100"	2.03 × 1.52	6.66 × 4.99	3.91 - 4.70	12.83 -15.42	1.79	5.87	0.26	0.85	281-8860
	120"	2.44 × 1.83	8.00×6.00	4.70 - 5.64	15.42 -18.50	2.14	7.02	0.31	1.02	201-0000
	150"	3.05 × 2.29	10.00 × 7.51	5.89 - 7.07	19.32 - 23.20	2.68	8.79	0.39	1.28	CESSORIES
	180"	3.66×2.74	12.00×8.99	7.04 – 8.45	23.10 -27.72	3.21	10.53	0.47	1.54	
	200"	4.06 imes 3.05	13.32×10.00	7.86 - 9.44	25.79 -30.97	3.57	11.71	0.52	1.71	
	250"	5.08 imes 3.81	16.67×12.50	9.63 -11.54	31.59 -37.86	4.51	14.80	0.67	2.20	
	300"	6.10 × 4.57	20.00×15.00	11.55 -13.84	37.89 -45.41	5.42	17.78	0.81	2.66	

* There is a tolerance of ±5% due to design values.

* This table uses the lens apex and lens center as references and requires that the projector be in a horizontal condition (with front and rear adjusters fully withdrawn).

Connecting Personal Computers and Video Equipment

Connecting this unit with a personal computer permits presentation data to be projected as a large screen display at conferences, lectures, and on other occasions. Furthermore, connecting this unit to a DVD player or other video equipment source in combination with an audio/video amplifier and speaker system will allow you to enjoy convincing home theater.

Connections with Personal Computer

Please check the following before making connections with the personal computer.

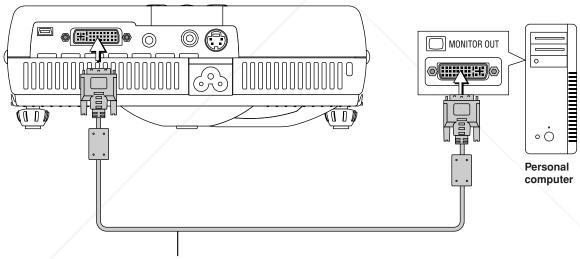
• A suitable resolution for the U4-232 is 1024 \times 768 dots (XGA) and the maximum displayable resolution is 1280 \times 1024 dots (S-XGA).

Make changes to a displayable resolution at the personal computer side. Please check with "Table of Supported Frequency" on Page E-62.

• The setting method for the personal computer will differ depending on the specific model. Please read the personal computer instruction manual or the on-line help information, or contact the manufacturer of your personal computer.

Personal Computers with a DVI Connector

- Make the connection with a DVI-D cable and the PC connector of the projector. When connecting, arrange the connectors in the proper orientation and plug in. Turn the screw knobs and fasten to the connector of the main unit.
- The projector has been set to "Auto" at the factory; however, if it does not project, please change the input setting to "Digital" using the menu sequence of [Setup] → [Input Format] → [PC].
 See "Input Format" on Page E-50.



DVI-D cable (Available as an option. Order code: 28-697)



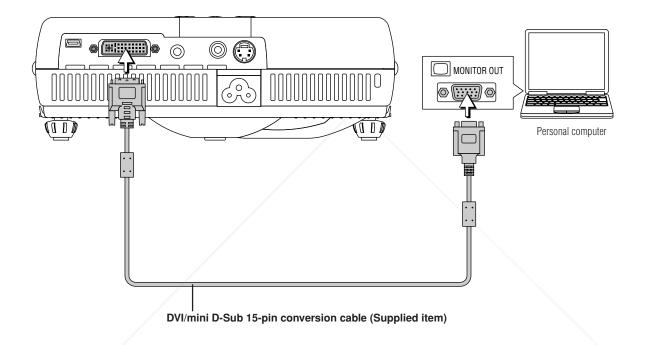
Note

This projector uses a 29-pin DVI connector that supports the digital interface. Digital signal TMDS (Transition Minimized Differential Signalling) of the DVI (Digital Visual Interface) standard is used.

Personal Computers with a Mini D-Sub 15-Pin Connector

When making connections with the DVI connector of the projector, please make the connection via the supplied DVI/mini D-Sub 15-pin conversion cable.
 The projector has been set to "Auto" at the factory; however, if it does not project, please change the input setting to "RGB" using the menu sequence of [Setup] → [Input Format] → [PC].

See "Input Format" on Page E-50.



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Note:

* Before making connections, check the power of the projector and the equipment to be connected is switched off.
 * When projection will be with a notebook computer connected, knowledge will be required for the cable connection and notebook computer startup procedure as well as the operation that follows startup. Please consult the instruction manual of your notebook computer or the online help.

To Output the External Output Signal of a Notebook Computer

When projection will be with a notebook computer connected, knowledge will be required for the cable connection and notebook computer startup procedure as well as the operation that follows notebook startup. Please consult the instruction manual of your notebook computer or the on-line help while performing the following procedure.

Check whether a signal is being sent from the notebook computer to the projector. An indication appearing on the liquid crystal display of the notebook computer does not necessarily mean that an external output signal is being output.

Should a sign not be output from the notebook computer, please try the operation described below. For an IBM PC/AT, DOS/V computer, press the [Fn] key plus any one of the [F1] to [F10] keys. (See the table below.)

Manufacturer	Model	Кеу
DELL	All computers	Fn + F8
EPSON	All computers	Fn + F8
FUJITSU	All computers	Fn + F10
iiyama	All computers	Fn + F3
IBM	All computers	Fn + F7
NEC	All computers	Fn + F3
Panasonic	All computers	Fn + F3
SHARP	All computers	Fn + F5
SONY	All computers	Fn + F7
SOTEC	All computers	Fn + F3–F5
TOSHIBA	All computers	Fn + F5
Victor	All computers	Fn + F10

Note: Table information is current to December 2003.



Note

When the liquid crystal display of the notebook computer and the projector are displayed at the same time, the projected image might not be correct even though the liquid crystal display shows a correct indication. Should this occur, stop the simultaneous display of the notebook computer and try the mode with external output only. (Try an operation such as that described in aforementioned Step 2 and try closing the liquid crystal panel which might result in external output only.)

Connections with Composite Signals

Video Equipment with VIDEO Connectors

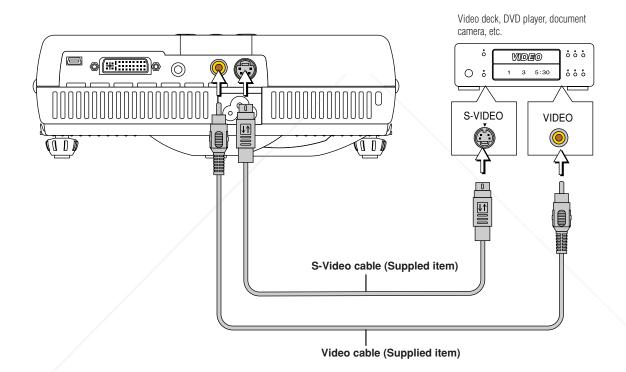
- Make the connection to the VIDEO connector of the projector using the supplied Video cable.
- The input setting of the VIDEO connector has been set to "Auto" at the factory; however, if the projector does not project, please change the input setting to "Your Country's Television Broadcast System" using the menu sequence of [Setup] \rightarrow [Input Format] \rightarrow [Video].

See "Input Format" on Page E-50.

Video Equipment with S-VIDEO Connectors

- Make the connection to the S-VIDEO connector of the projector using the supplied S-video cable.
- The input setting of the S-VIDEO connector has been set to "Auto" at the factory; however, if the projector does not project, please change the input setting to "Your Country's Television Broadcast System" using the menu sequence of [Setup] → [Input format] → [S-Video].

See "Input Format" on Page E-50.

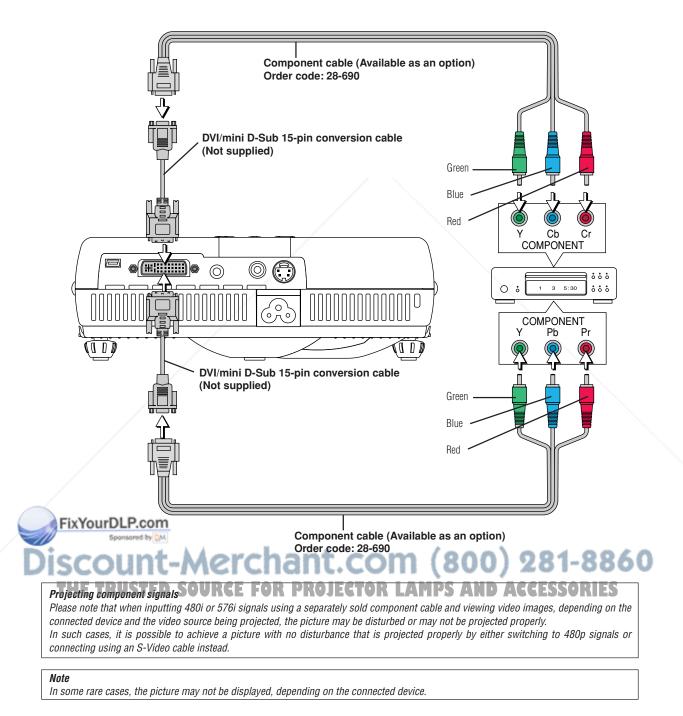




Connections with Component Signals

When the Video Equipment Has a YCbCr Connector or YPbPr Connector

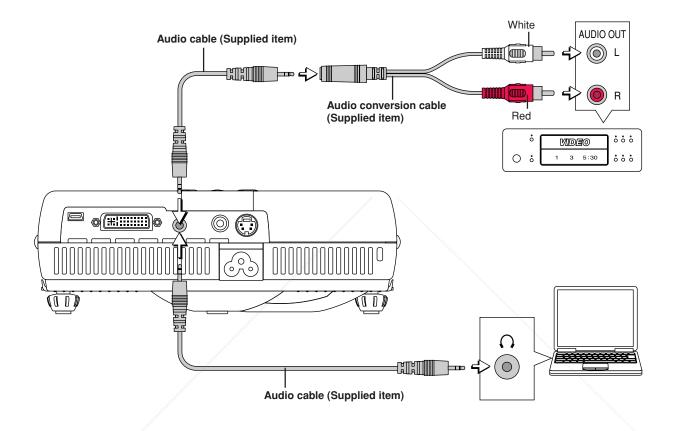
- The projector has been set to "Auto" at the factory; however, if it does not project, please change the input setting to "Component" using the menu sequence of [Setup] → [Input Format] → [PC].
 See "Input Format" on Page E-50.
- This projector automatically distinguishes the YCbCr input signal and the YPbPr input signal and projects it.
 When projecting the YCbCr signal or YPbPr signal, if the color of the overall image strongly leans toward being greenish or another color, change the setting under the menu of [Color] → [Color Space].
 See "Color Space" on Page E-45.



E-19

Connections with Audio Connectors

- * Make the connection to the projector's AUDIO connector using the supplied audio cable. When the audio jack of the equipment that is to be connected is of the RCA phono type, make connection via the supplied audio conversion cable.
- * The built-in speaker of the projector provides monaural audio. To enjoy convincing audio reproduction, please connect the audio output of the video equipment to your audio system.
- * The built-in speaker outputs the audio of the equipment connected to the AUDIO connector.



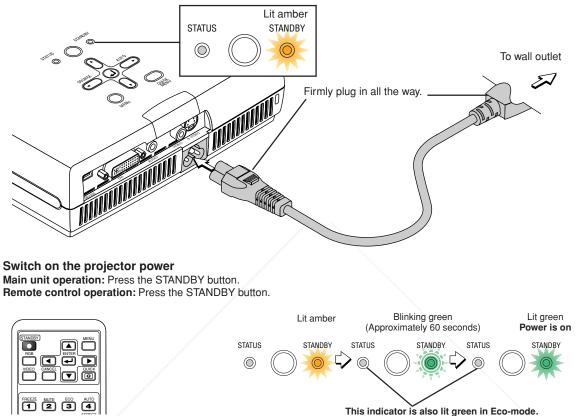


Power Cable Connections and Switching the Power On/Off

There is an order in which the power cable is connected and the power is switched on/off.

Operating

Connect the AC IN connector of the projector and the power outlet using the supplied power cable. The STANDBY indicator will light in amber, and the unit will enter the standby mode.



The first time the power is switched on after purchase, [Menu Language Select] will be displayed. See Page E-22 for information about language selection.

- When the power is switched on, the STANDBY indicator changes to blinking green, then lights steadily after about 60 seconds and the projection screen is set to the brightness of normal mode. At this time, if the STATUS indicator is lit in green, [Lamp Mode] is set to "Eco". See Pages E-28 and E-50 for information about the selection method.
- If the power does not come on, see "When the STATUS Indicator is Lit or Blinking" on Page E-55.

If the "Password" input window is displayed: See Page E-33. A password is set for this projector. The projector cannot be used unless the correct password is input. To turn bit the power: See Page E-23.		Password
The projector is now capable of regular projection.	(800)	281-8860

Note:

• When the power plug will be unplugged from the power outlet, please place the projector near the power outlet so that it may be reached easily.

3 Switch on the power of the connected equipment CTOR LAMPS AND ACCESSORIES

- Press the STANDBY button after the STANDBY indicator is lit in amber.
- The included power cable is exclusively for use with the U4-232. Never use it with other products.

E-21

When [Menu Language Select] is Displayed Upon Switching On the Power

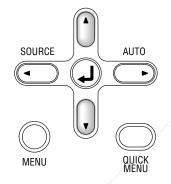
The first time the power is switched on after purchase, [Menu Language Select] will be displayed. Follow the procedure described below and select the display language of the projector.

If the image is blurred, turn the focus ring counterclockwise or clockwise to focus it. See Page E-25.

Menu Language Select			
Please select a menu language.	English		
Wählen Sie bitte die Menü Sprache aus.	Deutsch		
S'il vous plaît choisir la langue de menu.	Français		
Per favore di scegliere la lingua di menu.	Italiano		
Escoja por favor el idioma de menú,	Español		
Välj menyn språken,	Svenska		
메뉴언어를 선택하십시오	한국어		
请选择项目单语言	中文		
メニュー言語を選択して下さい。	日本語		
Select "🛋" "🗾" & "ENTER"			

Cursor

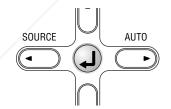
1 Press the SELECT ▲▼ buttons of the projector and align the deep blue cursor with [English].



Menu Language Select	
Please select a menu language.	English
Wählen Sie bitte die Menü Sprache aus.	Deutsch
S'il vous plaît choisir la langue de menu.	Français
Per favore di scegliere la lingua di menu.	Italiano
Escoja por favor el idioma de menú,	Español
Väljmenyn språken.	Svenska
메뉴언어를 선택하십시오	한국어
请选择项目单语言	中文
メニュー言語を選択して下さい。	日本語
Select "🔟" "🛒 & "ENTER"	

2 Press the ENTER button to set.

This will set the language and [Menu Language Select] will close.



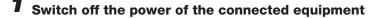
is completes the selection of the display language.



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Caution: [Menu Language Select] will not appear the next time the power is switched on. Should a change of language become necessary, see "Language" on Page E-51.

Finishing



2 Switch off the power of the projector

Main unit operation: Press the STANDBY button. Remote control operation: Press the STANDBY button.

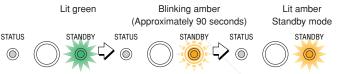
The [Power Off] display appears.

When the level gauge reaches maximum, the projection screen will go off (in about 5 seconds) and the projector will enter the power-off operation.

Note

- The operation can be cancelled by pressing a button other than the STANDBY button.
- * One more press of the STANDBY button will switch off the power.

The STANDBY indicator changes to blinking amber and lights a steady amber after about 90 seconds (when the unit enters the standby mode).



0

Power Off OK?

Unplug the power cable

Check that the STANDBY indicator is lit in amber and then unplug the power cable. The STANDBY indicator will go off when the power cable is unplugged.

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Warrning

Do not unplug the power cable while the STANDBY indicator is blinking amber. Doing so may shorten the life of the lamp or damage the projector.

Adjustment of the Projection Screen

Switch on the power of the connected equipment and make the adjustments with the video signal being input to the projector.

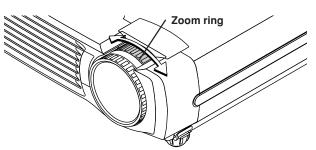
Adjustment of the Projection Screen

Turn the zoom ring to adjust the screen size of the projection image.

Adjust the image to match the desired screen size. When outside of the adjustment range, move the projector to the rear or forward.



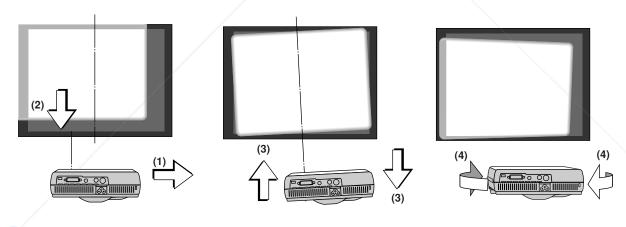
1



2 Adjust the projection image to the screen.

Check that the screen is set level and vertically.

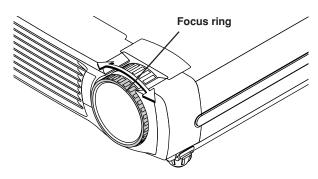
- (1) If the image is shifted to the left or right, move the main unit horizontally. (Align the center of the screen and the center of the projector lens.)
- (2) If the image is shifted vertically, move the image up or down with the adjuster. See "Making Adjustments with the Adjusters" on Page E-25.
- (3) If the image is slanted, adjust by turning the right or left front adjuster. See "Making Adjustments with the Adjusters" on Page E-25.
- (4) A projection image such as that illustrated in the diagram is the result of the projector not being perpendicular to the screen. Set the projector so that it is pointing straight toward the screen.
- (5) If the image shows keystone distortion, adjust using remote control or menu operations. See "Keystone" on Page E-29, 48.





3 Turn the focus ring and adjust the focus of the screen

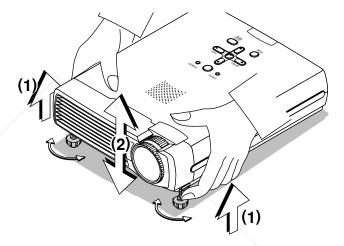




Making Adjustments with the Adjusters Raising the projection image

While viewing the projection image, (1) press and hold the front adjuster buttons located at the left and right and, (2) raise the projector to align the image with the screen, then release your fingers.

Turn the left and right front adjusters for fine adjustment. Adjust so that there is no shaking of the projector.



Lowering the projection image

Lower the front adjusters using the operation described above.

To lower the projection screen further, raise the rear adjuster. Fine adjustments are made by turning the left and right front adjusters. Make adjustments so that there is no rattling.

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Note:

When the projector has a suspended or rear installation is used, the orientation of the projection will need to be changed. Please see "Vertical Flip/Horizontal Flip" on Page E-48. **General Operation**

This section describes the use of direct operation with the main unit or remote control buttons. For information about operation using the menu, see "Menu Operation Method" on Page E-35 and the various items on Pages E-42 to E-54.

Input Selection

This operation selects the input signal to be projected.

Main unit operation: Press the SOURCE button.

(It will not function while the menu or the quick menu is displayed.)

When Auto Source is On

If there is no input signal at the source that was previously used, the projector automatically selects another source that has the next input signal.

When Auto Source is Off

Each press of the button switches the selection one step in the sequence of Analog RGB \rightarrow Component \rightarrow Digital RGB \rightarrow VIDEO \rightarrow S-VIDEO.

Remote control operation: Press the desired input selection button.

RGB button This is used to switch to the PC connector. VIDEO button Each press of this button switches the input between Video and S-Video.

When Auto Source is On

When an input signal is not present at the selected source, the projector automatically selects the next source that has an input signal.

When Auto Source is Off

The projector switches to the selected source regardless of whether an input signal is present.

Note

Voto

- * When you do not operate source selection, the projector will assume the input selection condition that was previously used.
- * See "Auto Source" on Page E-49 for information about the Auto Source on and off conditions.
- * When the input format has been switched, you may be required to reconnect the input signal.

Automatic Adjustment of Analog RGB

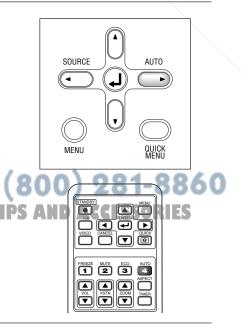
This function automatically adjusts the position shift of the analog RGB input signal, the size of the picture, vertical striping, and color infidelity.

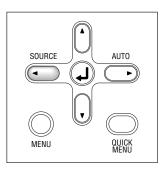
Normally, this function is adjusted automatically at the time of signal selection.

Main unit operation/Remote control operation: Press the AUTO button. (This
will not function while the menu or the quick menu is displayed.)
A press of the AUTO button starts the automatic adjustment.

projection djustment e E-42.
F-12
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the AUTO
ossible by
blem per-
icture Ad-

* When the image extends beyond the boundaries of the screen or is smaller than the screen, set Aspect to "Auto". See "Selection of Aspect Ratio" on Page E-27 and "Aspect" on Page E-47.









Selection of Aspect Ratio

This function selects horizontal and vertical picture proportions of the input signal.

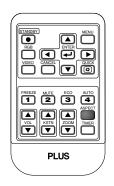
Press the ASPECT button while viewing the projected image and select the aspect ratio.

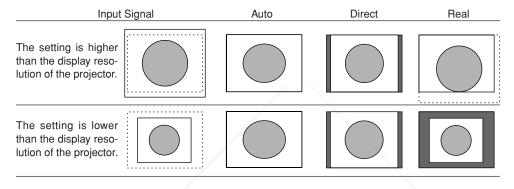
Personal Computer Signal

Each press of the ASPECT button advances the selection one step in the sequence of Auto \rightarrow Direct \rightarrow Real, and then repeats.

- Auto Automatically enlarges or reduces the image to project a full screen in a ratio of 4:3
- Direct Maintains the aspect ratio and projects a picture of the maximum displayable size

Real Projects the input signal without pixel conversion.





Video Signals / Component Signals

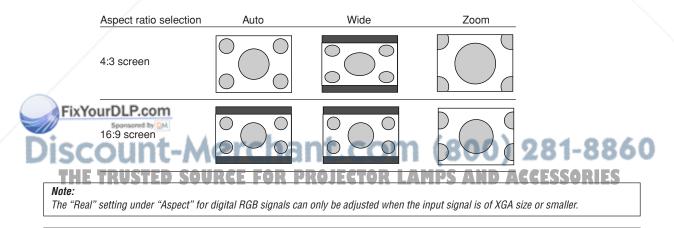
Each press of the ASPECT button advances the selection one step in the sequence of Auto \rightarrow Wide \rightarrow Zoom, and then repeats.

- Auto While maintaining the aspect ratio, projects a full screen so that no portions extend beyond the boundaries of the screen. The top and bottom of the 16:9 image becomes black.
- Wide Projects to fill the full width with the entire image at 16:9.

(This feature is used to project a squeezed image in a proper aspect ratio.)

Zoom Projects only the 4:3 portion within 16:9 image to fill the screen.

(Portion that extend off screen is cut.)



Note:

When selection has been made for the "Real" setting of the personal computer signal (i.e., when the input signal and the projector display resolution are high) and the "Zoom" setting of the video signal, pressing the SELECT $\blacktriangle \forall \blacktriangleleft$ buttons on the remote control will permit movement of the display position. Note that there will not be any movement when the menu or the quick menu is displayed.

General Operation

Freezing a Moving Picture

This function is used to stop and view a moving picture. Note that the input image continues to advance even though the picture there is a still picture condition.

A press of the FREEZE button changes the screen to a still picture. A further press returns the screen to a moving picture.

Cancelling Video and Audio Temporarily

This function is used to cancel the video and audio at the same time.

A press of the MUTE button will blank the picture and the sound, and the screen will take on the background color that has been set. Another press will cause a return to the original conditions.



Lamp Mode

Use this if the picture is projected on a small screen and the picture is too bright or when projecting images in dark rooms.

Pressing the ECO button will set the lamp mode.

Eco (STATUS indicator is lit green)

Lamp brightness is set to 70% and the lamp life is extended.

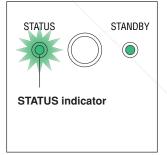
Normal (STATUS indicator is off)

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Lamp brightness is set to 100% and the screen is bright.

Note: Frequent switching this mode can degrade the lamp.

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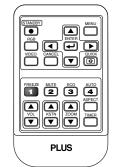
PLUS

FREEZE



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Keystone

Use this to adjust for trapezoidal (keystone) distortion of the projected image.

Adjustment Method

(1) Press the ▲ or ▼ KSTN button to make the left and right sides parallel.

The keystone adjustment display appears when one of the buttons is pressed.

Keystone	0 -]+
Press the "▼" butto	n.	Press the "▲" button.

(2) Press the CANCEL button to immediately close the display. The display will close when there has not been an operation in about 10 seconds.

Note:

- * Keystone adjustment values can be saved. See "Keystone Save" on Page E-48.
- * Screen examples have been drawn in an exaggerated style for the purpose of description.

 Please note that depending on the projected picture and the projection conditions, it may not be possible to eliminate keystone distortion completely.

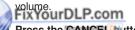
Adjustment of the Volume

This function adjusts the volume of the built-in speaker.

- (1) Press the \blacktriangle or \blacktriangledown VOL button to adjust the volume.
 - The volume adjustment display appears when one of the buttons is pressed.

Volume 0+	Volume	0+
-----------	--------	----

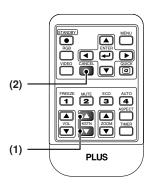
The \blacktriangle button increases the volume and the \blacktriangledown button decreases the



Press the CANCEL button to immediately close the display. The display will close when there has not been an operation in about

10 seconds.





LAMPS AND ACCESSORIES

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1234

(2)

Enlargement of the Image and Video Movement

This function digitally enlarges the personal computer image and video image.

(1) Press the ZOOM button to enlarge the image.

The zoom display appears when the ZOOM button is pressed.



When the \blacktriangle button is pressed, the image is enlarged approximately 2 times, and when the \triangledown button is pressed the image is reduced (returning to 1:1).

• The enlargement function cannot be used with digital RGB inputs.



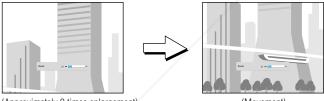


(No enlargement)

(Approximately 2 times enlargement)

(2) Pressing the SELECT ▲▼◀► buttons on the remote control at the time of the zoom operation will cause the display position to move.

(There will not be any movement when zoom is at 0.)



(Approximately 2 times enlargement)

(Movement)

(3) Press the CANCEL button to immediately close the display.

The display will close when there has not been an operation in about 10 seconds.

Note:

After magnifying the image, be sure to use the ZOOM button to bring the gauge value back to "0".

The image can also be moved in the following circumstances.

When "Aspect" is set to "Real" by the signal of the Analog RGB, and the input resolution is higher than the display resolution of the projector.

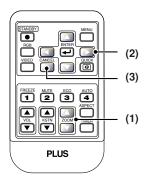
When "Aspect" is set to "Zoom" by the video signal.

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Note:

Zoom and image movement functions are cancelled when the input is switched.

* Movement of the screen will not be possible when the menu screen is being displayed.



Using the Presentation Timer	
The presentation is given while checking the timer displayed on the screen. The gauge display allows the remaining time to be known at a glance.	
(1) Press the TIMER button to show the settings display. The display will close when an operation has not been made for about 10 seconds.	
Presentation Timer < Off ►	PLUS
[Timer settings display]	
Press the CANCEL button to close the display immediately.	
(2) Use the	
Settings can also be made with the SELECT \triangleleft buttons.	
Presentation Timer < 10 min.	
 (3) Press the ENTER button and start the timer. The display of the timer setting will close, the display of the timer will appear and simultaneously the timer will start. Gauge (Blue) [Timer Display] 	
The blue gauge indicates the remaining time. When the gauge disappears, the time is up. The gauge continues to be displayed when the timer is stopped.	
When the remaining time is "0" (Gray)	
 Press the ENTER button to restart the timer. The timer will start with the same time setting. Press the CANCEL button to close the timer display. The timer setting will return to "Off". 	
Moving the Position of the Timer Display e SELECT A C buttons on the remote control permit move- nt within the movable range of the timer display.	
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THE TRUSTED SOURCE FOR PROJECT	OR LIAMPS AND ACCESSORIES
	Movable Range of the Timer Display

Note:

The timer display will be closed while the menu or the quick menu is displayed, and while a message is displayed; however, the timer will still be operating at such times. Also, the timer will not be displayed unless a signal is being input.
 While the presentation timer is being displayed, screen movement will not be possible in the zoom mode.

E-31

Protecting the Projector with the Security Lock

A password can be registered and the security lock set in order to protect the projector from unauthorized use.

Registering the password

The password is registered using the menus. For instructions on operating the menus, see "Menu Operation Method" on E-35.

Image Color View Setu	p Option Info,
(1) Select "Security Lock" in the "Option" menu and set it to "Enable". The menu closes and the password registration display appears.	Language
 (2) Use the number buttons (1 to 4) to register the password. Be sure to input a 4-digit number. Example: Registering the password "2441" (1) Press number button "2". An "*" (asterisk) appears at the first place. Next press number buttons "4", "4" and "1" in that order. Asterisks appear in all four places. 	REEZE MUTE ECO ALCO VOLO VIENTE ECO ALCO VVIENTE ECO ALCO VVIENTE ECO ALCO VVIENTE ECO ALCO VVIENTE VIENTE VVIENTE VIENTE VVIENTE VVIENTE VIENTE VVIENTE VVIENTE VIENTE VVIE
(2) hipdt the password again. An * appears when the input humber matches. If there is a mistake, the asterisks turn off. Start over from step (1) above. If the password matches, the password registration display closes. Password Register Password Confirm Password Register Password Confirm Password Register Pas	
Note: To cancel the number you have input, press the CANCEL button. The asterisks disappear and the display returns to the input standby mode at the first place. To cancel the password registration mode, press the CANCEL button again. The "Pass- word" display turns off.	
This completes password registration. The "Password" input display appears the next time the power is turned on. FixYourDLP.com	
	800) 281-8860 S AND ACCESSORIES

General Operation

If the password input display appears when the power is turned on

When a password has been registered, the "Password" input window appears on the projected image when the power is turned on. The projector continues projecting this image until the correct password is input. At this time, only the STANDBY button (power off) works. Use the procedure described below to input the registered password. For instructions on registering the password, see E-32.

Input the password using the number buttons (1 to 4).

Be sure to input the registered 4-digit number.

Example: To input the password "2441"

Press number button "2". An "*" (asterisk) appears at the first place.



Next press number buttons "4", "4" and "1" in that order. Asterisks appear in all four places.

If the password matches, the window turns off and the projector can be used normally.



Password

[Password input window]

Canceling the password/Changing the password

The password is canceled and changed using the menus. For instructions on operating the menus, see "Menu Operation Method" on E-35.

	Image	Color	View	Setup	Option	Info,			
Canceling the password					Language			ų.	
Select "Security Lock" in the "Option" menu and set it t	o "Disa	ble".			On Screen		•	On	•
This clears the password and disables the security lock	k.				Background		•	Blue	•
The password input display no longer appears when the	ne powe	er is turne	ed on.		Startup Scr	een	•	Logo	•
					Security Lo	ick 📃	. ◄	Disable	
Changing the password	ahava	oot it bool	te "Γe	-					

After setting "Security Lock" to "Disable" as described above, set it back to "Enable". The menu closes and the password registration display appears. Register the new password. See "Registering the password" on E-32.



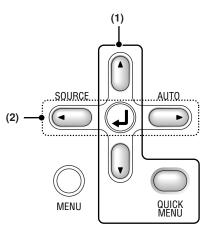
Using the Quick Menu

This function permits frequently used adjustments to be performed quickly.

Note that the Quick Menu will not be displayed unless the signal of the connected equipment is input. Please select the input that you wish to adjust.

Main unit operation

- (1) Press the QUICK MENU button to display the quick adjustment display. Further presses cause the adjustment display to change in sequence. Press the SELECT ▲ or ▼ button to switch to the desired adjustment display.
- (2) Press the SELECT \triangleleft or \blacktriangleright button to adjust.

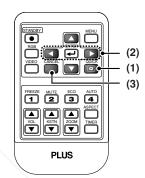


Remote control operation

(1) A press of the QUICK MENU button brings up the quick adjustment display.

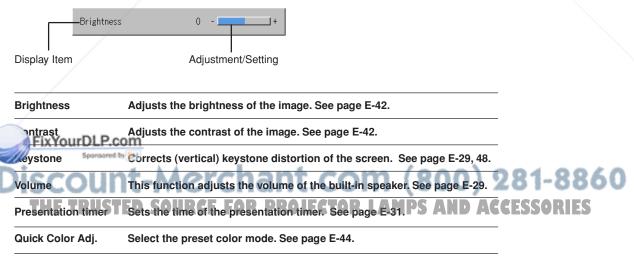
Further presses cause the adjustment display to change in sequence. The adjustment display can be selected with use of either the SELECT \blacktriangle or \checkmark button.

- (2) Press the cursor ◀ or ► button to make the adjustment.
- (3) To close the display immediately, press the CANCEL button. In the absence of operations for a period of about 10 seconds, the display will close automatically.



Content of Adjustments and Settings

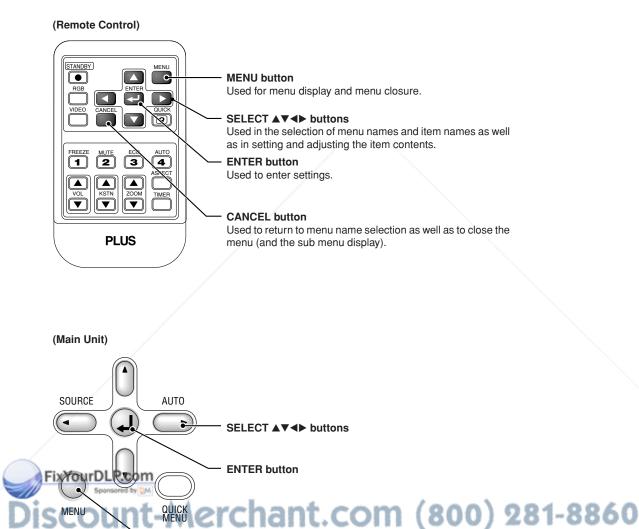
Example: Brightness adjustment display



Menu Operation Method

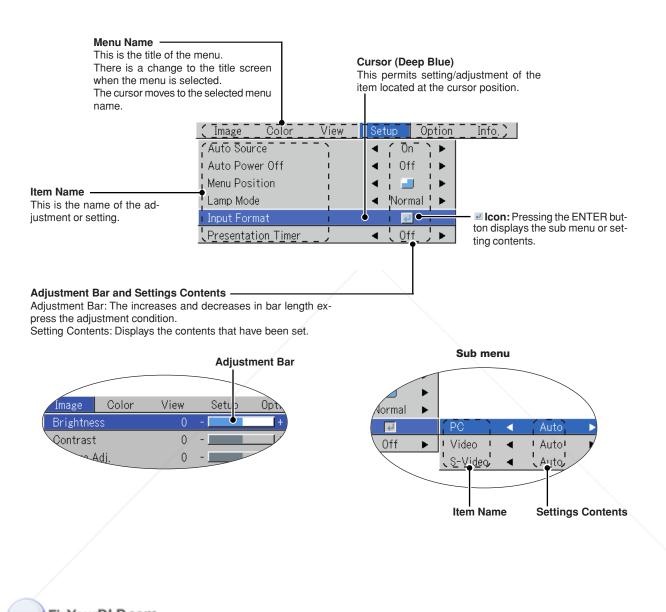
- This section describes only the menu operation method. Please see this item should you need information while performing menu operations.
- For information about a menu function, adjustment, or setting, please see one of the pages containing such descriptions.
- · Adjustments and settings are made by projecting an image and adjusting to an optimum condition.
- · The remote control should be pointed toward the remote control sensor of the projector and operated.
- To return the various items that have been changed via the menu to their standard values (i.e., default values at time of shipping from the factory), see "Factory Default" on Page E-53. (Some items will not return to their initial values.)
- The adjustment/setting items and contents will differ depending on the input selection and the adjustment/setting items that can be used with the input signal are displayed on the menu.

Names and Functions of Buttons Used for Menu Operations



EMEND BUTTOR OJECTOR LAMPS AND ACCESSORIES Used to display menus, to return to menu name selections, and to close menus (i.e., closing sub menu displays).

Menu Screen Names and Functions





Performing Menu Operations

- Only "Setup", "Options" and "Info." can be selected when no signal is being input.
- The menu display will close if, after pressing a button, the next button operation is not made within 30 seconds.
- The adjustment and the setting values are stored even when the power is switched off or the plug is disconnected from the power outlet.

(Note that some items are not stored.)

Preparation Switch on the power of the connected equipment, start the play operation or another operation, and input the signal to the projector.

Select the input that you wish to adjust.

The menu display of the description diagram depicts an example in which the "Keystone" item name is selected.

Menu Display

Press the MENU button to display the menu

(
	ROB ROB CANCEL CANCEL CANCEL COUCK COUCK
	RREEZE MUTE ECO AUTO 1 2 3 4 Aspect VOL KSTN ZOOM TMER VOL V

Image	Color	View	Setup	Option	Info,
Brightne	ss	0	-	+	
Contrast	:	0	-	+	
Picture #	Adj.	0	-	+	
Fine Pict	ure	0	-	+	
H Positio	on	0	-	+	
V Positie	on	0	-	+	
Reset			L.	J	

The menu name that existed when the menu was closed previously will be displayed.

Selection of the Menu Name

Press the SELECT <> button to select the menu name

	Image	Color	View	Setup	Option	Info,	
STANDBY			Aspect		•	Auto	•
			Filter		•	3	•
			Vertical F	lip	•	Off	•
			Horizonta	l Flip	•	Off	•
			Keystone		0 -		+
			Keystone	Save	•	On	•
Each press of the SELECT ► button advances "Option" → "Info." → "Image". Each press of the	the selection or SELECT ◀ but	ie step ir on cause	the seque a return	ence of "C of one ste	olor" \rightarrow "Viep.	ew" \rightarrow "Se	tup" \rightarrow
The cursor moves to the selected menu name.	PROJECT	DR L/	AMPS	AND	ACCES	SORIE	S

Note:

Please check that the cursor of the item name has disappeared at the time of menu name selection. Press the CANCEL button to make the cursor disappear. **Displaying the Cursor**



Press the ▼ SELECT button to display the item name selection cursor.

(STANDBY) MENU	Image Color	View Setup	Option Info.	
		Aspect	 Auto 	•
		Filter	◄ 3	►
		Vertical Flip	 Off 	►
FREEZE MUTE ECO AUTO	This condition al-	Horizontal Flip	 Off 	•
	lows selection of the	Keystone	0 -	+
VOL KSTN ZOOM TIMER	item name.	Keystone Save	< On	•

Selection of the Item Name

Press the SELECT ▲▼ button to align the cursor with the item name

(
	ETANDEY ROB VUECO CANCEL COUIX COUIX COUIX
	FREEZE MUTE ECO AUTO 234 ASPECT VOL VOL VOL VOL VOL VOL VOL VOL

Image	Color	View	Setup	Option	Info,	
		Aspect		•	Auto	•
		Filter		•	3	•
		Vertical F	lip	•	Off	•
		Horizonta	l Flip	•	Off	•
		Keystone		0 -		+
		Keystone	Save	•	On	•
	-					

Items for which the 🖃 Icon Is Displayed

Press the ENTER button to display the submenu.

Press the SELECT ▲▼ button and align the cursor with the desired item name.

There are also some items for which the setting display or the verification display will appear. Please see the various item descriptions.

STANDBY RGB NER VDEO CANCEL VDEO CANCEL VDEO CANCEL VDEO CANCEL VDEO	
FREEZE MUTE ECO AUTO 1 2 3 4 AUTO 1 2 3 4 AUTO AUTO AUTO 1 2 3 1 AUTO AUTO 1 2 3 1 AUTO AUTO 1 2 3 1 AUTO AUTO 1 2 3 1 AUTO AUTO 1 2 3 1 AUTO	

, auto , lower our		JIT			Sub	menu	
Menu Position	•		•				
Lamp Mode	•	Normal	•				
Input Format		4		PC		Auto	•
Presentation Timer	•	Off	•	Video	•	Auto	•
				S-Video	•	Auto	\mathbf{P}

Making Adjustments/Settings

Press the SELECT I button and make the adjustment (or setting) while viewing the image When a button is pressed, the image will also change.



Adjustment display: Each press of the button results in a change of 1 point and continued presses cause changes to proceed in order.

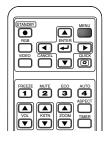
Setting display: The setting contents display changes with each press of the button.

E-38

Closing the Menu



Press the MENU button and close the menu display



Selecting Another Menu Name with Remote Control Operation

When a sub menu is displayed, press the CANCEL button and close the sub menu.

Press the CANCEL button again to turn off the item name cursor.

		ָ כַּ
FREEZE 1 VOL VOL	MUTE E	ב ביווים

Image	Color	View	Setup	Option	Info,	
		Aspect		•	Auto	•
		Filter		•	3	•
		Vertical F	lip	•	Off	•
		Horizonta	l Flip	•	Off	•
		Keystone		0 -		+
		Keystone	Save	•	On	•
	-					
Image	Color	View	Setup	Option	Info,	
		Aspect		•	Auto	•
		Filter		•	3	•
		Vertical F	lip	< ◄	Off	•
		Horizonta	l Flip		Off	•
		Keystone		0 -		+
		Keystone	Save	•	On	•

View

0

Setup

Option

Info

Color

Brightness

Press the SELECT <> button and select the menu name. (Menu names cannot be selected when the item name cursor is displayed.)



Note:

A press of the QUICK button while the menu is displayed will close the menu and display the quick menu. A press of the MENU button while the quick menu is displayed will close the quick menu and display the menu.

List of Item Names Offering Input Selection and Adjustments/Settings

The item names that can be adjusted/set will differ depending on the input signal.

[Example of Menu Display Items at the Time of Input Signal RGB Selection]

			Image	Color	View	Setup	Option	Info,						
			Brightn	ess	0	-	+							
			Contras	st	0	-	+							
			Picture	Adj.	0	-	+							
			Fine Pic		0	-								
			H Posit		0	-	+							
			V Posit	ion	0	-	+							
			Reset			له								
									To	nput rmin	<u> </u>		ъС	VIDEO
									mput	signal	neni	RGB (ACE IDE G	
Menu na	me	Item Na	me		ib Menu m Name	/			Inpu	iomp	Analoy	jigitai	RGL NEO	WIDE Reference Page
Image		Brightne	ss						0	0	0	0	0	E-42
		Contrast				/			0	0	0	0	0	E-42
		Color										Ο	0	E-42
		Tint							0			Ο	0	E-42
	[Sharpne	SS									0	0	E-42
	[Picture A	\dj.							0				E-42
	[Fine Pict	ure							0				E-43
	[H Positic	n							0				E-43
	[V Positio	n							0				E-43
	Ī	Reset	/						0	0	0	0	0	E-43
Color		Quick Co	olor Adj.							0	0			E-44
	ſ	Gamma							0	0	0	0	0	E-44
		Color Te	mp.						0	0	0	0	0	E-45
		White							0	0	0	0	0	E-45
		Color Spa	ace						0					E-45
	-	White Ba								0				E-46
View		Aspect							0	0	0	0	0	E-47
$\langle \rangle$	ľ	Filter							0	0	0	0	0	E-47
FixYo	urDL	Rendal	Flip						0	0	0	0	0	E-48
	Spon	Horizont			_				0	Q	0	0	0	E-48
icc		Keystone		orc	ha	nt (\sim on	1 (2	0	0	0	0	Õ	E-48
120		Keystone			110			1 (0	$\overline{\mathbf{O}}$	0	0	\overline{O}	0	E-48
THE	TRU	STEP	SOU	RCE F	OR P	ROJEC	TOR L	AMPS	AN	Ď	11	47	NY.	RIES

* "Tint" can be adjusted only at the time of NTSC composite/S signal input.

* The color space can only be adjusted with high definition TVs.

* The "Real" setting under "Aspect" for digital RGB signals can only be adjusted when the input signal is of XGA size or smaller.

Imag		Setup Option	Info,								
	Source Power Off	 On ► Off ► 									
	Position										
Lamp		▲ Normal ►									
	Format	e literature	PC	•	Auto						
	ntation Timer	 ♦ Off 	Video	•	Auto	•					
			S-Video	•	Auto	•					
							mpul				
							· · ·		P RGB JIGIIO JIGIIO	ەر مەر	
		Cub Manu					1 SIQI	JNer of	\$^^	DE G	NDEO Referenc Page
Menu name	Item Name	Sub Menu Item Name				Inte	<u> </u>	×101	j1911-J	9¥3	Reference Page
Setup	Auto Source		/			0	0	0	$\left[0 \right]$	0	E-49
	Auto Power Off					0	0	0	0	0	E-49
	Menu Position					0	0	0	0	0	E-49
	Lamp Mode					0	0	0	0	0	E-50
	Input Format	PC				0	0	0	0	0	E-50
		Video				0	0	0	0	0	E-50
		S-Video				0	0	0	0	0	E-50
	Presentation Timer					0	0	0	0	0	E-50
Option	Language					0	0	0	0	0	E-51
	On Screen					0	0	0	0	0	E-51
	Background					0	0	0	0	0	E-51
	Startup Screen					0	0	0	0	0	E-52
	Security Lock					0	0	0	0	0	E-52
Info.	Status					0	0	0	0	0	E-53
	Factory Default					0	0	0	0	0	E-53
	Lamp Timer Reset					0	0	0	0	0	E-53
	Resolution					0	0	0	0	0	E-54
	Frequency					0	0	0	0	0	E-54
FixYourDl	Lamp Timer					0	0	0	0	0	E-54

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- Perform this operation while projecting the picture for which the adjustment/setting will be made.
- Select the menu name "Image".
 See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Brightness / Contrast / Color / Tint / Sharpness

Picture qualities such as brightness and contrast will change depending on the whether the room is bright or dark. Please adjust to suit your preference.

Select the desired item name and then adjust with the SELECT ◀► buttons.

Item Name	SELECT Button	SELECT Button
Brightness	Darker	Brighter
Contrast	Less contrast	More contrast
Color	Less dense color	Denser color
Tint	More red	More green
Sharpness	Softer image	Sharper image

Note:

* The adjustment values of the adjustable items are stored according to input source.

* "Tint" can only be adjusted when inputting NTSC composite/S-Video signals or component signals.

Picture Adj. / Fine Picture / H Position / V Position

Usually, automatic adjustment is performed at the time of signal selection, but when automatic adjustment is not effective, these adjustments can be performed.

Note:

When the image extends beyond the boundaries of the screen or is smaller than the screen, check that the "View" \rightarrow "Aspect" setting is set to "Auto". See "Aspect" on Page E-47.

Picture Adj. (Picture Adjustment)

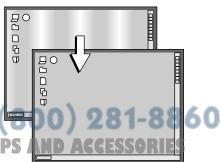
Adjust this when bright and dark vertical bands appear on the screen.

Select the "Picture Adj." item name and adjust with the SELECT ◀► buttons so that the vertical bands disappear and brightness becomes uniform across



	- +
0	+
0	+
0	+
0	+
	له
	Š

Brightness	0+
Contrast	0+
Picture Adj,	0 - +
Fine Picture	0+
H Position	0+
V Position	0+
Reset	고



Image

Fine Picture

Adjust this when the picture shows a lack of color fidelity or flickering.

Select the "Fine Picture" item name and adjust with the SELECT ◀► buttons so that the lack of color fidelity or the flickering disappears.

H Position

Adjust this when the picture is shifted to the left or right.

Select the "H Position" item name and adjust with the SELECT ◀► buttons.

V Position

Adjust this when the picture is shifted up or down.

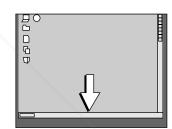
Select the "V Position" item name and adjust with the SELECT ◀► buttons.

Reset

This function resets (i.e., returns to the standard settings) the adjustment/setting value of the "Image" menu name.

A press of the ENTER button forces the reset.

	Vote:	
-11	The item name "Fine Picture" at the time of RGB input will not be reset. "Reset" of the menu name "Image" can be reset for each input source.	
	* To reset the adjustments/settings of all the menu items (while noting that there are some items that cannot be reset), see "Factory Default"	
Щ	on Page E-53. Int-Merchant.com (800) 281-886	
	THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES	



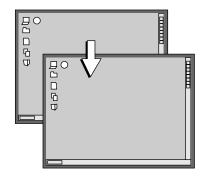
0

Brightness

Fine Picture H Position V Position

Contrast Picture Adj.

Reset



Color

• Do the following operation while displaying the image you want to adjust or set.

Select the menu name "Color".

See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Quick Color Adj.

Select the preset color mode.

Select the "Quick Color Adj." item name and select the setting contents with the SELECT **<>** buttons.

Color Select this to prioritize color.

Standard Select this to prioritize brightness.

* When "Color" or "Standard" is selected, the "Gamma", "Color Temp." and "White" adjustment items are displayed in gray and cannot be selected or adjusted.

Custom "Gamma", "Color Temp." and "White" adjustment items can be selected and adjusted

* The selected values for the different adjustment items are stored in the memory so the desired color adjustments can be set.

Gamma

Gamma corrects the proportion of change of the dark portions from the bright portions of the input signal.

Set this to reproduce natural color tone or to distinctly project a personal computer picture in a bright conference room.

Select the "Gamma" item name and select the setting contents with the SE-LECT ◀▶ buttons.

Normal Correction with standard settings Natural Corrects for natural color tones Real Corrects with emphasis on brightness

Note:

When "Color" or "Standard" is selected for "Quick Color Adj.", the "Gamma" adjustment item is displayed in gray and cannot be selected or adjusted.

Quick Color Adj.	•	Custom	•
Gamma	•	Normal	•
Color Temp.	•	Normal	•
White	•	Low	►
White Balance		4	

Quick Color Adj.	•	Custom	•
Gamma	•	Normal	•
Color Temp.	•	Normal	•
White	•	Low	•
White Balance		ب	



Color Temp.

The screen color is affected by the color of the illumination and other extraneous light.

This function adjusts the white, which is the reference color for video equipment, and improves the quality of color reproduction. Adjustment can also be used to enhance skin colors.

Select the item name "Color Temp." and select the setting contents with the SELECT <> buttons.

Low Produces warm whites (reddish) Medium Produces warm whites (yellowish) Normal Produces the white of sunlight High Produces cool whites (bluish)

Note:

When "Color" or "Standard" is selected for "Quick Color Adj.", the "Color Temp." adjustment item is displayed in gray and cannot be selected or adjusted. See "Quick Color Adj." on E-44.

White

When projecting, this function is used to emphasize the whites of text or diagrams on the personal computer.

Select the item name "White" and use the SELECT <> buttons to select the setting contents.

Select the desired degree of white from among "Low", "Medium", and "High".

Note:

When "Color" or "Standard" is selected for "Quick Color Adj.", the "White" adjustment item is displayed in gray and cannot be selected or adjusted. See "Quick Color Adj." on E-44.

Color Space

Set this function when a component signal (YPbPr) is projected and the image is extremely red or extremely green.

Select the item name "Color Space" and use the SELECT ◀► buttons to select a color space setting that provides a normal image.

Selection contents at the time of YPbPr input

BT.709. SMPTE240

When the component signal undergoes conversion processing to red, green, and blue which express the image of the projector, the correct color cannot be reproduced unless a system compliant with the color difference conversion system of the input signal is used. Color Space serves to make this selection. The color space can only be adjusted with high definition TVs.

Quick Color Adj.	•	Custom	►
Gamma	•	Normal	•
Color Temp.	•	Normal	•
White	•	Low	•
White Balance		4	

Quick Color Adj.	•	Custom	•
Gamma	•	Normal	•
Color Temp,	•	Normal	•
White	•	Low	
White Balance		4	

Gamma	•	Normal	►
Color Temp,	•	Normal	►
White	•	Low	►
Color Space	•	BT,709	•

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	is function automatically adjusts the black level and the white level of analog RGB input signal to suit the personal computer.	Quick Color Adj.	
16	analog hob input signal to suit the personal computer.	Color Temp.	Normal
	Select the item name [White Balance] and press the ENTER button.	White 🗸	I Low
	The display will change to [Input Black Signal].	White Balance	2
2	The screen background color of the connected personal computer will be set to black.		
3.	Press the ENTER button.The display will change to [Adjusting Black] and the black level will be adjusted.		
	Input Black Signal		
ļ	The adjustment of the black level is completed and the display changes to [Input White Signal].		
1			
5	changes to [Input White Signal]. The screen background color of the connected personal computer		
-	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White]		
5	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White]	White Balance	e Complete
5	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White] and the white level will be adjusted.	White Balance	e Complete
5	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White] and the white level will be adjusted.	White Balance	e Complete
5	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White] and the white level will be adjusted. Input White Signal	White Balance	e Complete
5	changes to [Input White Signal]. The screen background color of the connected personal computer will be set to white. Press the ENTER button. The display will change to [Adjusting White] and the white level will be adjusted. Input White Signal	White Balance	e Complete



- · Perform this operation while projecting the picture for which the adjustment/setting will be made.
- Select the menu name "View".

See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Aspect

This function sets the horizontal and vertical picture proportions of the input signal.

Select the item name "Aspect" and select the setting contents with the SE-LECT ◀▶ buttons.

Personal Computer Signal

Auto Automatically enlarges or reduces the image to project a fu	ll screen in a
ratio of 4:3	

- Direct...... Maintains the aspect ratio and projects a picture of the maximum displayable size
- Real Projects the input signal without pixel conversion

Video Signals

- Auto While maintaining the aspect ratio, projects a full screen so that no portions extend beyond the boundaries of the screen. The top and bottom of the 16:9 image becomes black.
- Wide Projects to fill the full width with the entire image at 16:9. (This feature is used to project a squeezed image in a proper aspect ratio.)
 Zoom Projects only the 4:3 portion within 16:9 image to fill the screen.
- Zoom Projects only the 4:3 portion within 16:9 image to fill the screen. (Portion that extend off screen is cut.)

See "Selection of Aspect Ratio" on Page E-27 for diagrams of projection screen images that correspond to the input signals.

Note:

The "Real" setting under "Aspect" for digital RGB signals can only be adjusted when the input signal is of XGA size or smaller.

Note:

Please note that using this monitor for the purpose of commercial gain or the attraction of public attention in a venue such as a coffee shop or hotel and projecting a 4:3 screen in wide mode or leaving a squeezed screen as a compressed image raises concern about the infringement of the copyright holder's rights which are protected by copyright law.

Filter

This function sets the sharpness when the input signal is adjusted to resolution of the projector and enlarged or reduced.

Select the item name "Filter" and select the setting contents with the SELECT ◆ buttons.



Smaller numerical values result in a sharper picture and larger values result in A Mevstone save ACCESSO UNES a softer picture. Please select your desired setting value.

Aspect	•	Auto	•
Filter	•	3	•
Vertical Flip	•	Off	•
Horizontal Flip	•	Off	•
Keystone	0 - 1		+
Keystone Save	•	On	►

Vertical Flip/Horizontal Flip

In selecting the method of projecting to the screen, these functions are set when the projector is in a rear screen installation.

Select the item name "Vertical Flip" or "Horizontal Flip" and select the setting contents with the SELECT ◀► buttons.

Aspect	•	Auto	►
Filter	•	3	►
Vertical Flip	•	Off	•
Horizontal Flip	•	Off	►
Keystone	0 - 1		+
Keystone Save	•	On	•

"Vertical Flip" Off "Horizontal Flip" Off U

"Vertical Flip" Off "Horizontal Flip" On 62,10

"Vertical Flip" On "Horizontal Flip" On



"Vertical Flip" On "Horizontal Flip" Off

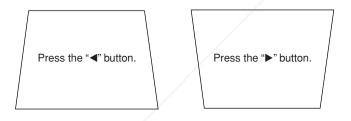


Keystone

Keystone distortion will occur when the projector and screen are on an angle (in the vertical orientation). This function is used to correct this distortion.

Select the item name "Keystone" and correct the keystone distortion using the SELECT ◀ ► buttons.

Aspect	•	Auto	►
Filter	•	3	►
Vertical Flip	•	Off	►
Horizontal Flip	•	Off	•
Keystone	0 -		+
Keystone Save	•	On	•



Note:

- The menus and other on-screen displays cannot be adjusted.
- Please note that depending on the projected picture and the projection conditions, it may not be possible to eliminate keystone distortion completely.

Keystone Save

This function is used to save the keystone adjustment values.

Setting Keystone Save to on will set the previous keystone adjustment values projecting after the power cable has been disconnected and then recon-





Off The keystone adjustment values return to the initial values when the power PS AND ACCESSORIES cable is unplugged.

On The keystone adjustment values are retained in storage even when the power cable has been unplugged.

Note:

Regardless of whether Keystone Save is set to "On" or "Off", when projection is from the standby condition, the picture is projected using the previous keystone adjustment values.

Select menu name "Setup".

See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Auto Source

The Auto Source function automatically detects the input signal when the power supply is switched on and when the input is switched.

Select the item name "Auto Source" and select the setting contents with the SELECT ◀► buttons.

On Switches on the automatic detection function Off Switches off the automatic detection function

Signal Detection Order When On

The sequence of Analog RGB \to Component \to Digital RGB \to VIDEO \to S-VIDEO is searched repeatedly.

When a signal is detected, the search is stopped and the image is projected.

Auto Power Off

This function switches off the projector power automatically when the input of the projector enters a no-signal condition.

Select item name "Auto Power Off" and select the setting contents with the SELECT ◀► buttons.

On The power is switched off when there is no signal. Off The power is not switch off even when there is no signal.

Operation when Function is On

- The "No Signal Power Off" display appears when a no-signal condition continues for approximately 10 seconds. The power is switched off about 5 minutes after this.
- If a signal is input during the appearance of the display and an operation button other than the STANDBY button is pressed, the display is closed and the function is cancelled.

Auto Source	•	On	
Auto Power Off	•	Off	٣
Menu Position	•	_	•
Lamp Mode	•	Normal	•
Input Format		L.	
Presentation Timer	•	Off	•

	Auto Source	•	On	
4	Auto Power Off	•	Off	
1	Menu Position	•	_	۲
	Lamp Mode	◄	Normal	•
	Input Format		L.	
	Presentation Timer	•	Off	



Note:

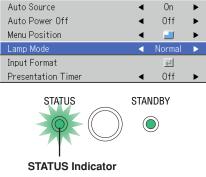
Some video decks and other equipment output a blue background or other video when playback ends. When this happens, a signal is being input to the projector and Auto Power Off is not activated.



Normal The lamp brightness is set to 100% and the screen is bright. (STATUS indicator is off)

Note:

Frequent switching this mode can degrade the lamp.



Input Format

This function is used in setting the input signals of the input connectors. Normally, this should be set to Auto. When identification is not possible with Auto, make the setting.

Select the item name "Input Format", press the ENTER button, and the sub menu will open. Select the connector that is to be changed, and select the setting contents with the SELECT **<>** buttons.

[PC] This is the signal setting for the DVI connector.	Auto Source Auto Power Off	 	On Off	•				
	Menu Position			•				
Auto Automatically identifies the signal.	Lamp Mode	₹	Normal	•				
RGB Analog RGB signal is set. Digital Digital RGB signal is set.	Input Format		<u>ب</u>		PC		Auto	•
Component . Component signal is set.	Presentation Timer	•	Off		Video	•	Auto	•
component. component signal is set.					S-Video	•	Auto	•

[Video] and [S-Video]

["Video" and "S-Video" are the color format settings for the VIDEO connector.

Auto Automatic identification.	
NTSC Fixed to the NTSC system.	
NTSC 4.43 Fixed to the NTSC 4.43 system.	
PAL Fixed to the PAL system.	
PAL M Fixed to the PAL M system.	
PAL N Fixed to the PAL N system.	
PAL 60 Fixed to the PAL 60 system.	
SECAM Fixed to the SECAM system.	

Note:

- * When the input format has been switched, you may be required to reconnect the input signal.
- * The picture may be disturbed when the input format is switched or when the mode is set back to auto. This is not a malfunction. The picture will return to normal when the input is switched, etc.

Presentation Timer			
presentation is given while checking the timer displayed on the	Auto Source	◀ On	•
screen. The gauge display allows the remaining time to be known at a glance.	Auto Power Off Menu Position	81-8 ^{0ff}	36
Select the item name "Presentation Timer" and select the setting contents with the SELECT <> buttons.	Lamp Mode Input Format		al ►
	Presentation Timer	 Off 	

Setting contents: Off, 10 min., 20 min., 30 min., 40 min., 50 min., 60 min.

To start the timer...

Press the MENU button and open the menu. The timer display will appear at the lower right and the timer will start. See "Using the Presentation Timer" on Page E-31 for details.

Option

Language

· Select menu name "Option".

This function sets the language that is displayed on screen in

See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Language

Lي.

Wide

the messages and menu displays. On Screen 0n Deutsch Background Blue Français Select item name "Language" and press the ENTER button to open the Language sub menu. Startup Screen Logo Italiano Þ Select the language with the SELECT ▲▼ buttons. Security Lock Disable Español Svenska 한국어 中文 日本語 **On Screen** This function switches on/off the messages displayed with a black Language 41 frame such as the input signal information and the aspect ratio. Background Blue Select item name "On Screen" and select the setting contents with the SELECT **◄** buttons. Startup Screen Logo Security Lock Disable On The message is displayed. Off The message is not displayed. Note: Even when set to off, messages that are not in a black frame will be displayed.



Example of a display when the ASPECT button is pressed

Startup Screen

This is the selection of whether or not to display the logo screen at startup time.

Select item name "On Screen" and select the setting contents with the SELECT **I** buttons.

Logo Displays the logo. Blank Does not display the logo.

Note: When "Logo" is selected at the startup screen, the "PLUS" logo is displayed.

Security Lock

A password can be registered and the security lock set in order to prevent unauthorized use of the projector.

For instructions on using the security function, see "Protecting the Projector with the Security Lock" on E-32.

Select item name "Security Lock" and select the setting contents with the SELECT ◀► buttons.

Disable The security lock is disabled.

The projector can be operated without inputting the password. Enable....... The security lock is enabled.

The security lock is activated when the power is turned on, and the password must be input in order to operate the projector.

Language		L.	
On Screen	•	On	•
Background	•	Blue	•
Startup Screen	•	Logo	•
Security Lock	•	Disable	•

Language		L.	
On Screen	•	On	•
Background	•	Blue	•
Startup Screen	•	Logo	•
Security Lock	•	Disable	•



Select menu name "Info.".

See "Menu Operation Method" on Page E-35 for information about performing menu operations. The item name display will differ depending on the input signal. See "List of Item Names Offering Input Selection and Adjustments/Settings" on Page E-40.

Status

This displays information about the equipment.

Select item name "Status" and press the ENTER button. There is a change to the status display. Press the CANCEL button to return to the menu.

Display Contents:

Projector model, firmware version, and the internet home page address of PLUS Vision Corp.

Status	2
Factory Default	4
Lamp Timer Reset	ц.
Resolution	1024 X 768
Frequency	60 Hz, 78KHz
Lamp Timer	1000 h

U4 Series Version 00,00,00,00,00 www.plus-vision.com

Factory Default

This function returns the adjustments and settings of all the input sources to the standard factory default values.

Select item name "Factory Default" and press the ENTER button. There is a change to the display [Press "ENTER" to Factory Default Set].

Press the ENTER button to initialize.

To cancel, press the CANCEL button and there will be a return to the menu.

Items that are not set to the factory default:

Vertical Flip/Horizontal Flip, Language and Lamp Timer and Security.

Lamp Timer Reset

enu.

This function resets the lamp timer. Be sure to perform the reset operation when the lamp cartridge has been replaced.

Select item name "Lamp Timer Reset" and press the ENTER button.

There is a change to the display "Press "ENTER" to Lamp Timer Reset".

ess the ENTER button to initialize. cancel, press the CANCEL button and there will be a return to the

Status	له
Factory Default	2
Lamp Timer Reset	ft.
Resolution	1024 X 768
Frequency	60 Hz, 78KHz
Lamp Timer	1000 h

Press "ENTER" to FactoryDefault Set

Status	ų
Factory Default	ų
Lamp Timer Reset	ي. لي
Resolution	1024 X 768
Frequency	60 Hz, 78KHz
Lamp Timer	1000 h

281-8860

Press "ENTER" to LampTimer Reset

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PROIFCTOR LAMPS AND

Resolution / Frequency

This function displays the resolution and frequency of the detected input signal.

Status	4
Factory Default	4
Lamp Timer Reset	4
Resolution	1024 X 768
Frequency	60 Hz, 78KHz
Lamp Timer	1000 h

Lamp Timer

This displays the lamp timer.

This projector has an Eco mode function. The lamp life will differ between Normal mode and Eco mode.

Lamp Life

Use only in Normal mode: approx.1500 hours Use only in Eco mode: approx.2000 hours

* Lamp life will differ when there has been switching between the modes.

· When Lamp Life Has Been Reached

"Replace the Lamp Cartridge" is displayed on the screen for 10 seconds in a 1-minute interval.

Please replace the lamp with a new one.

See "Replacing the Lamp Cartridge" on Page E-58 for information about lamp cartridge replacement.

• When Over 100 Hours Have Elapsed Since Reaching Lamp Life (Including Eco Mode)

[Warning!! System Shutdown] is displayed for 10 seconds and the power is switched off. Pressing the STANDBY button under this condition will not switch on the power. Please replace the lamp cartridge.

Status	ц.
Factory Default	<u>ب</u>
Lamp Timer Reset	<u>ب</u>
Resolution	1024 X 768
Frequency	60 Hz, 78KHz
Lamp Timer	1000 h



When an Indicator is Lit or Blinking

The indicators on the projector's control panel lit or blink to notify of problems, as described below.

An indicator is also used to notify you of the currently set power mode (under normal circumstances). See "Power Cable Connections and Switching the Power On/Off" on page E-21.						
	STATUS indicator					
	Indicator status		What you should do			
STATUS STANDBY	When the power is on (Lit green) Standby (Lit amber) Lit red		time to replace the lamp. ace with a new lamp cartridge.			
STATUS STANDBY	Blinks amber for 60 seconds, then lit am- ber Lit red	The lamp has reached the end of its service life. The power will no longer turn on. The projector can be used for 100 hours after the lamp has reached the end of its service life. Replace with a new lamp cartridge.				
STATUS STANDBY	Lit red Blinks red (lit for 1 seconds/off for 1 seconds)		lamp cover is open. amp cover is not properly mounted. Mount it properly.			
STATUS STANDBY	Lit red Blinks red (lit for 0.5 seconds/off for 0.5 seconds)	 The temperature is abnormally high. The temperature protector has been activated. If the room temperature is high, move the projector to a cool place. If the projector's internal temperature is high, check the cooling fan's ventilation slots and clean them if they are clogged. When the temperature protector is activated, the power turns off and in some cases will not turn back on immediately. In this case wait about 90 seconds, then try again. 				
STATUS STANDBY	Lit amber Blinks red (lit for 0.5 seconds/off for 0.5 seconds)	The fan has stopped. Unplug the power cable and contact a store that sells the U4-232 for repairs.				
STANDBY	Blinks amber for 90 seconds, then lit amber When the lamp does not come on from the start		The lamp will not light. Wait at least 90 seconds, then turn the power back on. If the problem persists, unplug the power cord and contact a store that sells the U4-232 for repairs.			

STANDBY indicator

^{SEA}

Should an indicator be in a condition other than normal or flash at a rate other than the aforementioned, disconnect the power cable and contact your store of purchase.

Thermal Protector

en the temperature inside the projector becomes abnormally high, the STATUS indicator blinks red (0.5 seconds on/0.5 conds off), the STANDBY indicator is a steady red, and at the same time the temperature protector operates and switches off the power of the projector.

Should this happen, please take the following actions.

1. Switch off the power and disconnect the power plug from the wall outlet. MDC AND ACCESCORIES

2. Check the following matters and take the required measures. When the projector is being used in a location that has a high ambient temperature, set it up again in a cool location. Check the outflow and intake holes and clean them if they are obstructed.

3. Wait about 60 minutes until the temperature of the projector drops.

If after having performed the above matters, the problem still has not been solved, please contact your store of purchase.

Troubleshooting

Check the following matters before requesting servicing.

Problem	Check	Referen Page		
Power does not turn on	 Is the power cord plugged into a power outlet? Is the lamp cover properly mounted? Is the projector's temperature high? To protect the projector, the power cannot be turned on when the projector's temperature is abnormally high. 			
	 Has the lamp reached the end of its service life? Depending on the timing with which the power cord is plugged in (the power is turned on), it may happen that the STANDBY indicator (LED) does not light and the power does not turn on. This is not a malfunction. If this happens, unplug the power cord then plug it back in. 	E-55 _		
No image is produced	 Is a connected input selected? Is the cable properly connected to the input terminal? When a computer is connected, are signals being output from the computer? Does the signal being input have a frequency usable with this projector? Are the brightness and contrast adjusted to the minimum? Is the STATUS indicator lit a steady red or blinking red? When the component signal of the DVD player is connected with the DVI connector and the image is not output, is [Input Settings] of the DVI connector 			
Image is distorted	 For a analog RGB input, has the picture been properly adjusted? Is the projector properly installed? For trapezoidal (keystone) distortion, perform keystone adjustment. 			
Image is out of focus	 Is the lens properly focused? Are the screen and projector installed at the proper distance? Does the projection distance exceed the focusing range? Is there condensation on the lens, etc.? If the projector is moved from a cool storage area to a warm place and the power is turned on, condensation may form on the lens or internal optical parts. If this happens, wait until the condensation has evaporated before using the projector. 			
Image is not in proper posi- tion and is not displayed properly	 For a computer input, are the horizontal and vertical positions properly adjusted? Does the input signal have a compatible resolution and frequency? Check the computer's resolution. 	E-43 E-62		
Video image is crushed	 If the image is crushed in the horizontal or vertical direction or if it is not displayed over the entire screen, select a different aspect ratio. 	E-27		
Colors of the overall image are strange	When a component signal is being input, is the color space setting proper?For a composite input, is the hue properly adjusted?	E-45 E-42		
Characters flicker or colors are offset for analog RGB inputs	From the menu, select "Picture" and adjust the clock frequency and phase.	E-42, 4		
Cannot select the menu name	 Other than [Settings] and [Information], selection will not be possible unless a signal is being input to the projector and the image/picture is projected. 	_		
Remote control unit does of operate FXTOUP.com Sponsored by DM	 Are the remote control unit's batteries worn? Replace with new batteries. Is there an obstacle between the remote control unit and the projector's remote control signal sensor? Is the remote control unit outside of range? Are you pointing the remote control unit's transmitter towards the projector's remote control signal sensor? 	E-12 E-12 E-12 E-12		
STATUS indicator is lift red	remote control signal sensor?	-89		

Cleaning

- · Be certain to disconnect the power plug from the power outlet before cleaning.
- Do not spray or otherwise expose the projector, lens, or screen to volatile substances such as insecticides. Do not leave rubber
 or vinyl products in contact with the projector for long periods. Doing so could cause them to undergo qualitative changes or the
 coatings may peel, etc.

Cleaning a Soiled Projector Main Unit

- Wipe with a lint-free, soft, dry cloth.
 When very dirty, wipe with a cloth that has been moistened with a diluted neutral detergent, then finish with a dry cloth. If a chemically-treated cloth is going to be used, please follow any written warnings.
- Do not wipe with thinner, benzene, or other solvents. Doing so could cause them to undergo qualitative changes or the coatings may peel, etc.
- When removing the dust of the outflow and intake holes, use the brush attachment on a vacuum cleaner to clean out the dust. Avoid using the vacuum directly without attaching the adapter as well as the use of a nozzle adapter.
- · Do not scratch or otherwise hit the projector body with your nails or other hard object, since this will cause scratches.

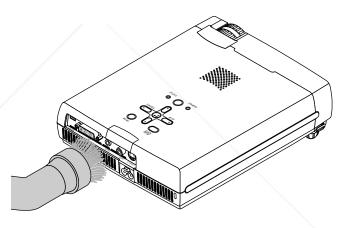
Dirty Lens

• Clean using the same method you would use to clean a camera lens: Use a commercial blower for camera use or cleaning paper for eye glasses. Be careful not to scratch the lens at this time.

Dust of the Intake and Outflow Holes

Dust that collects in the intake and outflow holes will obstruct the ventilation and cause the internal temperature to rise which could cause damage. Clean this area carefully. As a guideline, clean at least every 100 hours of usage.

- Switch off the power, check that the STANDBY indicator has changed to a steadily lit amber, then unplug the power cable.
- Clean out the holes from the outside using a vacuum cleaner. Use the brush adapter of the vacuum cleaner to do this. Avoid using the vacuum directly without attaching the adapter as well as the use of a nozzle adapter.



Cleaning the Inside of the Projector

Cleaning of the inside of the projector is required about once a year. Failure to clean over a long period while dust has collected inside the projector could cause a fire or breakdown. Do not clean the inside of the projector by yourself. Please be sure to contact your dealer.



Replacing the Lamp Cartridge

 The lamp that is used as a light source in the projector has a limited service life. The rated service life of the lamp is about 1500 hours (when used in normal mode only). This could be shortened depending on conditions of use and other factors.

Note that lamp life will be extended when the projector is often used in Eco mode. (The rated service life of the lamp means the average value of lamp life for lamps that have been manufactured over a long period, and it is derived from test conditions at this company.)

- When the life of the lamp is exceeded, the STATUS indicator lights a steady red and the message [Replace the Lamp Cartridge] is displayed on the screen. When this occurs, it is time to replace the lamp cartridge. Please make the replacement following the procedure below.
- If the projector is used another 100 hours after the lamp's service life is reached, the power is set to the standby mode and no longer turns on.
- Contact a store that sells the U4-232 for a replacement lamp. Indicate you need a U4-150 replacement lamp for the U4-232 (order code 28-061).

- Replacement of the lamp cartridge is performed after switching off the power, waiting for the cooling fan to stop, disconnecting the power plug from the power outlet, and then leaving the projector for about 60 minutes before replacement is started. Replacement of the lamp cartridge during operation or immediately after operation stops will cause burns because of the high temperature.
- Do not remove any screws other than those specified.
- Do not touch the lamp with bare hands. Doing so could shorten the life of the lamp.
- If lamp has reached the end of its usable life, the lamp bulb may shatter. When this happens, an explosive sound can be heard and pieces of glass may be scattered in the lamp cartridge. Do not touch them as the pieces of glass may cause injury. If this happens, contact your dealer or the store the projector was purchased.



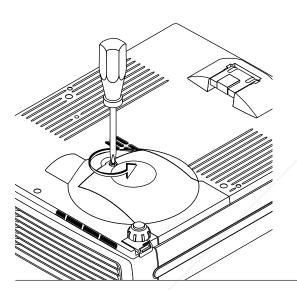
Preparations: Turning the projector upside-down on top of a soft cloth, etc., so that it does not get scratched makes it easier to replace the lamp cartridge. Turn the projector right-side up after replacing the lamp cartridge.

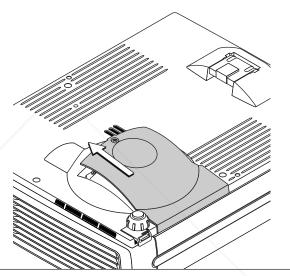
1 Unplug the power cord.

2 Turn the projector upside-down.

3 Remove the lamp cover.

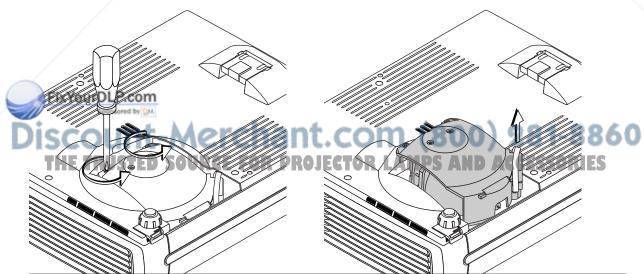
- (1) Turn the lamp cover's set screw counterclockwise and loosen until the screw turns freely. (The screw does not come off.)
- (2) Open the lamp cover a little, then pull it in the direction of the arrow and remove it.





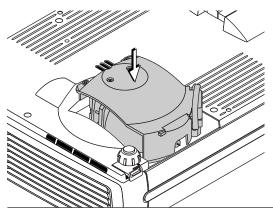
4 Remove the lamp cartridge.

- (1) Turn the lamp cartridge's two set screws counterclockwise and loosen them until the screws turn freely.
 (The screws do not come off.)
- (2) Grasp the lamp cartridge's handle and pull upward to remove the lamp cartridge.

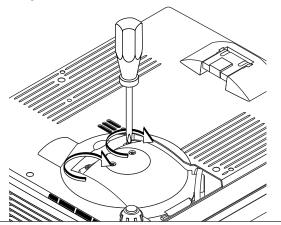


Mount the new lamp cartridge.

- (1) Place the lamp cartridge with its socket facing to the right and push it in slowly.
 - (Line it up with the screw holes in the projector.)

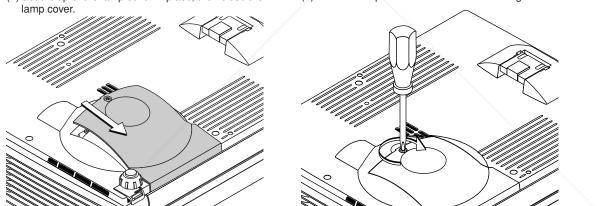


(2) Turn the two lamp cartridge screws clockwise to tighten them.



6 Mount the lamp cover.

- (1) Set the tip of the lamp cover in place, then close the
- (2) Turn the lamp cover's screw clockwise to tighten it.



Reset the Lamp Timer.

Connect the power cable, switch on the power, and then reset. Select [Info.] → [Lamp Timer Reset] on the menu and press the ENTER button. There is a change to the initialization verification display. Press the ENTER button again. See "Lamp Timer Reset" on Page E-53.

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ount-Merchant.com (800) 281-8860 SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Note:

After reaching the lamp service life, if the lamp is used for more than another 100 hours, it will not be possible to switch on the power. Should this happen, while the projector is in the standby mode, simultaneously holding down the projector's SOURCE button and AUTO button for more than 5 seconds will clear the lamp timer. Checking that the STATUS indicator is out will show that the lamp timer has been cleared. Contact a store that sells the U4-232 for a replacement lamp. Indicate you need a U4-150 replacement lamp for the U4-232 (order code 28-061).

Specifications

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Model
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U4-232
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Optical					
Method of projection :	DLP™ (single chip DMD)				
DMD	0.7 inches 1024×768 dots				
Lamp	150 W high pressure mercury lamp				
Projection lens :	Manual zoom (\times 1.2), Manual focus F = 2.6 – 2.9, f = 27.5 – 33.0 mm				
Image size	Minimum 26 inch (at projection distance of 1.20 m / 3.9 feet telephoto)				
	Maximum 300 inch (at projection distance of 11.55 m / 37.89 feet wide)				
Light Output	1800 lumens				
Contrast Ratio	2000:1 (Full on/off)				
Electrical					
Inputs	Video (NTSC3.58/NTSC4.43/PAL/PAL-N/PAL-M/PAL60/SECAM)				
	RGB (Horizontal :15 to 80 kHz, Vertical 50 to 85 Hz)				
Color Reproduction	Full color (16,770,000 colors)				
Resolution	VGA (640 $ imes$ 480) expansion/true, S-VGA (800 $ imes$ 600) expansion/true				
	XGA (1024 $ imes$ 768) true, S-XGA (1280 $ imes$ 1024) compression				
Input Current	2.4 A				
Power Requirement	100 - 240 V AC, 50/60 Hz				
Power Consumption	240 watts (170 watts in eco mode)				
Mechanical					
Dimensions Excluding Stand	190 mm (W)×53 mm (H)×242 mm (D)				
	7.5 in.(W)×2.1 in.(H)×9.5 in.(D)				
Weight	Approximately 1.5 kg / 3.3 lbs				
Operational Temperatures	Data projector: 5° to 35°C (41° to 95°F), 30 to 85% humidity				

· Specifications and design are subject to change without notice.



Table of Supported Frequencies

The projector automatically identifies the signal input from the computer and selects the optimum resolution as shown on the table below.

Manual adjustments may be required for some input signals. See "Picture Adj. / Fine Picture / H Position / V Position" on page E-42, 43.

Signal	Resolution	Frequ	Frequency		0	Divited	A
Signal	Resolution	Horizonral (kHz)	Vertical (Hz)	Video	Component	Digital	Analog
VIDEO(NTSC)	_	15.734	60.0	0	0	-	-
VIDEO(PAL/SECAM)	_	15.625	50.0	0	0	_	-
VESA	640 × 350	31.5	70.1	-	-	0	0
	640 × 350	37.9	85.1	-	_	0	0
	720 × 350	31.5	70.0	-	-	0	0
	640 × 400	31.5	70.1	-	-	0	0
	640 × 400	37.9	85.1	-	-	0	0
	720 × 400	31.5	70.0	-	-	0	0
	720 × 400	37.9	85.0	-	-	0	0
	640 × 480	31.5	60.0	-	-	0	0
	640 × 480	37.9	72.8	-	-	0	0
	640 × 480	37.5	75.0	-	-	0	0
	640 × 480	43.3	85.0	-	-	0	0
	800 × 600	35.2	56.3	-	-	0	0
	800 × 600	37.9	60.3	-	-	0	0
	800 × 600	46.9	75.0	-	-	0	0
	800 × 600	48.1	72.2	-	-	0	0
	800 × 600	53.7	85.1	-	-	0	0
	1024 × 768	48.4	60.0	-	-	0	0
	1024 × 768	56.5	70.1	-	-	0	0
	1024 × 768	60.0	75.0	<u> </u>	-	0	0
	1024 × 768	68.7	85.0	- /	_	0	0
	1280 × 1024	64.0	60.0	-	-	0	0
Apple Macintosh	640 × 480	35.0	66.7	-		0	0
	823 × 624	49.7	74.5	-	_	0	0
	1024 × 768	60.2	74.9	-	- /	0	0
	1152 × 870	68.7	75.1	-	_	$\setminus O$	0
HDTV (1080i)	1920 × 1080	33.8	60.0	-	0	-	-
	1920 × 1080	28.1	50.0	-	0	-	-
(720p)	1280 × 720	45.0	60.0	-	0	-	-
SDTV (576p)	720 × 576	31.3	50.0	-	0	-	-
(480p)	720 × 480	31.5	60.0	-	0	-	-

* The projector does not support the ADC connector on Apple Macintosh.

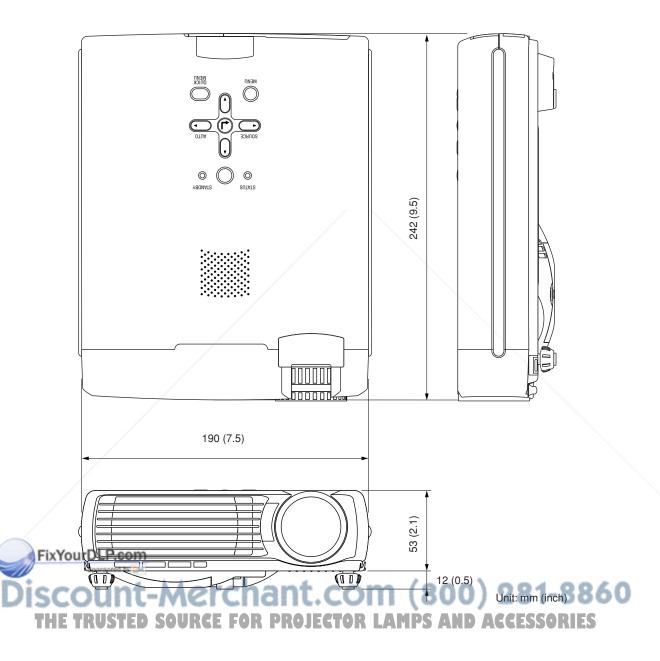
: Supported frequency : Not supported frequency

0

The display resolution is 1024×768 dots. When displaying a signal with resolutions other than 1024×768 dots such as 1280×1024 , sizes of characters or lines may be uneven.



Cabinet Dimensions



PLUS Vision Corp.

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AMPS AND ACCESSORIES



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