

PLUS

DATA PROJECTOR

U4-136/U4-131

U4-112/U4-111

User's Manual

Touchboards

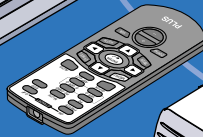
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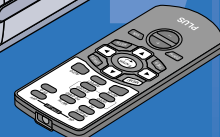
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(U4-131/U4-111)



(U4-136/U4-112)



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IMPORTANT

- * DLP™ (Digital Light Processing) and DMD (Digital Micromirror Device) are registered trademarks of Texas Instruments Incorporated (U.S.A.).
- * DMD is an ultra-precise part developed by Texas Instruments (U.S.A.) which takes the place of liquid crystal (in the projector).
- * VGA and XGA are trademarks or registered trademarks of International Business Machines Corporation (U.S.A.).
- * S-VGA is a registered trademark of Video Electronics Standards Association.
- * Microsoft, Windows, and PowerPoint are registered trademarks of Microsoft Corporation (U.S.A. and other countries).
- * Macintosh is a trademark of Apple Computer Inc. (U.S.A.).
- * TMD5 is a trademark of Silicon Image, Inc.

Note that even in the absence of explanatory notes, serious attention is paid to the trademarks of the various companies and to the product trademarks.

Applicable Projector: U4-136/U4-112

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

U.S. Responsible Party:	PLUS Vision Corp. of America
Address:	9610 SW Sunshine Court Suite 800 Beaverton, OR 97005
Tel. No.:	(503) 748 8700

Type of Product:	Projector
Equipment Classification:	Class B Peripheral
Models:	U4-136 and U4-112

*We hereby declare that the equipment specified above
conforms to the technical standards as specified in the FCC Rules.*



RF Interference

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

DOC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

IMPORTANT SAFETY INFORMATION

Precautions

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

This User's Manual is applicable to the following models: U4-136, U4-131, U4-112, and U4-111.

Depending on your projector model, the resolution may differ and the optical zoom function or PC Card Viewer function may or may not be included. This manual describes model U4-136 (which has a compliment of all the functions). Please check the resolution and inclusion of functions with table below.

Model	Resolution (Full Functions)	Optical Zoom Function	PC Card Viewer
U4-136	1024×768 (XGA)	○	○
U4-131	1024×768 (XGA)	—	—
U4-112	800×600 (S-VGA)	○	—
U4-111	800×600 (S-VGA)	—	—

○: Function included —: Function not included

Applicable projectors will be indicated by **Applicable Projector: U4-XXX** placed at the description location.



CAUTION

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 COMPONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED PLUS SERVICE PERSONNEL.

Applicable Projector: U4-131/U4-111

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 Regulations.

IMPORTANT SAFETY INFORMATION

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.

Carrying around

When carrying 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.

CAUTION – HOT!

The area around the exhaust vents is hot during and immediately after image projection.

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.

■ **Built-in viewer allows presentations to be made with the stand alone projector**

Applicable Projector: U4-136

The built-in viewer permits presentations to be made without a personal computer using presentation materials (created with a personal computer) that have been recorded to a compact flash card, or memory card playback* of pictures taken with a digital camera, etc.

(*Some memory cards cannot be played back.)

■ **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.

A presentation timer that supports presentations and a startup logo creation function that permits unhindered logo creation have also been added.

■ **High contrast ration of 1500:1**

Use of a new generation of DMD devices has given birth to an amazing 1500:1 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.

■ **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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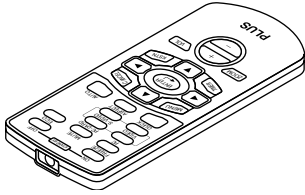
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Checking the Supplied Accessories

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

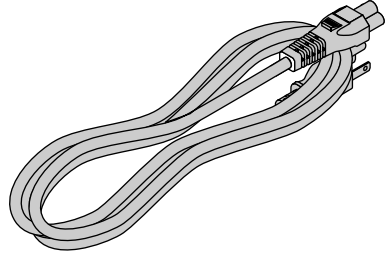
Remote control (includes one button battery) [1]

This controls the projector. Please remove the transportation insulation sheet at time of purchase. (See Page E-12.)



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

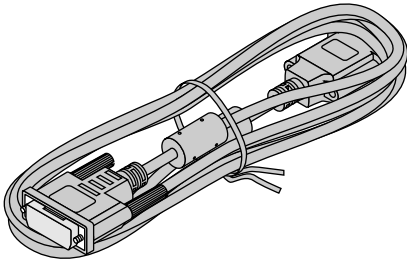
This power cable supplies power to the unit. See Page E-24 about connections.



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-19 about connections.

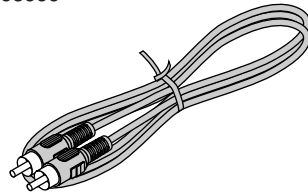
No. 776702000



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-21.

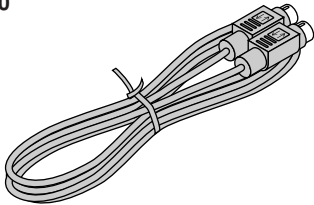
No. 771703000



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-21.

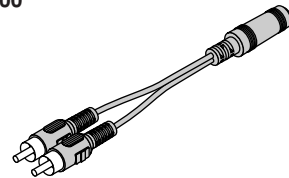
No. 771709000



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-23.

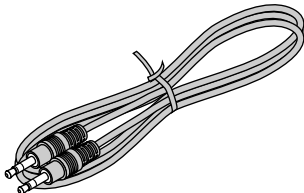
No. 770704000



Audio cable (Mini plug, 2 m / 6.6 feet) [1]

This cable is used with equipment that has phono type audio jacks. Connections are described on Page E-23.

No. 769710000

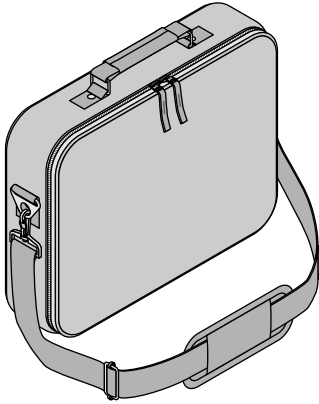


Checking the Supplied Accessories

Carrying case (for projector and accessories) [1]

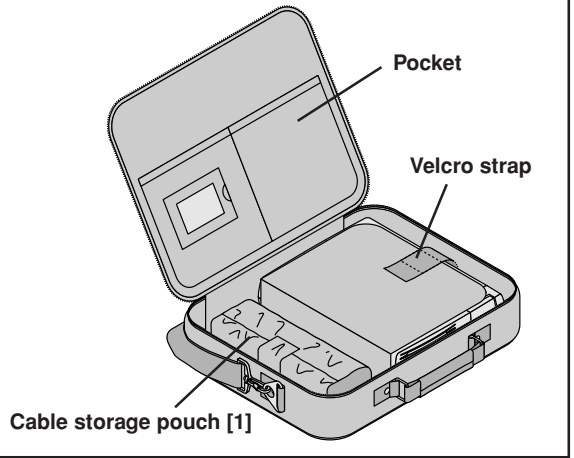
This is a case designed for storing the projector and its accessories.

Use this carrying case when storing or moving the projector.



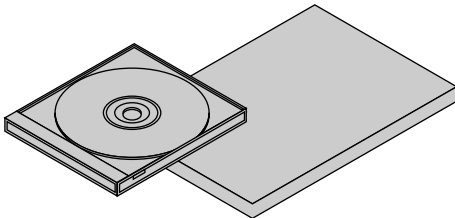
HOW TO PUT THE PROJECTOR INTO THE CARRYING CASE

Close the lens shutter or lens cap before putting the projector in its case, then fasten the projector in place with the Velcro belt. Place the accessories in the storage pocket.



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

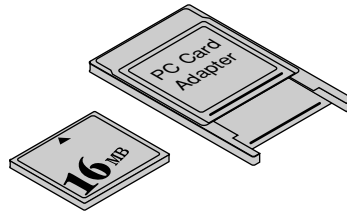
User's Manual (Simplified Edition) [1]



Applicable Projector: U4-136

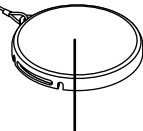
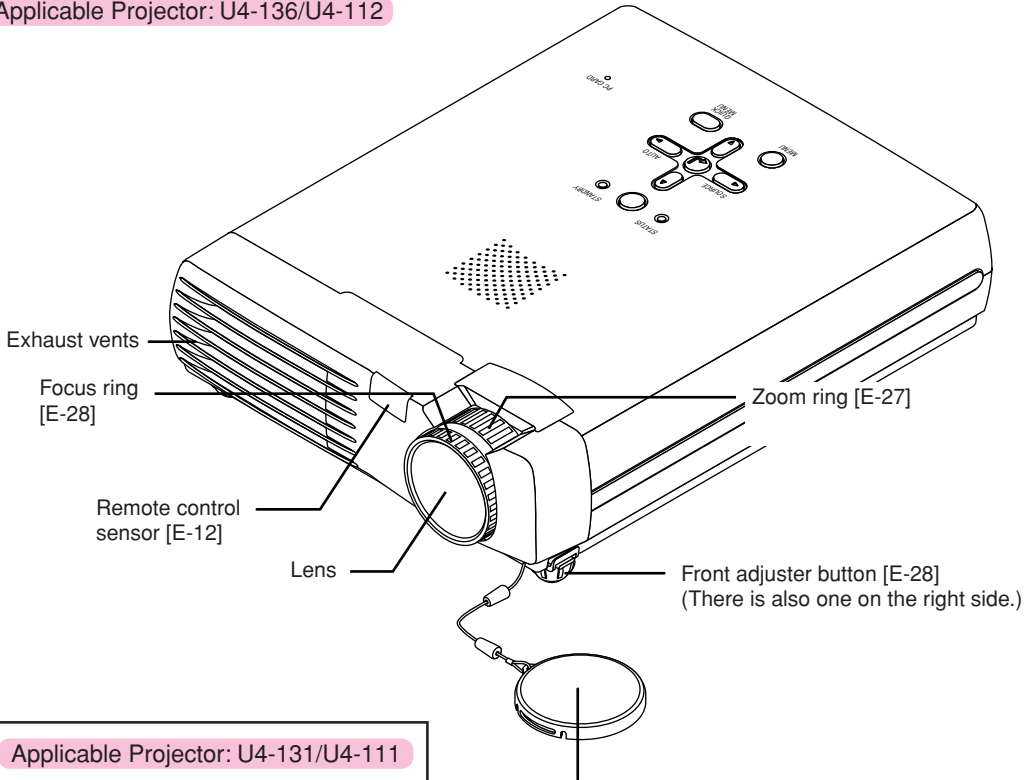
PC Card Adapter [1]

CompactFlash Card [1]



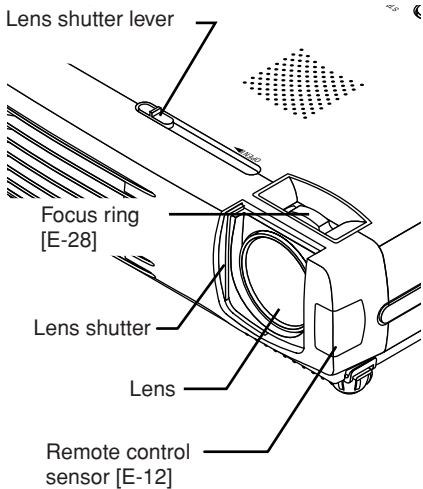
Names of the Main Unit Parts

Applicable Projector: U4-136/U4-112



Lens cap
Remove before use. Attach the lens cap after use to protect the lens.

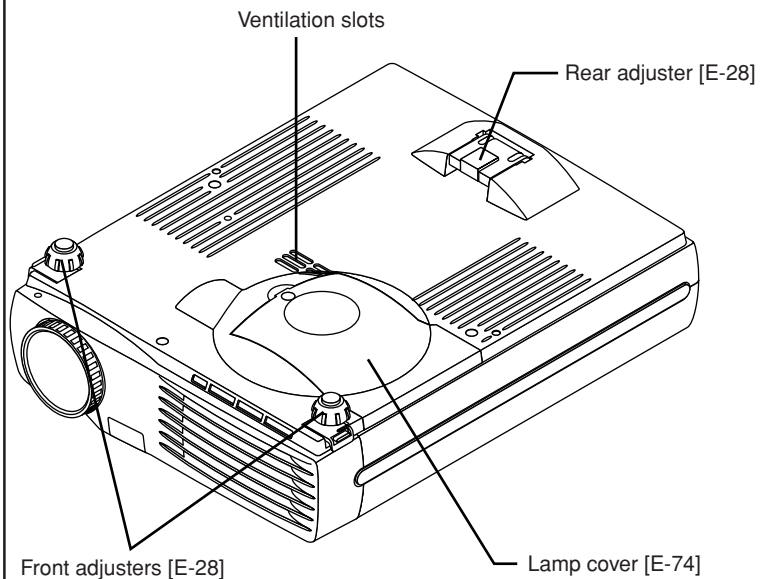
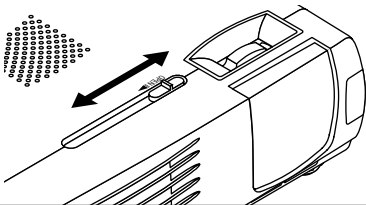
Applicable Projector: U4-131/U4-111



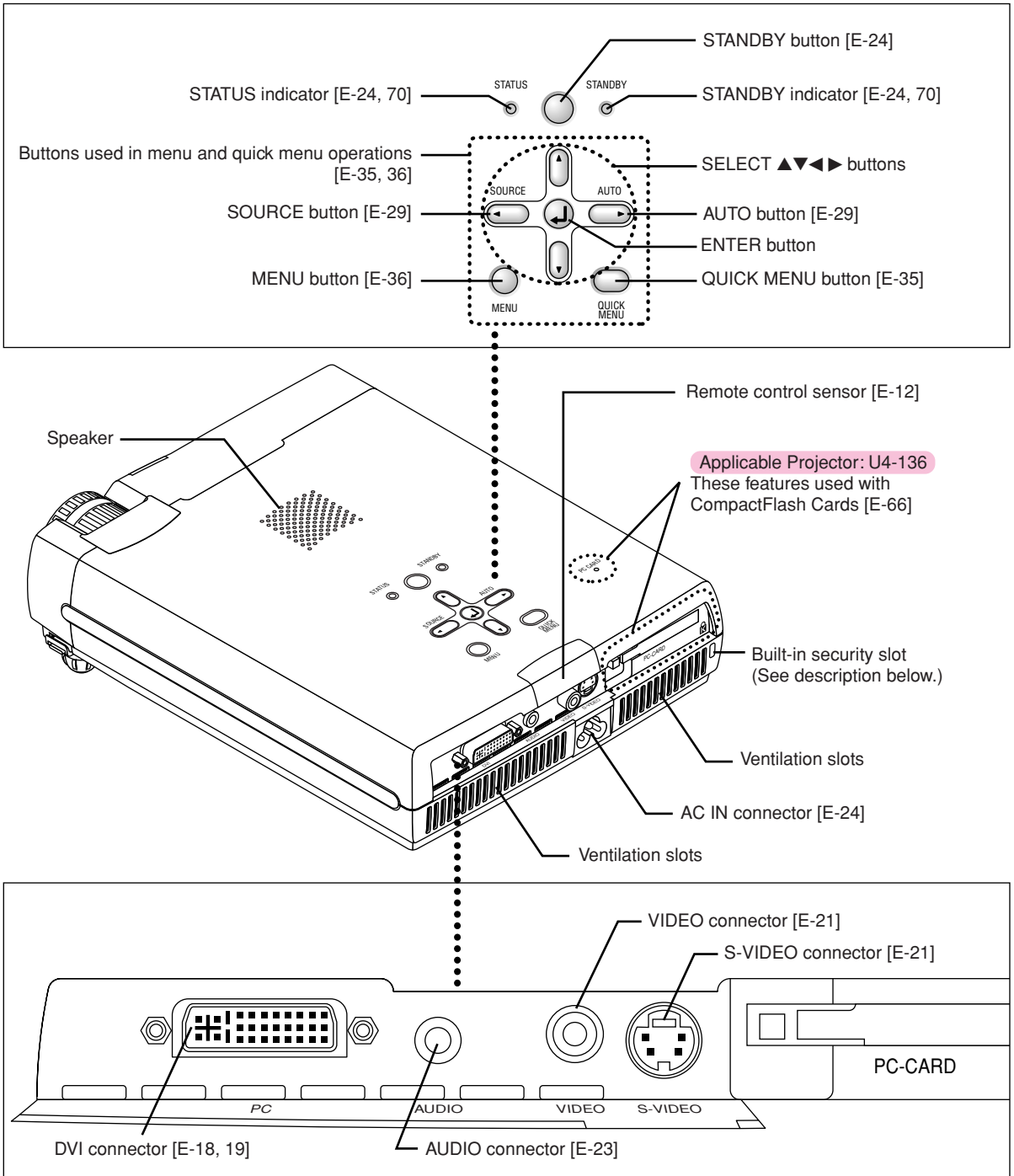
Opening the lens shutter

Slide the lens shutter lever to the left. The lens shutter opens.

When the projector is not in use, slide the lever to the right to close the lens shutter and protect the lens.



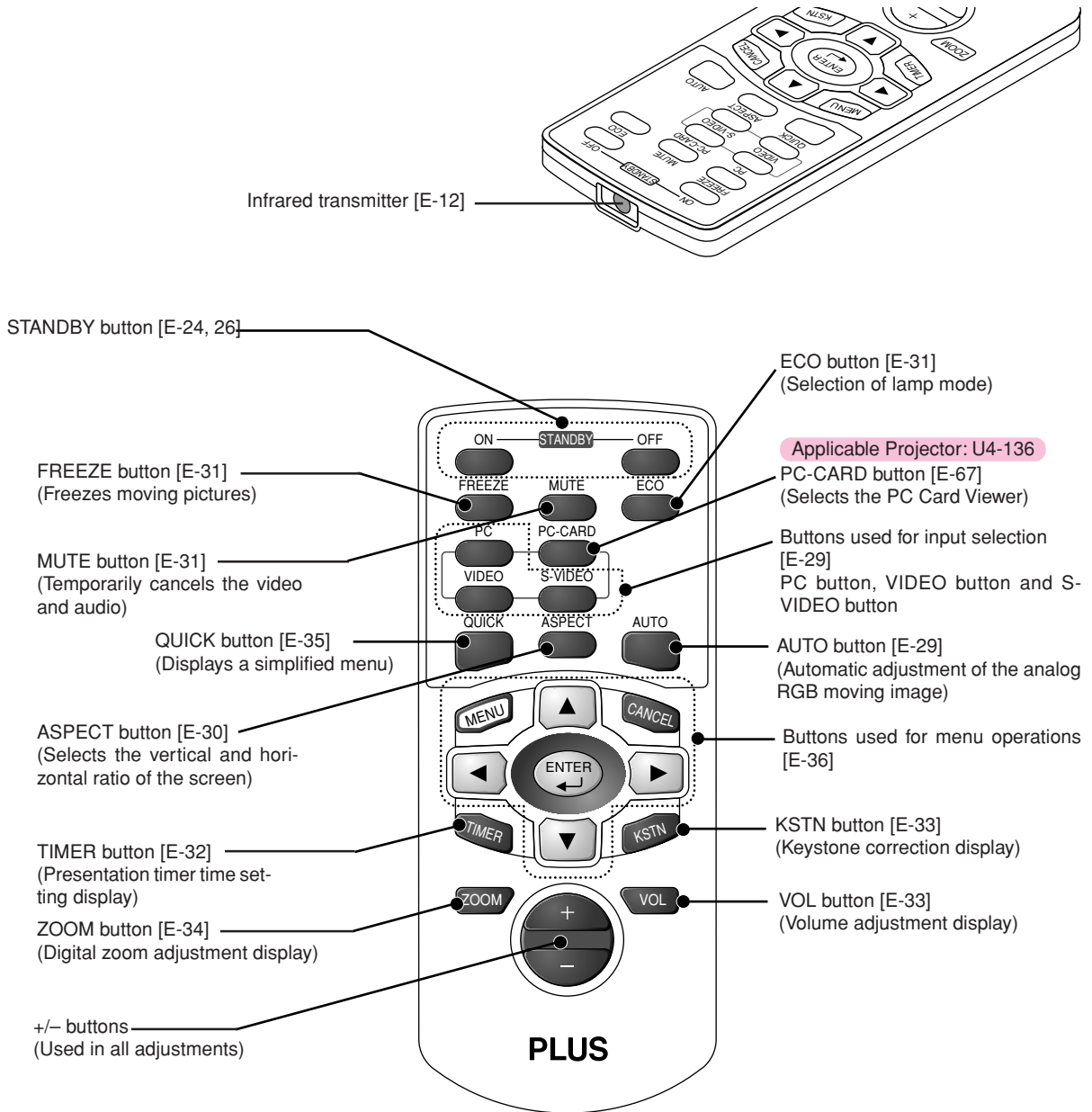
Names of the Main Unit Parts



Built-in Security Slot

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

Names of the Remote Control Parts



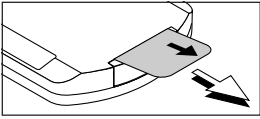
Precautions

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 batteries out of the reach of children. If a battery is swallowed, promptly obtain the medical care of a doctor.
- * Remove the batteries 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.

Preparing the Remote Control

Button Battery Replacement

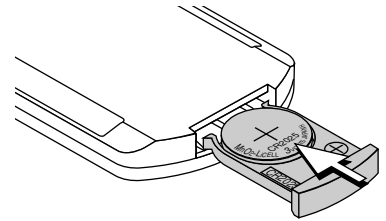
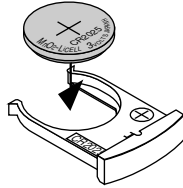
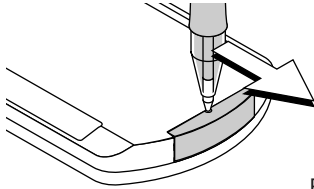


Using the remote control for the first time

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

- 1** Insert the tip of a ballpoint pen or some other pointed object into the hole of the battery holder, then pull out to open.
- 2** Remove the old battery and install a new button battery with (+) side facing upward in the battery holder.
- 3** Insert the battery holder into the remote control and push in until the battery holder closes with a “click” sound.



Purchase a CR2025 type battery for replacement.

CAUTION

Danger of explosion if battery is incorrectly replaced.

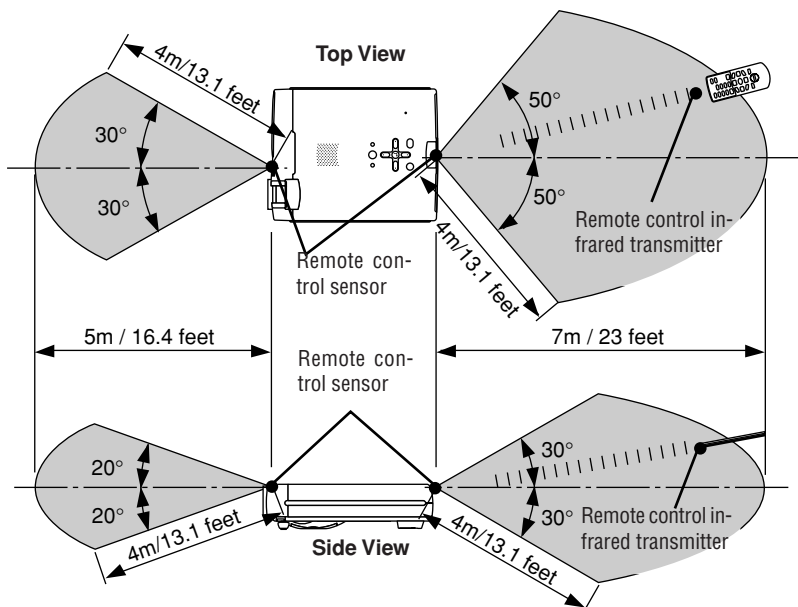
Replace only with the same or equivalent type (CR2025) recommended by the manufacturer.

Dispose of used batteries according to your local regulations.

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.



* The position of the remote control sensor at the front of the main unit will differ depending on the projector model.

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-18.

When making connections with the video equipment's video connector or an S-video connector, see “Connections with Composite Signals” on Page E-21.

When making connections with the video equipment's YCbCr connector or YPbPr connector, see “Connections with Component Signals” on Page E-22.

When playing the audio through the built-in speaker of the projector, see “Connections with the AUDIO Jack” on Page E-23.

3 Opening the lens shutter or lens cap

4 Connecting the power cable and switching on the power

See “Operating” on Page E-24.
See “Finishing” on Page E-26.

5 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-25.

6 Switching on the power of the personal computer and video equipment

7 Properly adjust the projection image to the screen

See “Adjustment of the Projection Screen” on Page E-27.

8 Selecting input equipment

See “Input Selection” on Page E-29.

9 Adjust the screen or video image

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

About DLP projectors

Though 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.

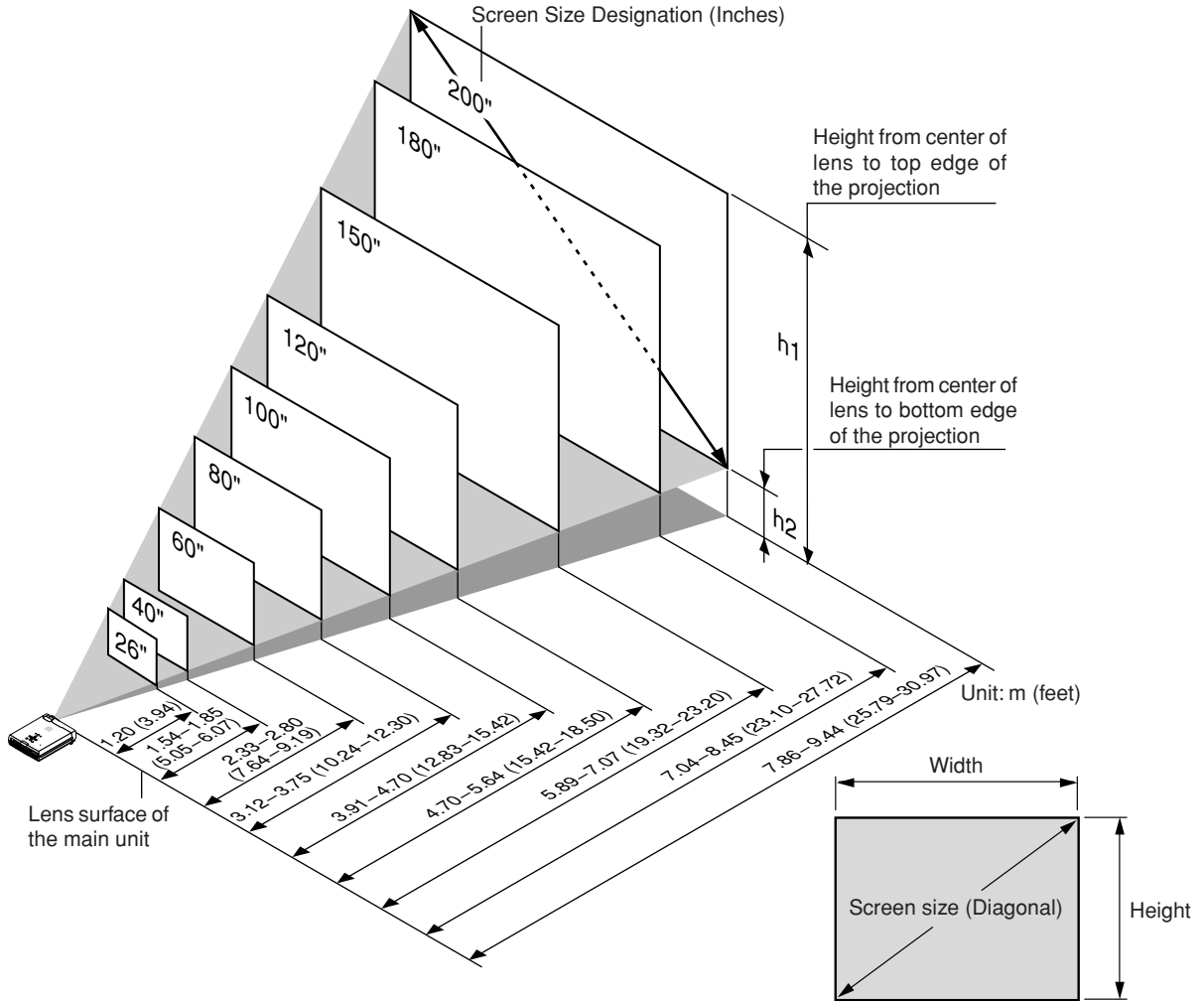
Note:

- * 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

U4-136 Screen Size and Projection Distance

- 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 (3.94 feet) to 9.44 m (30.97 feet). The projector should be placed within this range.



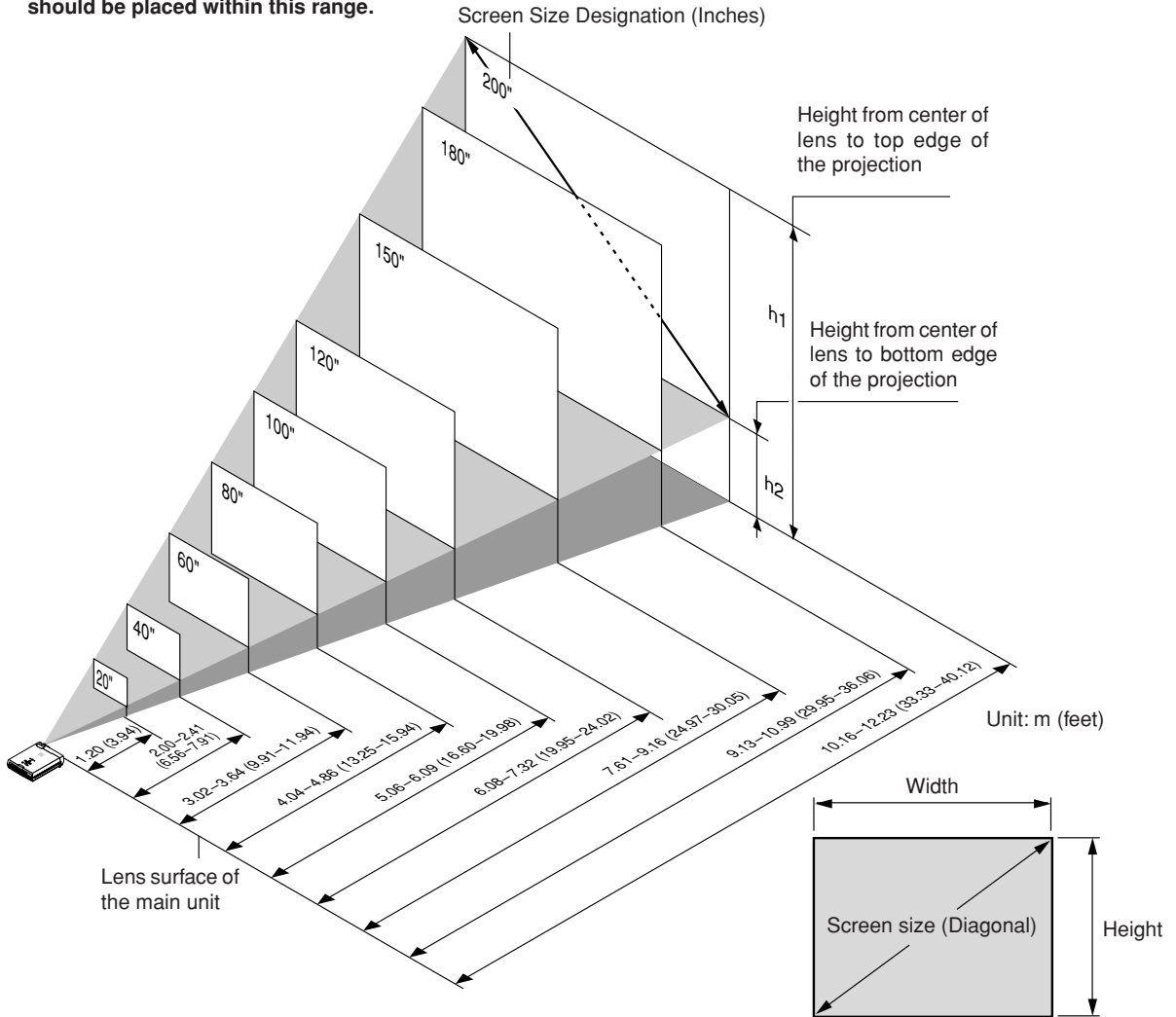
Screen Size Designation (Inches)	Screen Size Width x Height		Projection Distance		Height h_1		Height h_2	
	(m)	(feet)	(m)	(feet)	(m)	(feet)	(m)	(feet)
26"	0.53 × 0.40	1.74 × 1.31	— — 1.20	— — 3.94	0.47	1.54	0.07	0.23
40"	0.81 × 0.61	2.66 × 2.00	1.54 — 1.85	5.05 — 6.07	0.72	2.36	0.11	0.36
60"	1.22 × 0.91	4.00 × 2.99	2.33 — 2.80	7.64 — 9.19	1.07	3.51	0.16	0.52
80"	1.63 × 1.22	5.35 × 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
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
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
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 × 3.05	13.32 × 10.00	7.86 — 9.44	25.79 — 30.97	3.57	11.71	0.52	1.71

* There is a tolerance of $\pm 5\%$ 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).

U4-112 Screen Size and Projection Distance

- 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 (3.94 feet) to 12.23 m (40.12 feet). The projector should be placed within this range.



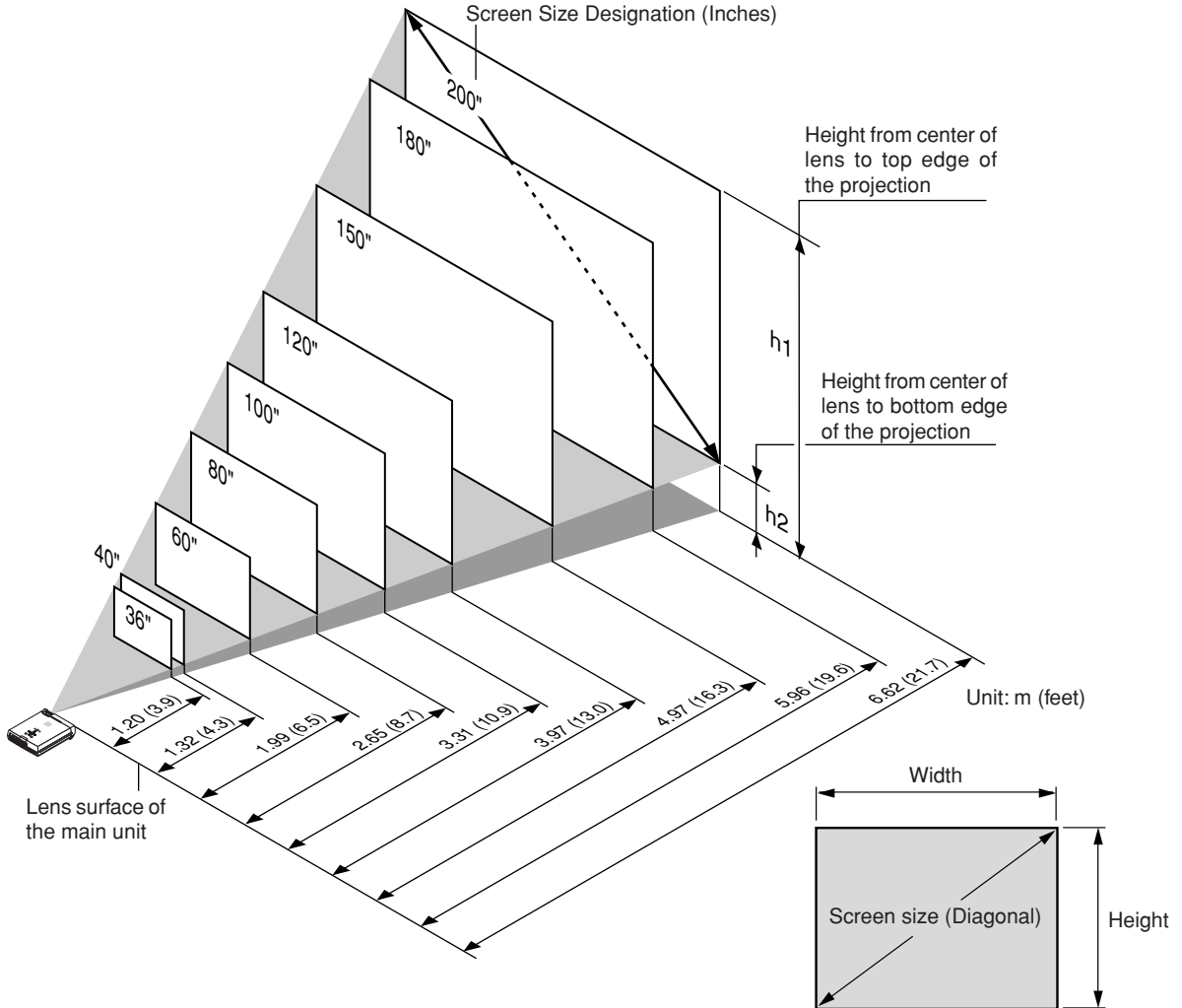
Screen Size Designation (Inches)	Screen Size Width x Height		Projection Distance		Height h1		Height h2	
	(m)	(feet)	(m)	(feet)	(m)	(feet)	(m)	(feet)
20"	0.41 × 0.31	1.35 × 1.02	— — 1.20	— — 3.94	0.42	1.38	0.11	0.36
40"	0.81 × 0.61	2.66 × 2.00	2.00 — 2.41	6.56 — 7.91	0.83	2.72	0.22	0.72
60"	1.22 × 0.91	4.00 × 2.99	3.02 — 3.64	9.91 — 11.94	1.25	4.10	0.34	1.12
80"	1.63 × 1.22	5.35 × 4.00	4.04 — 4.86	13.25 — 15.94	1.67	5.48	0.45	1.48
100"	2.03 × 1.52	6.66 × 4.99	5.06 — 6.09	16.60 — 19.98	2.08	6.82	0.56	1.84
120"	2.44 × 1.83	8.00 × 6.00	6.08 — 7.32	19.95 — 24.02	2.50	8.20	0.67	2.20
150"	3.05 × 2.29	10.00 × 7.51	7.61 — 9.16	24.97 — 30.05	3.12	10.24	0.84	2.76
180"	3.66 × 2.74	12.00 × 8.99	9.13 — 10.99	29.95 — 36.06	3.75	12.30	1.01	3.31
200"	4.06 × 3.05	13.32 × 10.00	10.16 — 12.23	33.33 — 40.12	4.17	13.68	1.12	3.67

* 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).

U4-131 Screen Size and Projection Distance

- 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 (3.94 feet) to 6.62 m (21.72 feet). The projector should be placed within this range.



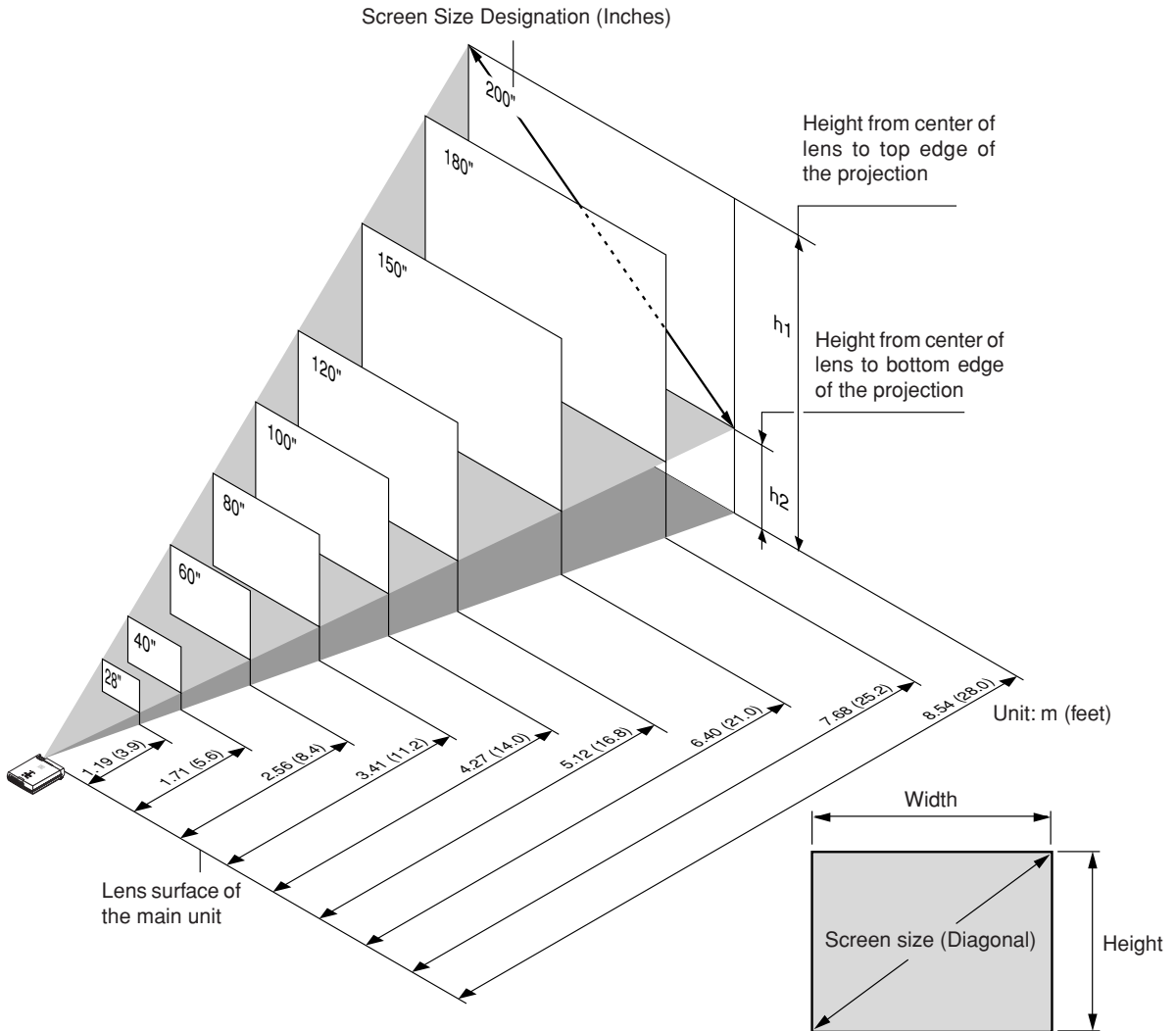
Screen Size Designation (Inches)	Screen Size Width x Height		Projection Distance		Height h1		Height h2	
	(m)	(feet)	(m)	(feet)	(m)	(feet)	(m)	(feet)
36"	0.74 × 0.55	2.43 × 1.80	1.20	3.94	0.65	2.13	0.10	0.33
40"	0.81 × 0.61	2.66 × 2.00	1.32	4.33	0.72	2.36	0.11	0.36
60"	1.22 × 0.91	4.00 × 2.99	1.99	6.53	1.07	3.51	0.16	0.52
80"	1.63 × 1.22	5.35 × 4.00	2.65	8.69	1.43	4.69	0.21	0.69
100"	2.03 × 1.52	6.66 × 4.99	3.31	10.86	1.79	5.87	0.26	0.85
120"	2.44 × 1.83	8.00 × 6.00	3.97	13.02	2.14	7.02	0.31	1.02
150"	3.05 × 2.29	10.00 × 7.51	4.97	16.31	2.68	8.79	0.39	1.28
180"	3.66 × 2.74	12.00 × 8.99	5.96	19.55	3.21	10.53	0.47	1.54
200"	4.06 × 3.05	13.32 × 10.00	6.62	21.72	3.57	11.71	0.52	1.71

* 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).

U4-111 Screen Size and Projection Distance

- 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 1.19 m (3.90 feet) to 8.54 m (28.02 feet). The projector should be placed within this range.



Screen Size Designation (Inches)	Screen Size Width x Height		Projection Distance		Height h1		Height h2	
	(m)	(feet)	(m)	(feet)	(m)	(feet)	(m)	(feet)
28"	0.57 × 0.43	1.87 × 1.41	1.19	3.90	0.58	1.90	0.16	0.52
40"	0.81 × 0.61	2.66 × 2.00	1.71	5.61	0.83	2.72	0.22	0.72
60"	1.22 × 0.91	4.00 × 2.99	2.56	8.40	1.25	4.10	0.34	1.12
80"	1.63 × 1.22	5.35 × 4.00	3.41	11.19	1.67	5.48	0.45	1.48
100"	2.03 × 1.52	6.66 × 4.99	4.27	14.01	2.08	6.82	0.56	1.84
120"	2.44 × 1.83	8.00 × 6.00	5.12	16.80	2.50	8.20	0.67	2.20
150"	3.05 × 2.29	10.00 × 7.51	6.40	21.00	3.12	10.24	0.84	2.76
180"	3.66 × 2.74	12.00 × 8.99	7.68	25.20	3.75	12.30	1.01	3.31
200"	4.06 × 3.05	13.32 × 10.00	8.54	28.02	4.17	13.68	1.12	3.67

* 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.

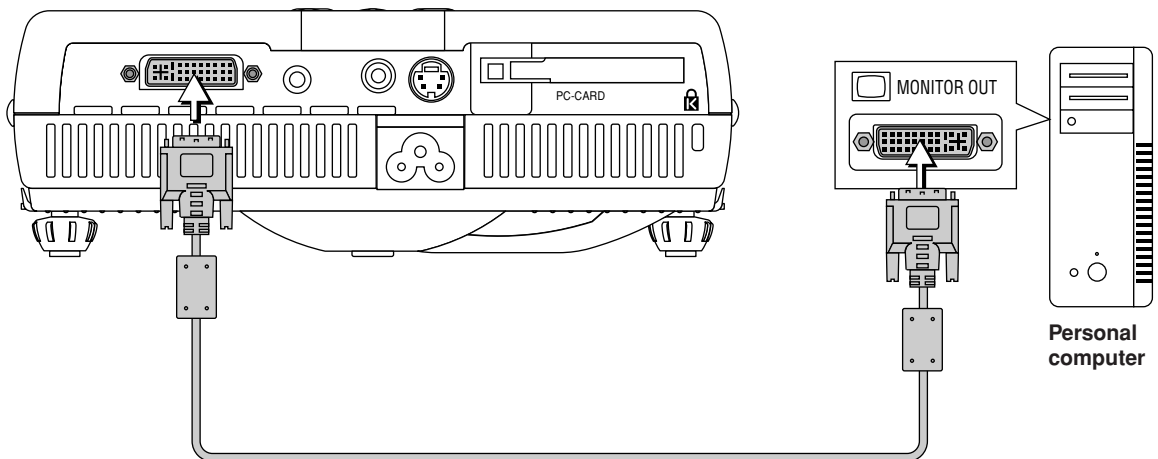
Connections with Personal Computer

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

- A suitable resolution for the U4-111/U4-112 is 800 × 600 dots (S-VGA) and the maximum displayable resolution is XGA (1024 × 768 dots).
- A suitable resolution for the U4-131/U4-136 is 1024 × 768 dots (XGA) and the maximum displayable resolution is S-XGA (1280 × 1024 dots).
Make changes to a displayable resolution at the personal computer side. Please check with “Table of Supported Frequency” on Page E-77.
- 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)

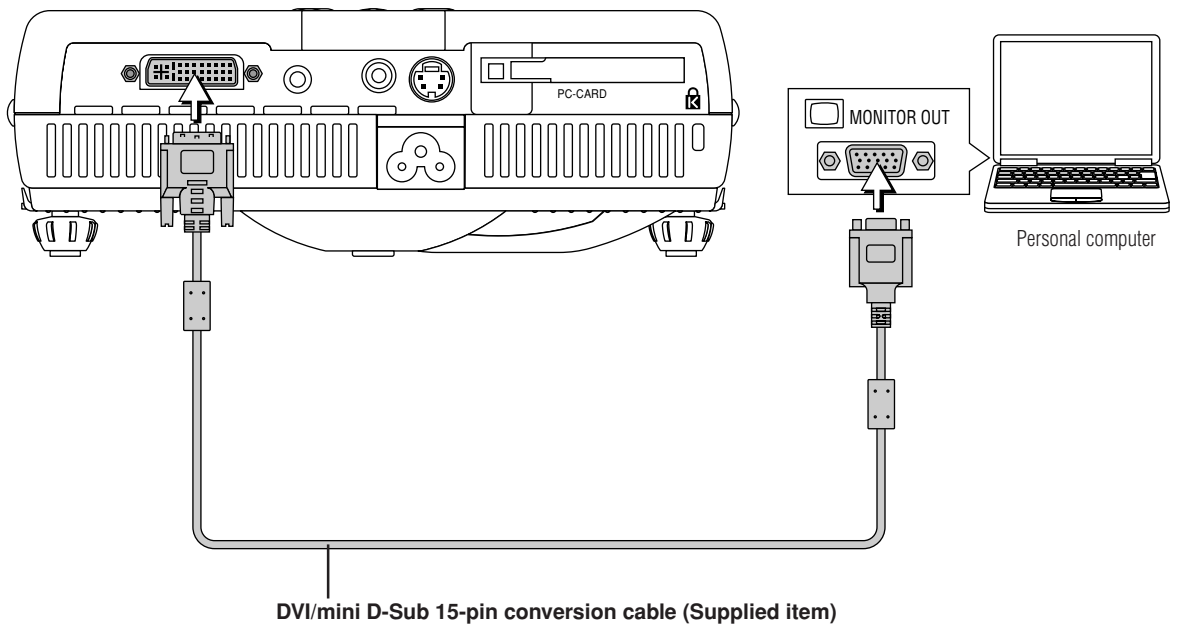
Note

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

Connecting Personal Computers and Video Equipment

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 "Analog RGB" using the menu sequence of [Setup] → [Input Format] → [PC]. See "Input Format" on Page E-50.



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 on-line 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.

- 1** 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.
REFERENCE: When "Resolution" or "Frequency" is not displayed under "Info." on the menu of the projector, this means that the external output signal is not being output from the personal computer. See "Resolution/Frequency" on Page E-59.

- 2** Should a sign not be output from the notebook computer, please try the operation described below.
For an IBM PC/AT compatible computer, press the [Fn] key plus any one of the [F1] to [F12] keys. (See the table below.)

Manufacturer	Model	Key
akia	All computers	Fn + F2
COMPAQ	All computers	Fn + F4
DELL	All computers	Fn + F8
EPSON	All computers	Fn + F8
FUJITSU	All computers	Fn + F10
GATEWAY	All computers	Fn + F3
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
TOSHIBA	All computers	Fn + F5
Victor	All computers	Fn + F10

Note: Table information is current to September 2002.

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.

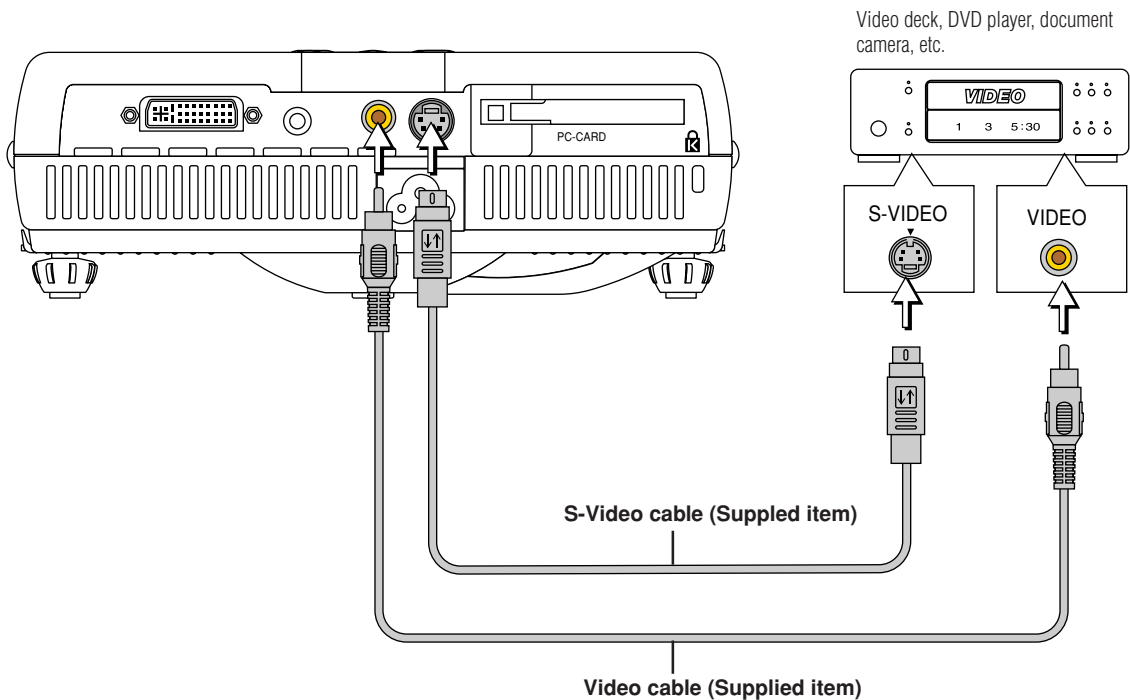
Connections with Composite Signals

Video Equipment with VIDEO Connectors

- 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] → [Input Format] → [Video].
See “Input Format” on Page E-50.

Video Equipment with S-VIDEO Connectors

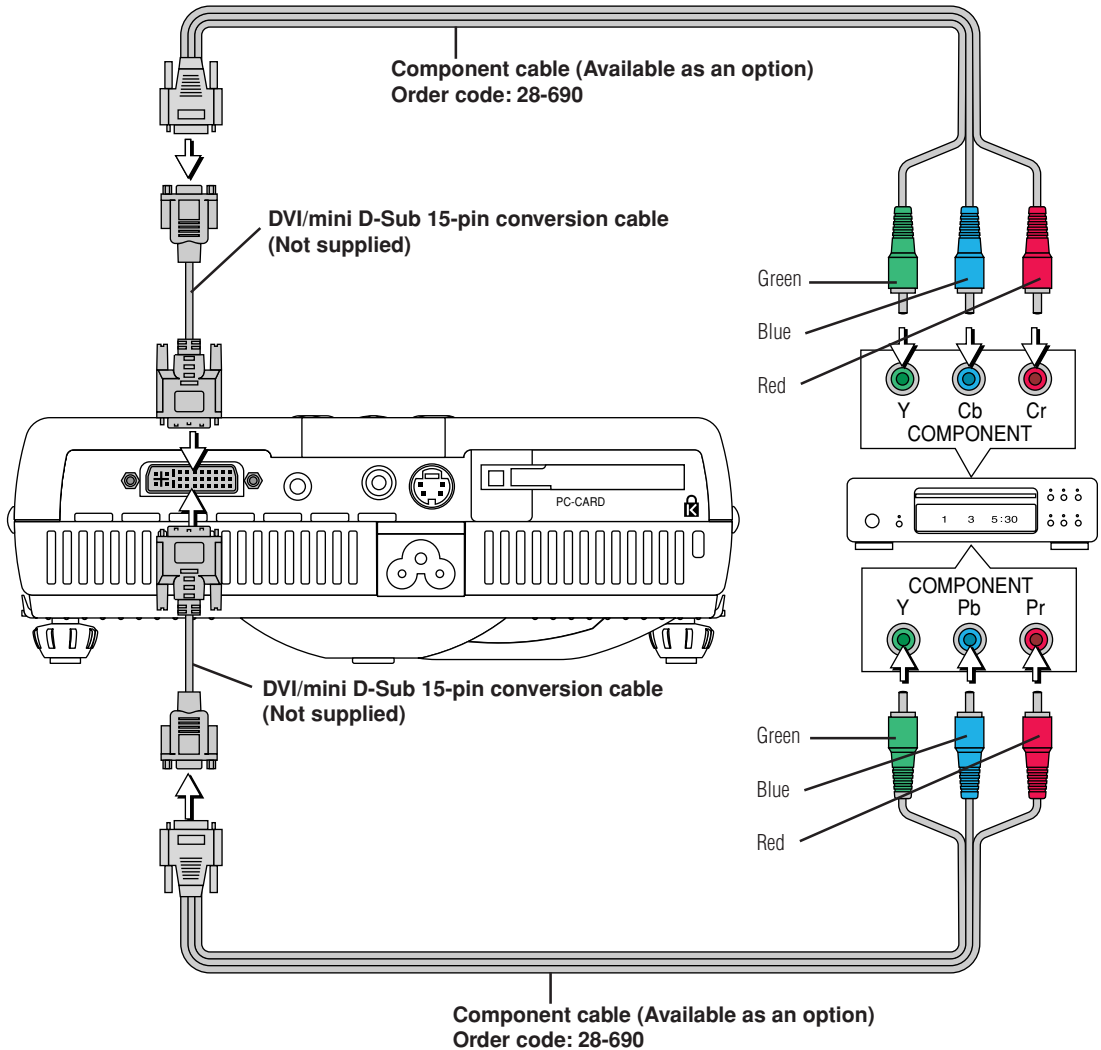
- Make the connection to the S-VIDEO connector of the projector using the supplied S-video cable.
- The input setting of the S-VIDEO connector has been set to “Auto” at the factory; however, if the projector does not project, please change the input setting to “Your Country’s Television Broadcast System” using the menu sequence of [Setup] → [Input format] → [SVideo].
See “Input Format” on Page E-50.



Connections with Component Signals

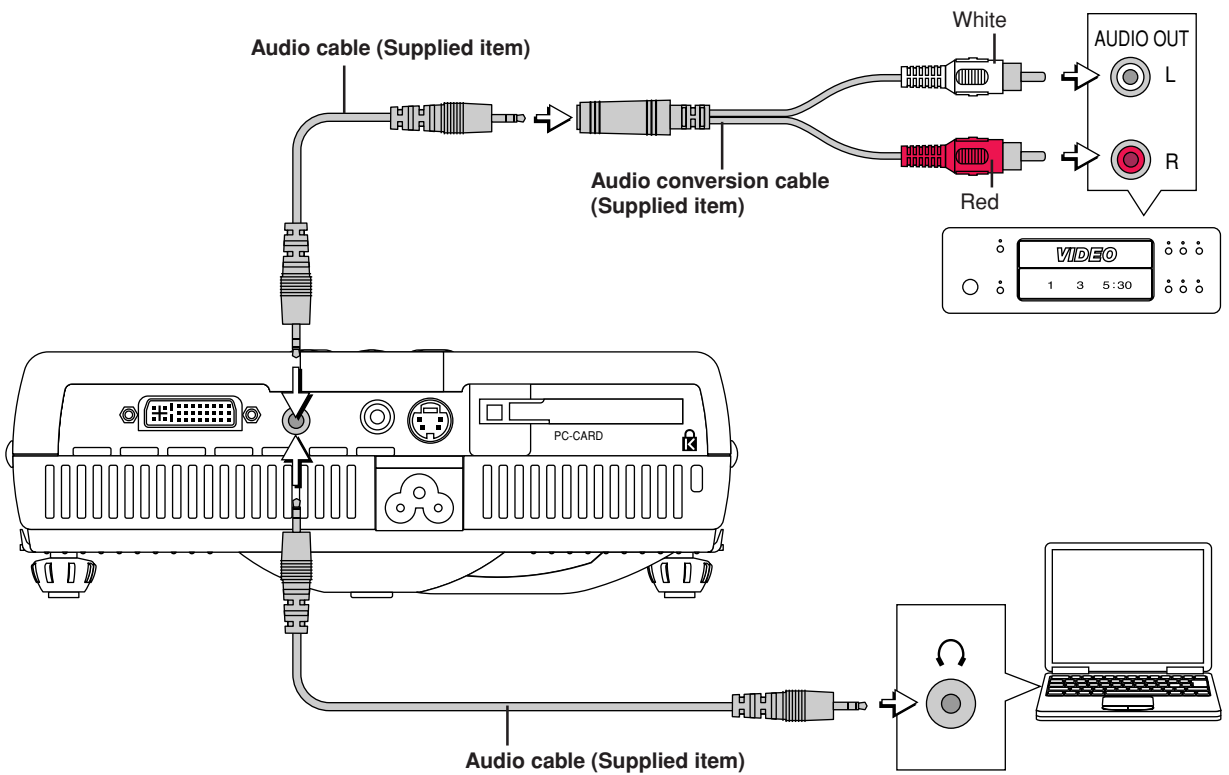
When the Video Equipment Has a YCbCr Connector or YPbPr Connector

- 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-46.



Connections with the AUDIO Jack

- * Make the connection to the projector's AUDIO jack 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 jack.

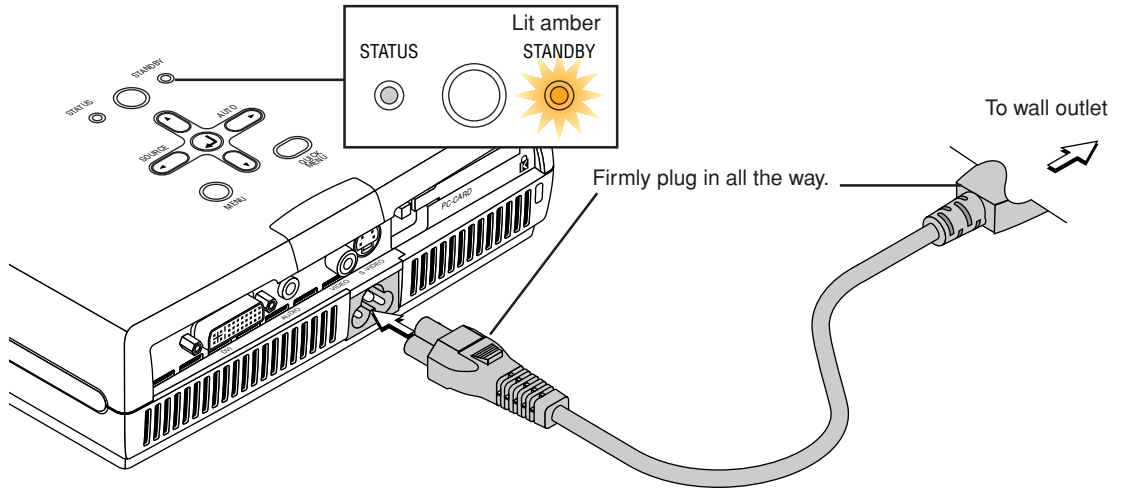


Power Cable Connections and Switching the Power On/Off

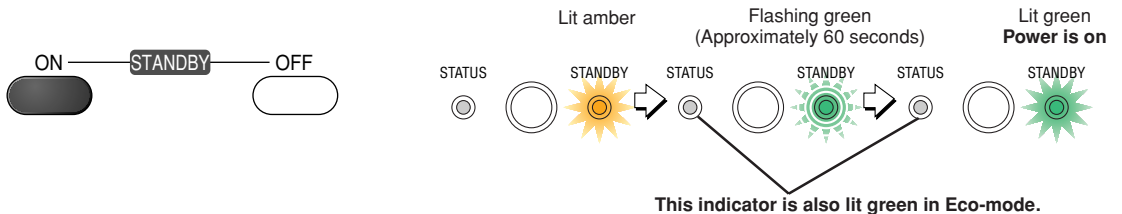
There is an order in which the power cable is connected and the power is switched on/off.

Operating

- 1 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.



- 2 Switch on the projector power**
Main unit operation: Press the STANDBY button.
Remote control operation: Press the STANDBY ON button.



The first time the power is switched on after purchase, [Menu Language Select] will be displayed. See Page E-25 for information about language selection.

- When the power is switched on, the STANDBY indicator changes to flashing 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-31 and E-50 for information about the selection method.
- If the power does not come on, see "When the STATUS Indicator is Lit or Flashing" on Page E-70.
- Your own logo can be projected at the time of startup. See "Startup Logo Creation" on Page E-60.

The projector is now capable of regular projection.

- 3 Switch on the power of the connected equipment**

Note:

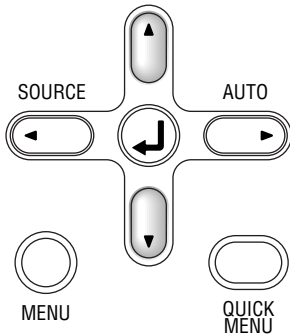
- When the power plug will be unplugged from the power outlet, please place the projector near the power outlet so that it may be reached easily.
- Press the STANDBY button or the STANDBY ON button after the STANDBY indicator is lit in amber.

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-28.

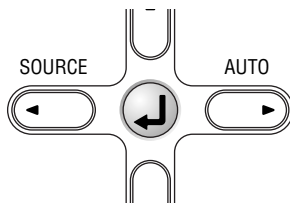
Menu Language Select	
Please select a menu language	English
Wählen Sie bitte die Menü Sprache aus.	Deutsch
S'il vous plaît choisir la langue de menu.	Français
Per favore di scegliere la lingua di menu.	Italiano
Escoja por favor el idioma de menú.	Español
Välj menyn språken.	Svenska
메뉴언어를 선택하십시오	한국어
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

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
Välj menyn språken.	Svenska
메뉴언어를 선택하십시오	한국어
请选择项目单语言中文	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.



This completes the selection of the display language.

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-56.

Finishing

1 Switch off the power of the connected equipment

2 Switch off the power of the projector

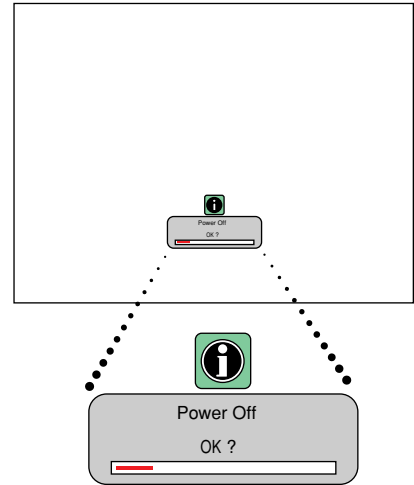
Main unit operation: Press the STANDBY button.

Remote control operation: Press the STANDBY OFF button.



The [Power Off] display appears.

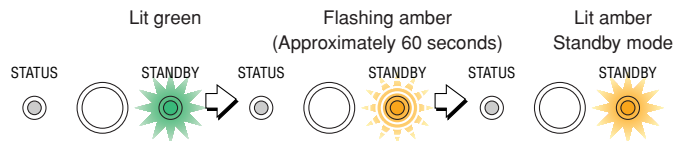
When the level gauge reaches maximum, the projection screen will go off (in about 5 seconds) and the projector will enter the power-off operation.



Note

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

The STANDBY indicator changes to flashing amber and lights a steady amber after about 60 seconds (when the unit enters the standby mode).



3 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.

Warning

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

Adjustment of the Projection Screen

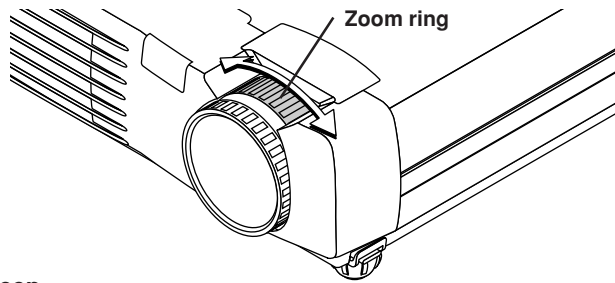
Switch on the power of the connected equipment and make the adjustments with the video signal being input to the projector.

Adjustment of the Projection Screen

Applicable Projector: U4-136/U4-112

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

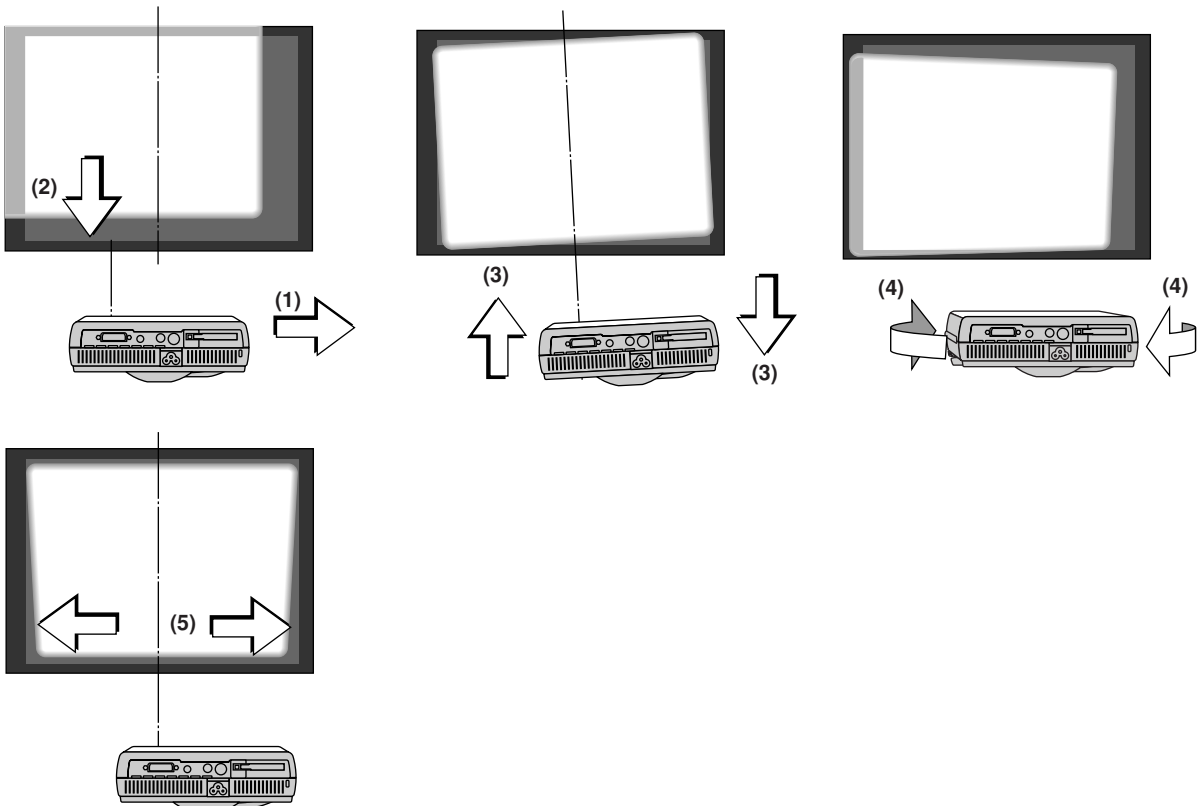
Adjust the image to match the desired screen size. When outside of the adjustment range, move the projector to the rear or forward.



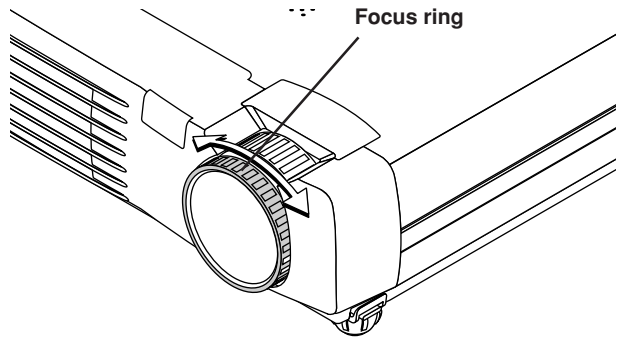
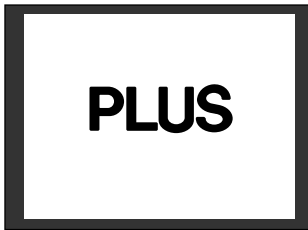
2 Adjust the projection image to the screen.

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-28.
- (3) If the image is slanted, adjust by turning the right or left front adjuster. See "Making Adjustments with the Adjusters" on Page E-28.
- (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-33, 48.



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

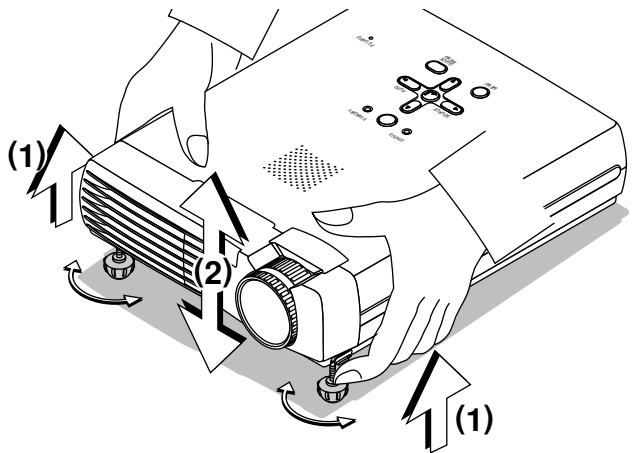


Making Adjustments with the Adjusters

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.

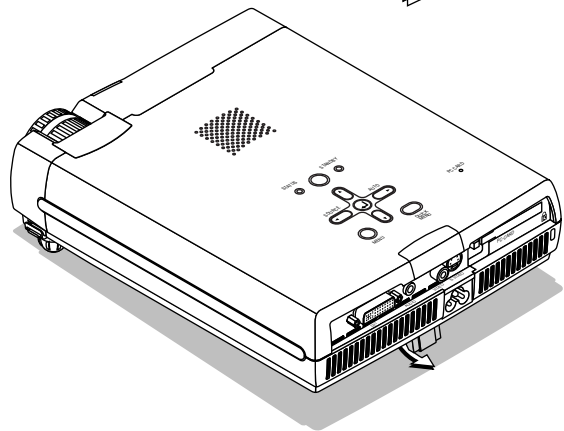
Turn the left and right front adjusters for fine adjustment. Adjust so that there is no shaking of the projector.



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.



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" 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-36 and the various items on Pages E-43 to E-59.

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

Whenever the SOURCE button is pressed, the projector automatically selects another source that has the next input signal.

When Auto Source is Off

The input selection condition used last time will be set.

Each press of the button moves the selection one step in the sequence of PC → VIDEO → S-VIDEO → PC-CARD. Note that the various input signals will become the signal type set with [Input Format] See "Input Format" on page E-50.

Remote control operation: Press the desired input selection button.

When Auto Source is On

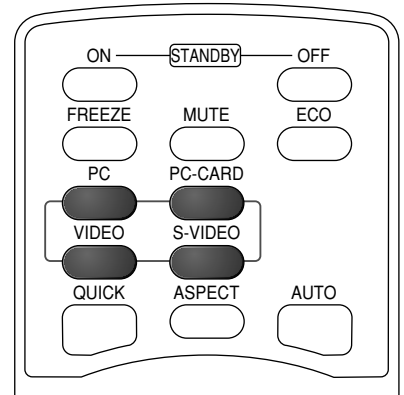
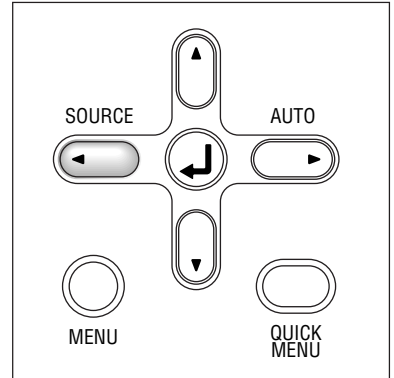
When an input signal is not present at the selected source, the projector automatically selects the next source that has an input signal.

When Auto Source is Off

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

Note

- * 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.
- * Selection of the PC-CARD input will not be possible when using projector models U4-131, U4-112, or U4-111.



Automatic Adjustment

This function automatically adjusts the position shift, screen size, vertical stripes, and color infidelity of the projected analog RGB input signal.

Normally automatic adjustment is performed at the time of signal selection.

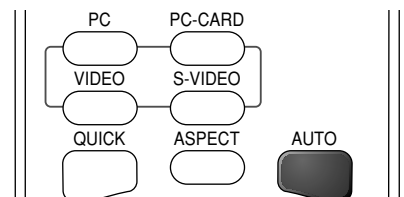
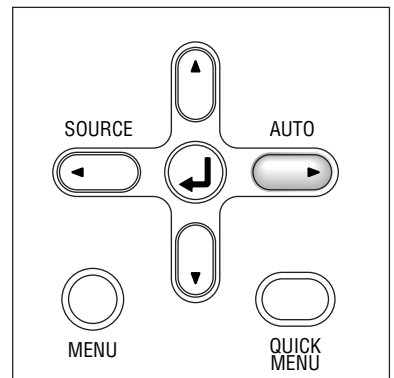
Main unit operation/Remote control operation: Press the AUTO button.

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

A press of the AUTO button starts the automatic adjustment.

Note:

- * If the display position is shifted, vertical lines appear on the picture, or the projection is not good even after using automatic adjustment, please perform image adjustment manually. See "Picture Adj. / Fine Picture / H Position / V Position" on Page E-43.
- * 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-30 and "Aspect" on Page E-47.



Selection of Aspect Ratio

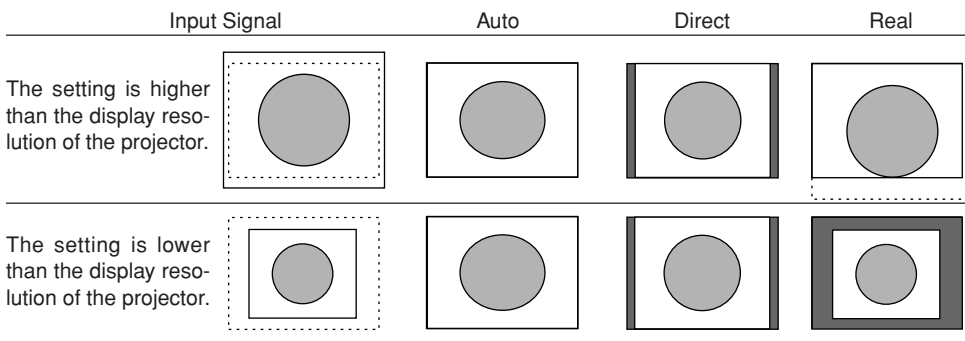
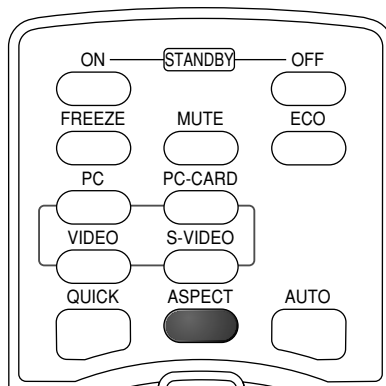
This function selects horizontal and vertical picture proportions of the input signal.

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 → Direct → Real, and then repeats.

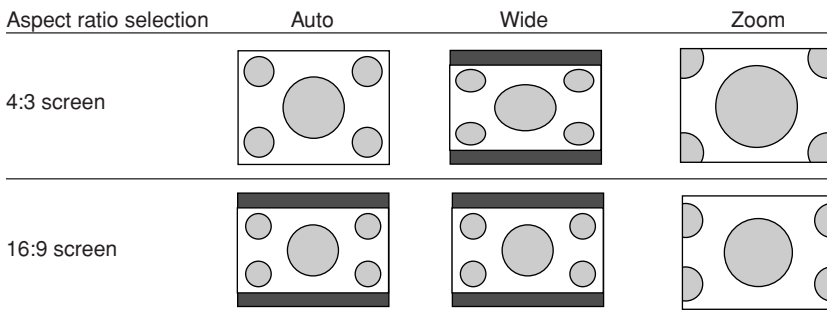
- Auto Automatically enlarges or reduces the image to project a full screen in a ratio of 4:3
- Direct Maintains the aspect ratio and projects a picture of the maximum displayable size
- Real Projects the input signal without pixel conversion.



Video Signals / Component Signals

Each press of the ASPECT button advances the selection one step in the sequence of Auto → Wide → 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:

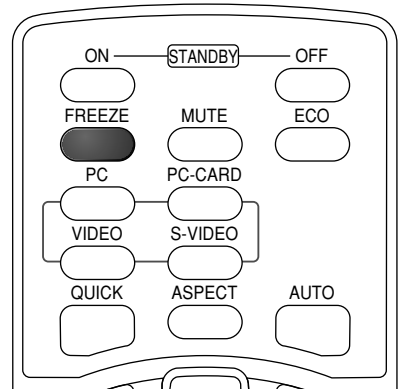
When selection has been made for the "Real" setting of the personal computer signal (i.e., when the input signal and the projector display resolution are high) and the "Zoom" setting of the video signal, pressing the SELECT ▲▼◀▶ buttons on the remote control will permit movement of the display position. 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.

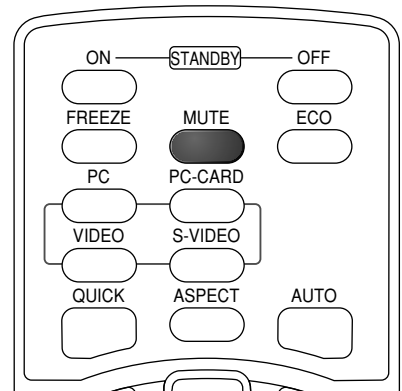
A press of the **FREEZE** button changes the screen to a still picture. A further press returns the screen to a moving picture.



Canceling 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)

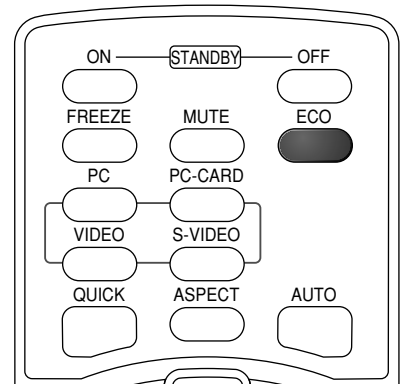
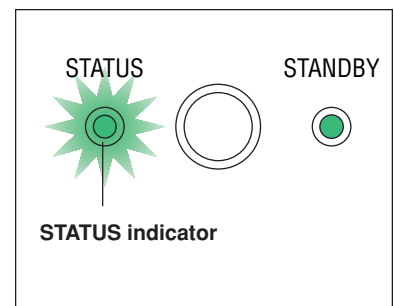
Lamp brightness is set to 80% and the lamp life is extended.

Normal (STATUS indicator is off)

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

Note:

Frequent switching this mode can degrade the lamp.



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.



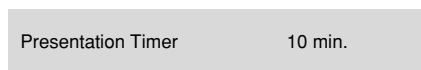
[Timer settings display]

Press the CANCEL button to close the display immediately.

(2) Press the “+” or the “-” button to set the time.

The setting contents are “Off” and from 10 to 60 minutes (in 10-minute intervals)

Settings can also be made with the SELECT ◀▶ buttons.



(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.



[Timer Display]

The blue gauge indicates the remaining time. When the gauge disappears, the time is up.

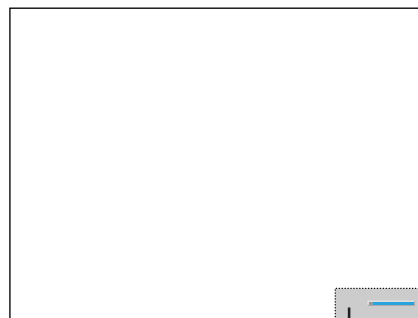
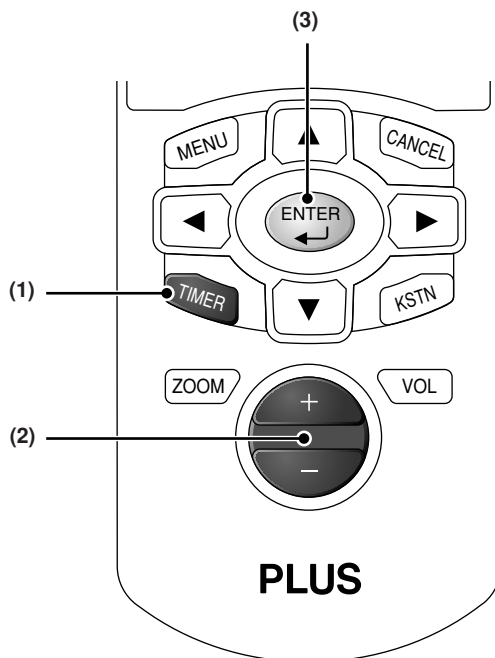
The gauge continues to be displayed when the timer is stopped.



- 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

The SELECT ▲▼◀▶ buttons on the remote control permit movement within the movable range of the timer display.



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.

General Operation

Keystone

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

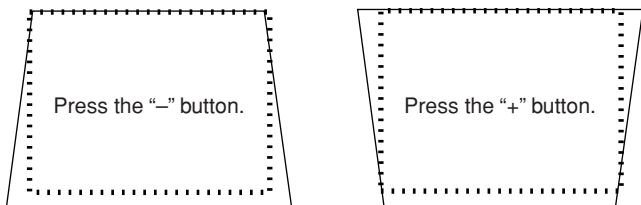
Adjustment Method

(1) Press the KSTN button.

The keystone adjustment display will appear.



(2) Press the "+" / "-" button while viewing the screen to set the left and right sides parallel.



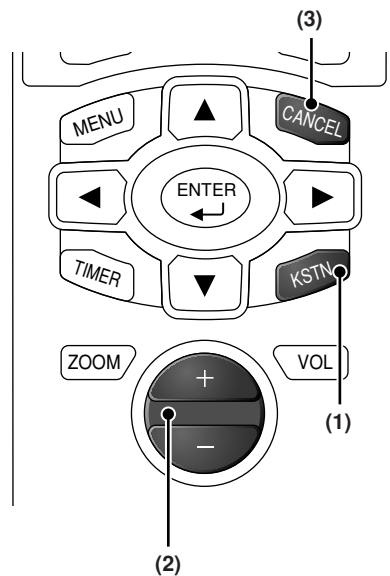
The dotted lines indicate the proper condition.

(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:

- * 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.



Adjustment of the Volume

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

(1) Press the VOL button.

The volume adjustment display will appear.



(2) Adjust the volume.

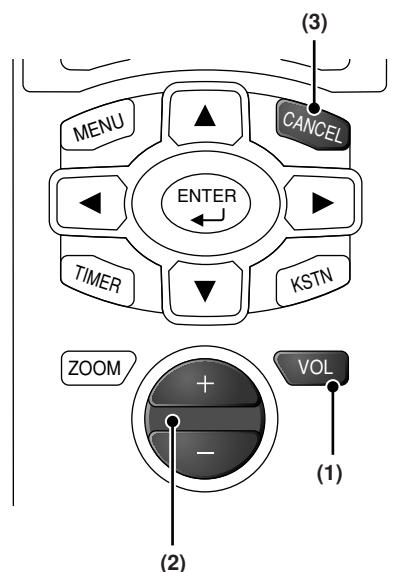
The (+) button increases the volume and the (-) button decreases the volume.

(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.

Note:

- * Adjustment of the volume will not produce any sound unless an image is being projected.
- * Please make connections to the AUDIO connectors of the projector with the supplied audio cable.

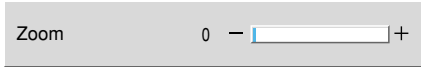


Enlargement of the Image and Video Movement

This function digitally enlarges the personal computer image and video image (up to 10 times).

(1) Press the ZOOM button.

The zoom selection display will appear.



(2) Enlarge to the desired size.

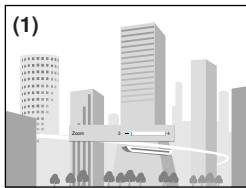
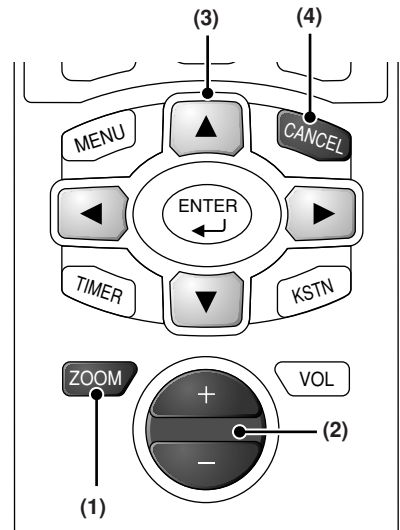
Each press of the (+) button enlarges the image and each press of the (-) button makes the image smaller (returning it to 1:1).

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

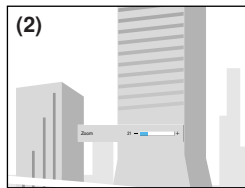
(There will not be any movement when zoom is at 0.)

(4) To close the display immediately, press the CANCEL button.

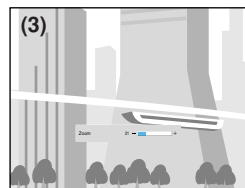
In the absence of operations for a period of about 10 seconds, the display will close automatically.



(No enlargement)



(Approximately 2 times enlargement)



(Movement)

The image can also be moved in the following circumstances.

- When “Aspect” is set to “Real” by the signal of the personal computer, and the input resolution is higher than the display resolution of the projector.
- When “Aspect” is set to “Zoom” by the video signal.

Note:

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

Note

- * Zoom and image movement functions are cancelled when the input is switched.
- * The greater the zoom enlargement, the less distinct the image will appear. The reason for this is that the dots are being digitally corrected so that they are not conspicuous.
- * Movement of the screen will not be possible when the menu screen is being displayed.

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.

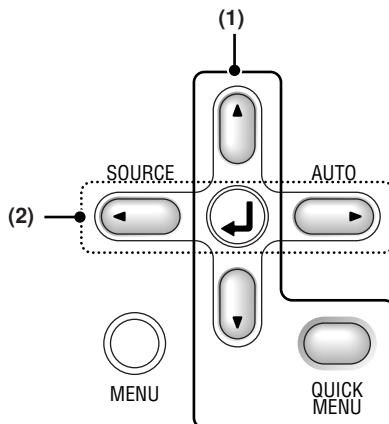
Main unit operation

(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 ◀ or ▶ 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.

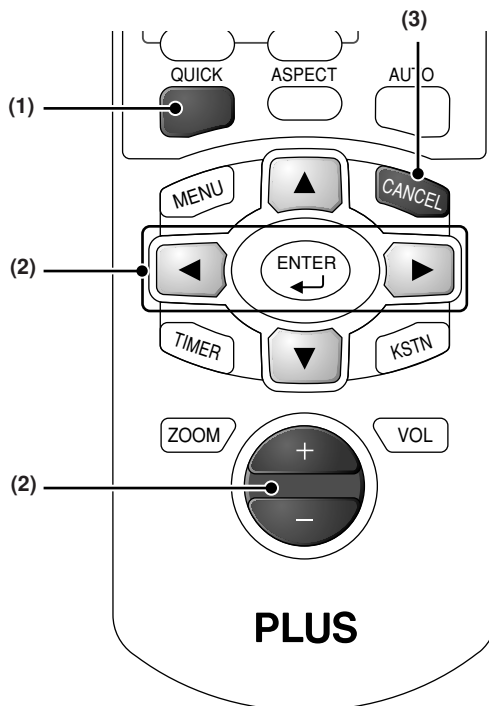
The adjustment display can be selected with use of either the SELECT ▲ or ▼ button.

(2) Press the cursor ◀ or ▶ button to make the adjustment.

Pressing the “+” or “-” button will also switch the adjustment display.

(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



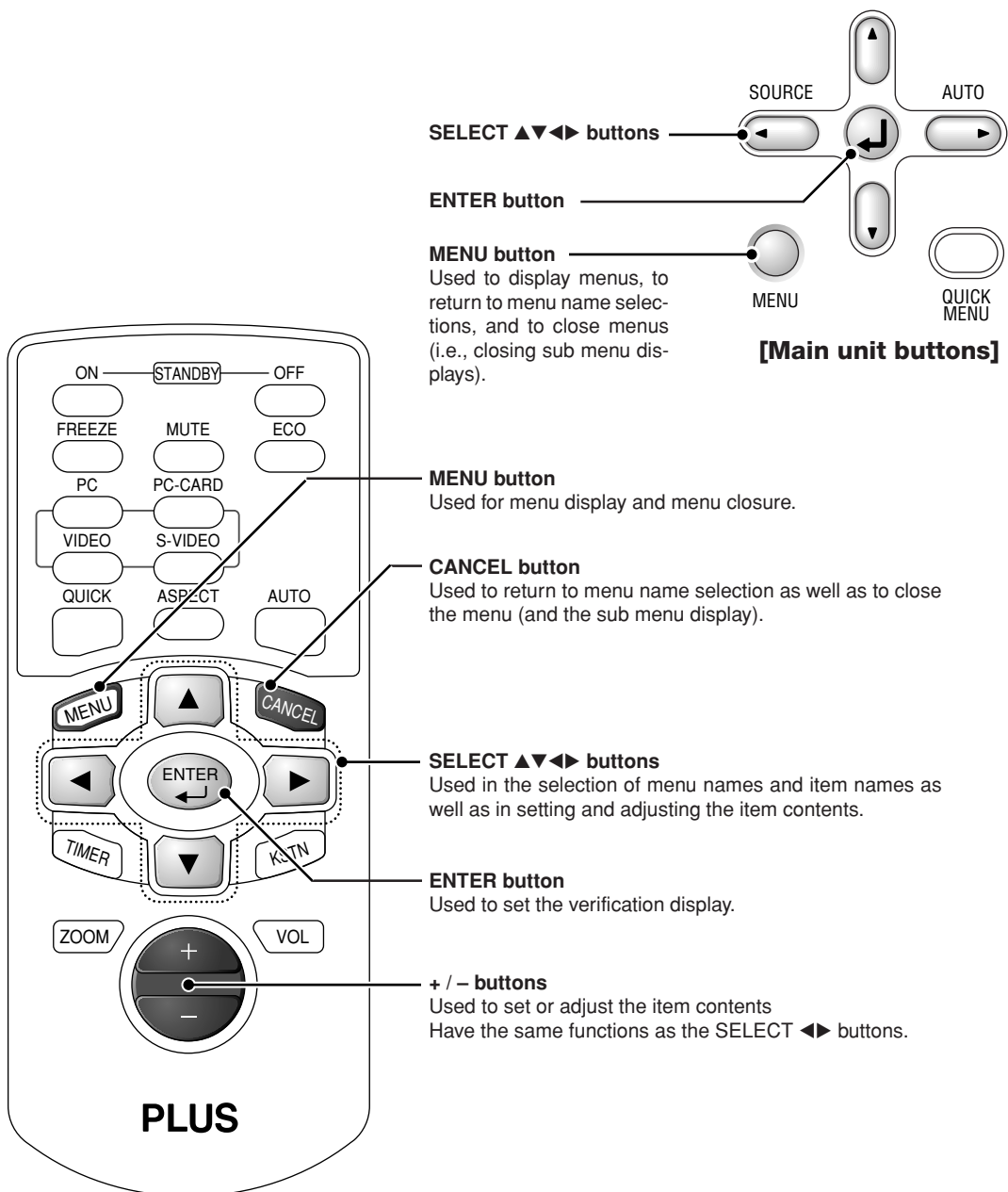
Brightness	Adjusts the brightness of the image. See page E-43.
Contrast	Adjusts the contrast of the image. See page E-43.
Keystone	Corrects (vertical) keystone distortion of the screen. See page E-33.
Volume	This function adjusts the volume of the built-in speaker. See page E-33.
Presentation timer	Sets the time of the presentation timer. See page E-32.

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-58. (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 remote control unit buttons used for menu operations

The buttons on the main unit operate in the same way.



Menu Operation Method

Menu Screen Names and Functions

Menu Name

This is the title of the menu. There is a change to the title screen when the menu is selected. The selected menu name appears in red.

Cursor (Deep Blue)

This permits setting/adjustment of the item located at the cursor position.

Item Name

This is the name of the adjustment or setting.

Applicable Projector: U4-136

Only model U4-136 displays "PC Card Viewer".

Adjustment Bar and Settings Contents

Adjustment Bar: The increases and decreases in bar length express the adjustment condition.

Setting Contents: Displays the contents that have been set.

Image	Color	View	Setup	Info.
	Auto Source		On	
	Auto Power Off		Off	
	Menu Position		<input type="checkbox"/>	
	Lamp Mode		Normal	
	Input Format		<input type="checkbox"/>	
	Presentation Timer		Off	
	Logo Capture		<input type="checkbox"/>	
	PC Card Viewer		<input type="checkbox"/>	
	Option		<input type="checkbox"/>	

Icon: Pressing the ENTER button displays the sub menu or setting contents.

Sub menu

Auto Power Off	On
Menu Position	<input type="checkbox"/>
Lamp Mode	Normal
Input Format	PC Auto
Presentation Ti	Video Auto
Logo Capture	SVideo Auto
PC Card Viewer	<input type="checkbox"/>

Item Name

Settings Contents

Adjustment Bar

Image	Color	View
Brightness	0	<input type="range"/> +
Contrast	0	<input type="range"/> +
Color	0	<input type="range"/> +
...	0	<input type="range"/> +

Performing Menu Operations

- When a signal is not being input, only [Setup] and [Info.] can be selected.
- 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

1 Press the MENU button to display the menu

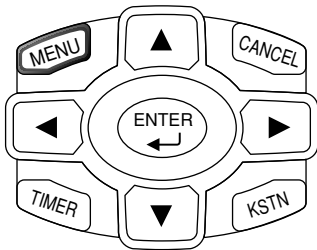


Image	Color	View	Setup	Info.
Brightness	0	—	+	
Contrast	0	—	+	
Picture Adj.	0	—	+	
Fine Picture	48	—	+	
H Position	0	—	+	
V Position	0	—	+	
Reset				

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

Selection of the Menu Name

2 Press the SELECT button to select the menu name

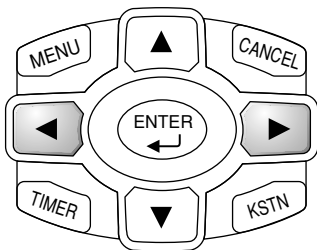


Image	Color	View	Setup	Info.
Aspect			Auto	
Filter			3	
Vertical Flip			Off	
Horizontal Flip			Off	
Keystone	0	—	+	
Keystone Save			On	

Each press of the SELECT button advances the selection one step in the sequence of “Color” → “View” → “Setup” → “Info.” → “Image”. Each press of the SELECT button causes a return of one step.

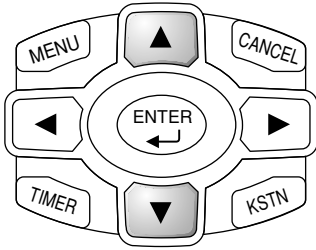
The selected menu name will appear in red.

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

3 Press the SELECT ▼ button to display the cursor



This condition allows selection of the item name.

Image	Color	View	Setup	Info.
			Aspect	Auto
			Filter	3
			Vertical Flip	Off
			Horizontal Flip	Off
		0	-	+
			Keystone Save	On

Selection of the Item Name

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

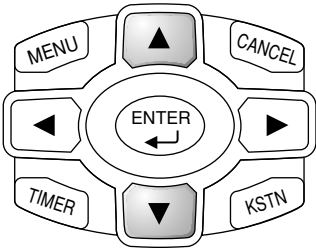


Image	Color	View	Setup	Info.
			Aspect	Auto
			Filter	3
			Vertical Flip	Off
			Horizontal Flip	Off
		0	-	+
			Keystone Save	On

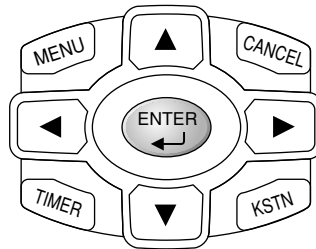
Items for which the Icon Is Displayed

A press of the ENTER button displays the sub menu and the cursor moves to the sub menu.

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.

Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	



		Sub menu
Lamp Mode	Normal	
Input Format	PC	Auto
Presentation	Video	Auto
Logo Capture	SVideo	Auto
PC Card Viewer		
Option		

Making Adjustments/Settings

5 Press the SELECT ◀▶ button and make the adjustment (or setting) while viewing the image

When a button is pressed, the image will also change.

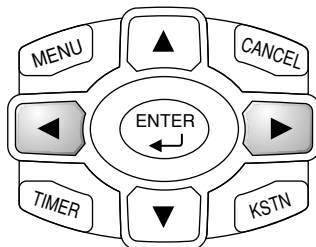


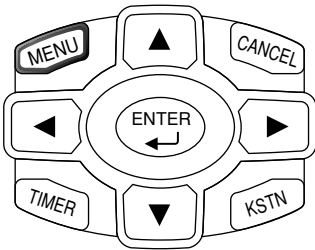
Image	Color	View	Setup	Info.
			Aspect	Auto
			Filter	3
			Vertical Flip	Off
			Horizontal Flip	Off
		0	-	+
			Keystone Save	On

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.

Closing the Menu

6 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 and cancel the cursor display.

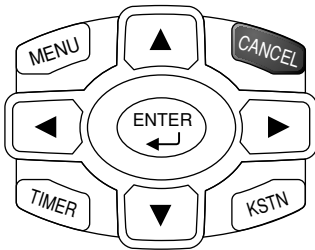


Image	Color	View	Setup	Info.
	Aspect		Auto	
	Filter		3	
	Vertical Flip		Off	
	Horizontal Flip		Off	
	Keystone	0	- [Slider] +	
	Keystone Save		On	

Image	Color	View	Setup	Info.
	Aspect		Auto	
	Filter		3	
	Vertical Flip		Off	
	Horizontal Flip		Off	
	Keystone	0	- [Slider] +	
	Keystone Save		On	

Press the SELECT ◀▶ button and select the menu name. (Selection of the menu name is not possible while the cursor is displayed.)

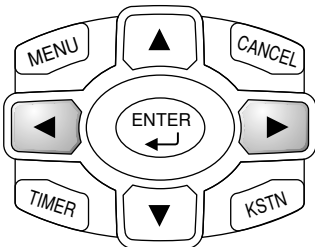


Image	Color	View	Setup	Info.
	Brightness	0	- [Slider] +	
	Contrast	0	- [Slider] +	
	Picture Adj.	0	- [Slider] +	
	Fine Picture	48	- [Slider] +	
	H Position	0	- [Slider] +	
	V Position	0	- [Slider] +	
	Reset		[Reset Icon]	

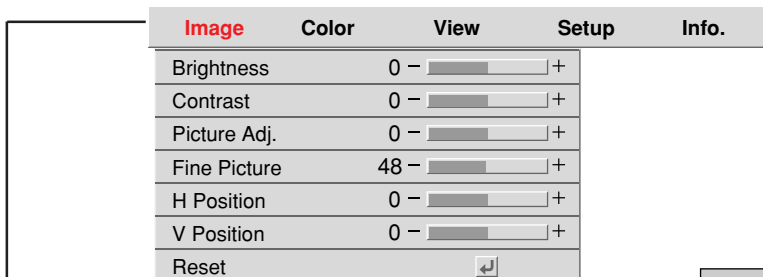
Note

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.

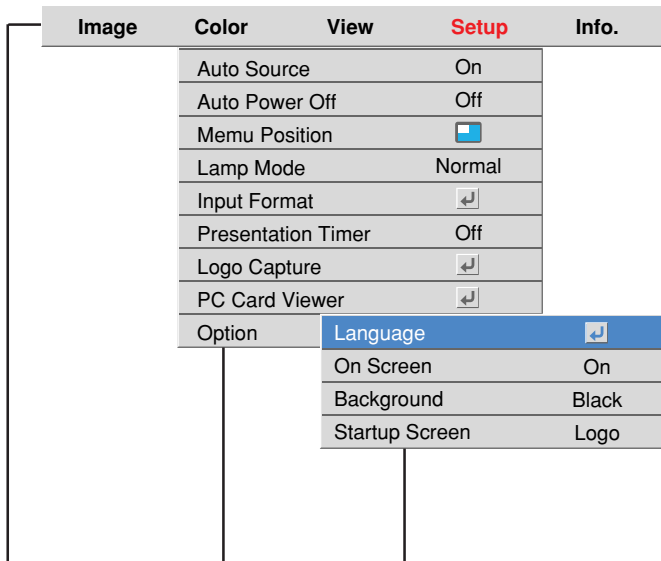
[Example of Menu Display Items at the Time of Input Signal Analog RGB Selection]



Menu name	Item Name	Sub Menu Item Name	Input Terminal		PC			Reference Page	
			Input Signal	YPbPr	YCbCr	Analog RGB	Digital RGB		VIDEO
Image	Brightness		○	○	○	○	○	○	E-43
	Contrast		○	○	○	○	○	○	E-43
	Picture Adj.				○				E-43
	Fine Picture				○				E-44
	H Position				○				E-44
	V Position				○				E-44
	Color				○		○	○	E-43
	Tint						○	○	E-43
	Sharpness						○	○	E-43
	Reset			○	○	○	○	○	E-44
Color	Gamma		○	○	○	○	○	○	E-45
	Color Temp.		○	○	○	○	○	○	E-45
	White		○	○	○	○	○	○	E-45
	Color Space		○	○					E-46
	White Balance				○				E-46
View	Aspect		○	○	○	○	○	○	E-47
	Filter		○	○	○	○	○	○	E-47
	Vertical Flip		○	○	○	○	○	○	E-48
	Horizontal Flip		○	○	○	○	○	○	E-48
	Keystone		○	○	○	○	○	○	E-48
	Keystone Save		○	○	○	○	○	○	E-48

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

Menu Operation Method



Input Terminal	PC						Reference Page
	YPbPr	YCbCr	Analog RGB	Digital RGB	VIDEO	S-VIDEO	

Menu name	Item Name	Sub Menu Item Name	Y	P	B	Pr	Y	Cr	R	G	B	VIDEO	S-VIDEO	Reference Page	
Setup	Auto Source		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-49	
	Auto Power Off		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-49	
	Memu Position		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-49	
	Lamp Mode		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-50	
	Input Format		PC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-50
			Video	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-50
			SVideo	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-50
	Presentation Timer		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-51	
	Logo Capture		Logo Background	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-51
			Logo Scaling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-51
			Logo Position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-52
			Caputure Mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-52
			Invalidata Logo	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-52
			Start Logo Caputure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-53
			Preview	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	PC Card Viewer		Initial Setting	Applicable Projector: U4-136										E-54	
			Play Mode	Applicable Projector: U4-136										E-54	
			Interval	Applicable Projector: U4-136										E-55	
			Repeat	Applicable Projector: U4-136										E-55	
			Progress Bar	Applicable Projector: U4-136										E-55	
	Option		Language	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-56
On Screen			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-56	
Background			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-56	
Startup Screen			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-57	
Info.	Status		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-58	
	Factory Default		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-58	
	Lamp Timer Reset		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-58	
	Resolution		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-59	
	Frequency		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-59	
	Lamp Timer		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	E-59	

Picture

- Perform this operation while projecting the picture for which the adjustment/setting will be made.
 - Select the menu name “Picture”.
- See “Menu Operation Method” on Page E-36 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-41.

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

Brightness	0	—	+
Contrast	0	—	+
Color	0	—	+
Tint	0	—	+
Sharpness	0	—	+
Reset	↩		

Note:

- * The adjustment values of the adjustable items are stored according to input source.
- * “Tint” can be adjusted only at the time of NTSC composite/S signal input.

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

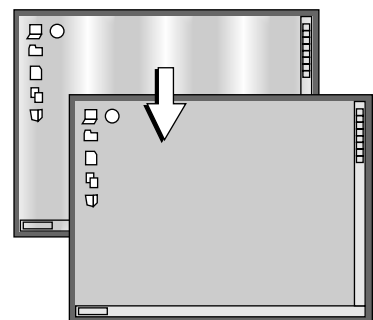
When the image extends beyond the boundaries of the screen or is smaller than the screen, check that the “View” → “Aspect” setting is set to “Auto”. See “Aspect” on Page E-47.

Brightness	0	—	+
Contrast	0	—	+
Picture Adj.	0	—	+
Fine Picture	48	—	+
H Position	0	—	+
V Position	0	—	+
Reset	↩		

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 the screen.

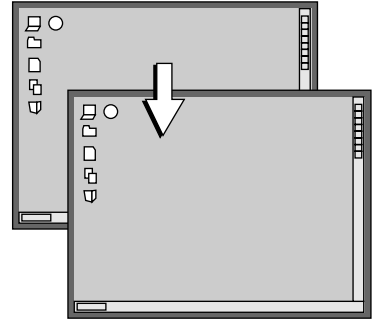


Picture

Fine Picture

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

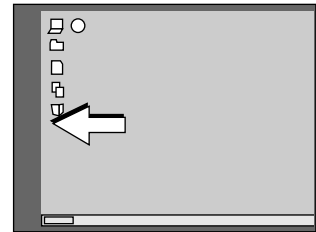
Select the "Fine Picture" item name and adjust with the SELECT ◀▶ buttons so that the lack of color fidelity or the flickering disappears.



H Position

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

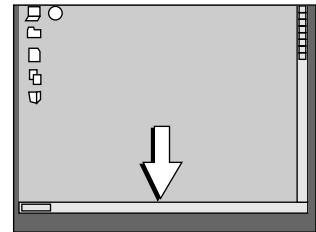
Select the "H Position" item name and adjust with the SELECT ◀▶ buttons.



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.

Brightness	0	—	+
Contrast	0	—	+
Color	0	—	+
Tint	0	—	+
Sharpness	0	—	+
Reset			

Note

* The item name "Fine Picture" at the time of analog 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" on Page E-58.

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-36 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 Pages E-41.

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 SELECT ◀▶ buttons.

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

Gamma	Normal
Color Temp.	Normal
White	High
Color Space	YCbCrSMPT
White Balance	↕

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)

Gamma	Normal
Color Temp.	Normal
White	High
Color Space	YCbCrSMPT
White Balance	↕

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”.

Gamma	Normal
Color Temp.	Normal
White	High
Color Space	YCbCrSMPT
White Balance	↕

Color

Color Space

Set this function when a component signal (YCbCr or 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 YCbCr input

YCbCr601, YCbCr709, YCbCrSMPT

Selection contents at the time of YPbPr input

YPbPr601, YPbPr709, YPbPrSMPT

Gamma	Normal
Color Temp.	Normal
White	High
Color Space	YCbCrSMPT
White Balance	

Note

* 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.

White Balance

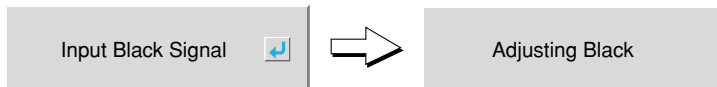
This function automatically adjusts the black level and the white level of the analog RGB input signal to suit the personal computer.


1 Select the item name [White Balance] and press the ENTER button.

The display will change to [Input Black Signal].

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.

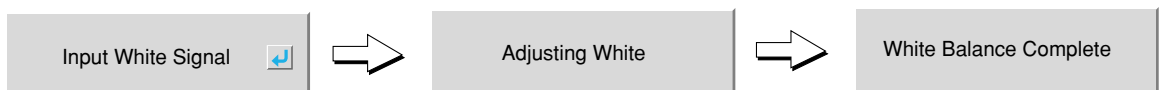


Gamma	Normal
Color Temp.	Normal
White	High
Color Space	YCbCrSMPT
White Balance	

4 The adjustment of the black level is completed and the display changes to [Input White Signal].

5 The screen background color of the connected personal computer will be set to white.

6 Press the ENTER button. The display will change to [Adjusting White] and the white level will be adjusted.



[White balance complete] is displayed for a while and the adjustment is completed.

View

- 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-36 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-41.

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 SELECT ◀▶ buttons.

Personal Computer Signal

- 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

- 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.)

See “Selection of Aspect Ratio” on Page E-30 for diagrams of projection screen images that correspond to the input signals.

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.


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

Filter

This function sets the sharpness when the input signal is adjusted to the 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 softer picture. Please select your desired setting value.

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

Vertical Flip

In selecting the method of projecting to the screen, these functions are set when the projector is in a suspended or 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 - <input type="text"/> +
Keystone Save	On

“Vertical Flip” Off
“Horizontal Flip” Off



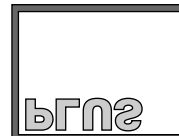
“Vertical Flip” Off
“Horizontal Flip” On



“Vertical Flip” On
“Horizontal Flip” On



“Vertical Flip” On
“Horizontal Flip” Off

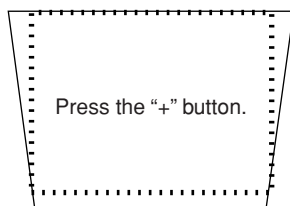
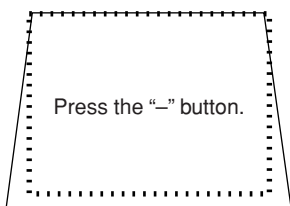


Keystone

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 “+” and “-” buttons.

Aspect	Auto
Filter	3
Vertical Flip	Off
Horizontal Flip	Off
Keystone	0 - <input type="text"/> +
Keystone Save	On



Pressing the button will cause the projection screen to be corrected toward the screen depicted by the dotted lines.

Note:

Menus and other on-screen displays will not be adjusted.

Keystone Save

This function is used to save the keystone adjustment values.

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

Select the item name “Keystone Save” and set with the SELECT ◀▶ buttons.

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

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

Aspect	Auto
Filter	3
Vertical Flip	Off
Horizontal Flip	Off
Keystone	0 - <input type="text"/> +
Keystone Save	On

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.

Setup

- **Select menu name “Setup”.**

See “Menu Operation Method” on Page E-36 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-41.

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 PC → VIDEO → S-VIDEO is searched repeatedly.

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

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	

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.

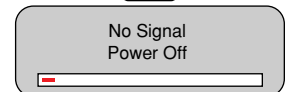
On The power is switched off when there is no signal.

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
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	On
Logo Capture	
PC Card Viewer	
Option	



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.






Menu Position

This function sets the display position of the menu.

Select item name “Menu Position” and select the setting contents with the SELECT ◀▶ buttons.

 Displays on the left side

 Displays on the right side

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	

Setup

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.






Select the item name "Lamp Mode" and select the setting contents with the SELECT ◀▶ buttons.

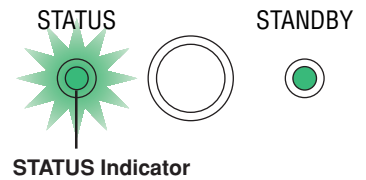
Eco The lamp brightness is set to 80% and the lamp life is extended.
(STATUS indicator is green)

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.

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	



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 Automatically identifies the signal.

RGB Analog RGB signal is set.

Digital Digital RGB signal is set.

Component . Component signal is set.

(YPbPr and YCbCr signals are identified automatically.)

[Video] and [SVideo]




[Video] is the color system setting for the VIDEO connector and [SVideo] is the color system setting for the S-VIDEO connector.

Auto Automatic identification.

NTSC Fixed to the NTSC system.

PAL Fixed to the PAL system.

SECAM Fixed to the SECAM system.

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	PC Auto
Presentation	Video Auto
Logo Capture	SVideo Auto
PC Card Viewer	
Option	

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.

Select the item name "Presentation Timer" and select the setting contents with the SELECT ◀▶ buttons.

Setting contents: Off, 10 minutes, 20 minutes, 30 minutes, 40 minutes, 50 minutes, 60 minutes

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-32 for details.

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	

Logo Background

This is the setting of the background color when the logo is displayed. Changes cannot be made after the capture.

See "Startup Logo Creation" on Page E-60 for information about using logo capture.

Select item name "Logo Capture", press the ENTER button, and the sub menu will open.

Select "Logo Background" and select the background color with the SELECT ◀▶ buttons.

Auto Source	On
Auto Power Off	Off
Memu	Logo Background Black
Lamp	Red 0 -
Input	Green 0 -
Prese	Blue 0 -
Logo	Logo Scaling Real
PC C	Logo Position
Optio	Caputure mode High Quality

Selection contents: Black, White, Red, Green, Blue, Custom

When Custom is selected, the Red, Green, and Blue items will appear in black characters and will become selectable.

Select the various colors and create the background color with the SELECT ◀▶ buttons.

Logo Background	Custom
Red	0 -
Green	0 -
Blue	0 -
Logo Scaling	Real

Logo Scaling

This is the setting of the magnification for the display of the logo. Changes cannot be made after the capture.

See "Startup Logo Creation" on Page E-60 for information about using logo capture.

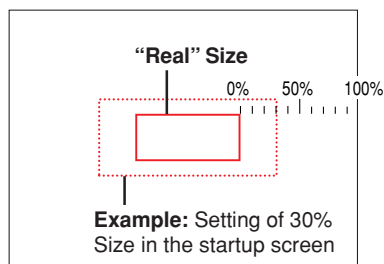
Select item name "Logo Capture", press the ENTER button, and the sub menu will open.

Select "Logo Scaling" and select the magnification with the SELECT ◀▶ buttons.

Real: This is the size under the aspect "Real" setting.

The captured logo size can be enlarged in 10 steps up to the full size of the screen.

Logo Background	Black
Red	0 -
Green	0 -
Blue	0 -
Logo Scaling	Real
Logo Position	



Setup

Logo Position

This is the setting of the position for the display of the logo. Changes cannot be made after the capture.

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Logo Capture”, press the ENTER button, and the sub menu will open.

Select “Logo Position” and select the display position icon with the SELECT ◀▶ buttons.

Icon Contents



The following can be selected: upper left, upper center, upper right, center left, center, center right, lower left, lower center, lower right, and tile.

Note:

Tile displays the displayable captured images in order from the upper left.

Logo Background	Black
Red	0 - <input type="range"/> +
Green	0 - <input type="range"/> +
Blue	0 - <input type="range"/> +
Logo Scaling	Real
Logo Position	<input checked="" type="checkbox"/>
Caputure mode	High Quality
Invalidata Logo	<input type="checkbox"/>
Start Logo Capture	<input type="checkbox"/>
Preview	<input type="checkbox"/>

Capture Mode

This is the setting of the compression ratio for the logo that is to be captured.

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Logo Capture”, press the ENTER button, and the sub menu will open.

Select “Capture Mode” and select the compression ratio with the SELECT ◀▶ buttons.

High quality Picture quality is a priority. Capture range is narrowed.

Standard Standard compression is used.

High compression Picture quality deteriorates somewhat, but the capture range widens.

Logo Background	Black
Red	0 - <input type="range"/> +
Green	0 - <input type="range"/> +
Blue	0 - <input type="range"/> +
Logo Scaling	Real
Logo Position	<input checked="" type="checkbox"/>
Caputure mode	High Quality
Invalidata Logo	<input type="checkbox"/>
Start Logo Capture	<input type="checkbox"/>
Preview	<input type="checkbox"/>

Invalidata Logo

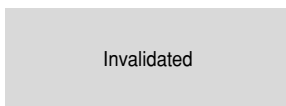
This deletes logos for which creation is completed. It cannot be selected in the absence of a logo.

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Logo Capture”, press the ENTER button, and the sub menu will open.

Select “Invalidata Logo” and press the ENTER button.

The message “Invalidated” is displayed during logo deletion.



Logo Background	Custom
Red	0 - <input type="range"/> +
Green	0 - <input type="range"/> +
Blue	0 - <input type="range"/> +
Logo Scaling	Real
Logo Position	<input checked="" type="checkbox"/>
Caputure mode	High Quality
Invalidata Logo	<input checked="" type="checkbox"/>
Start Logo Capture	<input type="checkbox"/>
Preview	<input type="checkbox"/>

Start Logo Capture

This executes image capture.

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Logo Capture”, press the ENTER button, and the sub menu will open.

Select “Start Logo Capture” and press the ENTER button.

There is a change to the capture range selection display.

Note:

Selection is not possible in the absence of a signal.

Movement of the Capture Range

Use the SELECT ▲▼◀▶ buttons on the remote control to move the red frame.

Width/Height Adjustment of the Capture Range

The MENU button will switch between the height adjustment and the width adjustment.

There is a change to the display of the selected “Adjust Capture Region Height” or “Adjust Capture Region Width”.

Adjust the capture range (i.e., red frame) with the remote control “+”/“-” buttons.

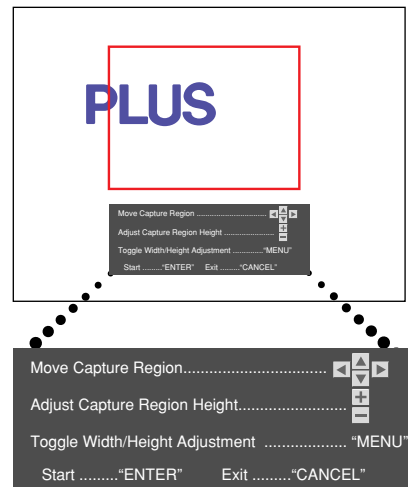
To Cancel

Press the CANCEL button. There is a change to the menu display.

Starting Capture

Press the ENTER button start the capture.

Logo Background	Black
Red	0 - <input type="text"/> +
Green	0 - <input type="text"/> +
Blue	0 - <input type="text"/> +
Logo Scaling	Real
Logo Position	<input checked="" type="checkbox"/>
Caputure mode	High Quality
Invalidata Logo	<input type="checkbox"/>
Start Logo Capture	<input checked="" type="checkbox"/>
Preview	<input type="checkbox"/>



Display for capture selection

Preview

This is used in checking the logo capture display at startup time. Selection is not possible without using capture.

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Logo Capture”, press the ENTER button, and the sub menu will open.

Select “Preview” and press the ENTER button to preview the image.

To close, press the CANCEL button or the ENTER button.

Logo Scaling	Real
Logo Position	<input checked="" type="checkbox"/>
Caputure mode	High Quality
Invalidata Logo	<input type="checkbox"/>
Start Logo Capture	<input type="checkbox"/>
Preview	<input checked="" type="checkbox"/>



Initial Setting

Applicable Projector: U4-136

These are the display settings when the unit has been switched to PC Card Viewer.

See “Using the PC Card Viewer” on Page E-62 for information about how to use the viewer.

Select item name “PC Card Viewer,” then press the ENTER button to open the sub menu.

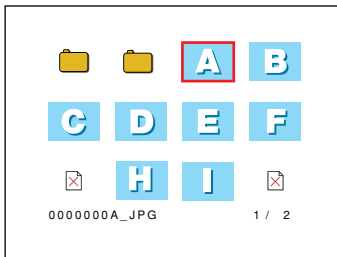
Select item name “Initial Settings” and select the setting contents with the SELECT ◀▶ buttons.

Thumbnail .. Displays a thumbnail of reduced images (thumbnails) or folder icons.

Full Screen .. Provides a full screen display of the first displayable slide in the folder.

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	

PC Card Viewer	Initial Setting	Thumbnail
Option	Play Mode	Manual
Interval	5sec	
Repeat		Off
Progress Bar		On



Thumbnail



Full Screen

Play Mode

Applicable Projector: U4-136

This is the slide switching setting at the time of full screen display of the viewer screen. See “Using the PC Card Viewer” on Page E-62 for information about how to use the viewer.

Select item name “PC Card Viewer,” then press the ENTER button to open the sub menu.

Select “Play Mode” and select the setting contents with the SELECT ◀▶ buttons.

Manual Switches the slide manually.

Auto Switches the slides automatically from the beginning of the folder.

Initial Setting	Thumbnail
Play Mode	Manual
Interval	5sec
Repeat	Off
Progress Bar	On

Note:

When the input switching is changed to another input (e.g., RGB) and then switched back to the viewer screen, automatic play will commence from the file that was last selected.

Setup

Interval

Applicable Projector: U4-136

This is the setting of the slide automatic switching play time for the viewer screen.

See “Using the PC Card Viewer” on Page E-62 for information about how to use the viewer.

Select item name “PC Card Viewer,” then press the ENTER button to open the sub menu.

Select “Play Interval” and set the slide display time with the SELECT ◀▶ buttons. The setting can be made in 1-second units from 1 to 180 seconds.

Note

- * The play interval indicates the time during which the slide is displayed. The display processing time for slide switching is not included.
- * Only readable slides will be played automatically.

Initial Setting	Thumbnail
Play Mode	Manual
Interval	5 sec — [] +
Repeat	Off
Progress Bar	On

Repeat

Applicable Projector: U4-136

This setting determines whether or not viewer screen slides are played repeatedly at time of automatic switching play.

See “Using the PC Card Viewer” on Page E-62 for information about how to use the viewer.

Select item name “PC Card Viewer,” then press the ENTER button to open the sub menu.

Select “Repeat” and select the setting contents with the SELECT ◀▶ buttons.

Off Stops at the last slide.

On Repeatedly plays the slides in the folder.

Initial Setting	Thumbnail
Play Mode	Manual
Interval	5 sec — [] +
Repeat	Off
Progress Bar	On

Progress Bar

Applicable Projector: U4-136

This setting determines whether or not the progress bar is displayed at the time of a viewer screen reduced image or full screen display.

See “Using the PC Card Viewer” on Page E-62 for information about how to use the viewer.

Select item name “PC Card Viewer,” then press the ENTER button to open the sub menu.

Select “Progress Bar” and select the setting contents with the SELECT ◀▶ buttons.

Off Does not display the progress bar.

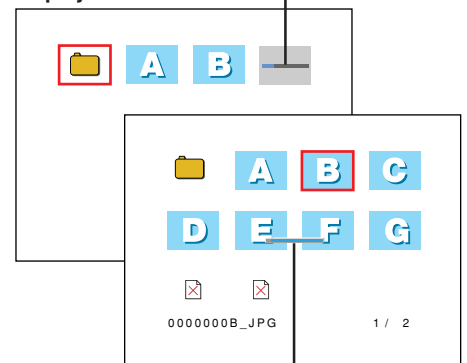
On Displays the progress bar.

Note:

Images of high resolution will take time in image conversion processing for reduced images or full screen display. An indication of the time until the end of conversion processing can be seen via the bar display. Please use this as a guideline for wait time.

Initial Setting	Thumbnail
Play Mode	Manual
Interval	5 sec — [] +
Repeat	Off
Progress Bar	On

Progress Bar During Thumbnail Display



Progress Bar During Switching to Full Screen Display

Setup





Language

This function sets the language that is displayed on screen in the messages and menu displays.

Select item name "Options" and press the ENTER button to open the Options sub menu.

Select item name "Language" and press the ENTER button to open the Language sub menu.

Select the language with the SELECT ▲▼ buttons.

Auto Source	On	
Auto Power Off	Off	
Memu Position		
Lamp Mode	Normal	
Input Format		English
Presentation Timer	Off	Deutsch
Logo Capture		Français
PC Card Viewer		Italiano
Option	Language	Español
	On Screen	Svenska
	Background	한국어
	Startup Screen	中文
		日本語

On Screen

This function switches on/off the messages displayed with a black frame such as the input signal information and the aspect ratio.

Select item name "Options" and press the ENTER button to open the Options sub menu.






Select item name "On Screen" and select the setting contents with the SELECT ◀▶ buttons.

On The message is displayed.

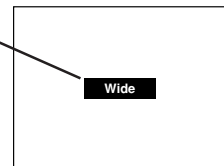
Off The message is not displayed.

Note:

Even when set to off, messages that are not in a black frame will be displayed.

Auto Source	On	
Auto Power Off	Off	
Memu Position		
Lamp Mode	Normal	
Input Format		
Presentation Timer	Off	
Logo Capture		
PC Card Viewer		
Option	Language	
	On Screen	On
	Background	Black
	Startup Screen	Logo

Example of a display when the ASPECT button is pressed



Background






This function sets the screen color when the input source is no-signal.

Select item name "Options" and press the ENTER button to open the Options sub menu.

Select item name "Background" and select the setting contents with the SELECT ◀▶ buttons.

Black Sets a black screen when there is no signal

Blue Sets a blue screen when there is no signal

Auto Source	On	
Auto Power Off	Off	
Memu Position		
Lamp Mode	Normal	
Input Format		
Presentation Timer	Off	
Logo Capture		
PC Card Viewer		
Option	Language	
	On Screen	On
	Background	Black
	Startup Screen	Logo

Startup Screen

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

See “Startup Logo Creation” on Page E-60 for information about using logo capture.

Select item name “Options” and press the ENTER button to open the Options sub menu.






Select item name “On Screen” and select the setting contents with the SELECT ◀▶ buttons.

Logo Displays the logo.

Blank Does not display the logo.

Note:

- * When “Logo” is selected at the startup screen, the “PLUS” logo will be displayed if the logo you created and captured is not set.
- * When logo capture is performed after “Blank” has been set, the setting of the starting screen will automatically display “Logo”.

Auto Source	On
Auto Power Off	Off
Memu Position	
Lamp Mode	Normal
Input Format	
Presentation Timer	Off
Logo Capture	
PC Card Viewer	
Option	Language 
	On Screen On
	Background Black
	Startup Screen Logo

Info.

- **Select menu name “Info.”**

See “Menu Operation Method” on Page E-36 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-41.

Status

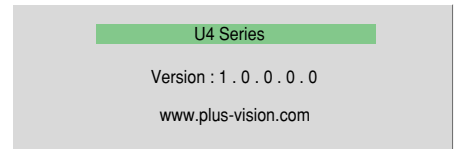
This displays information about the equipment.

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	↵
Factory Default	↵
Lamp Timer Reset	↵
Lamp Timer	1h



Factory Default

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

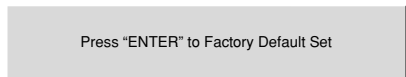
Select item name “Factory Default” and press the ENTER button.
There is a change to the display [Press “ENTER” to Factory Default Set].

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:

Projection method, Language and Lamp Timer

Status	↵
Factory Default	↵
Lamp Timer Reset	↵
Lamp Timer	1h



Lamp Timer Reset

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”.

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

Status	↵
Factory Default	↵
Lamp Timer Reset	↵
Lamp Timer	1h



Info.

Resolution / Frequency

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

Displays when analog RGB or digital RGB signal is projected.

Status	
Factory Default	
Lamp Timer Reset	
Resolution	1024 × 768
Frequency	75Hz 60kHz
Lamp Timer	12h

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-73 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	
Factory Default	
Lamp Timer Reset	
Lamp Timer	12h

Startup Logo Creation

The startup logo is a function that displays a created logo.

After turning on the power, a logo appears in about 15 seconds. The displayed logo disappears in about 30 seconds. A logo can be displayed by creating it on a personal computer, then projecting it with this projector and capturing it. See Pages E-51 to E-53 for information about the selection of “Logo Capture” and an explanation of the items.

Preparation and Projection of the Image

1. Using personal computer software, create an image that you would like to use on the startup screen, then save that file.
2. Connect the personal computer and the projector, then project the personal computer screen. The saved image will open.

Logo Capture Settings

1. **Open “Logo Capture” on the menu**
Select “Setup” → “Logo Capture” on the menu and press the ENTER button.
The logo capture sub menu will open.
2. **Set the Logo Background Color → Page E-51**
Select “Logo Background” and determine the background color.
When the background of the created image is white, selection of “White” permits creation of a seamless startup screen.
3. **Set the Logo Scaling → Page E-51**
Select “Logo Scaling” and set the size.
When a large magnification has been selected, the image will blur somewhat.
4. **Set the Logo Position → Page E-52**
Select “Logo Position” and determine the display position of the logo.
5. **Set the Compression Ratio → Page E-52**
Select “Capture Mode” and select image quality priority or capture range priority.

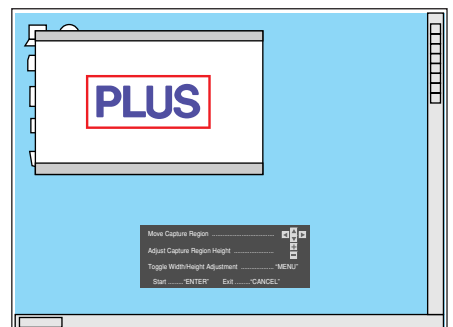
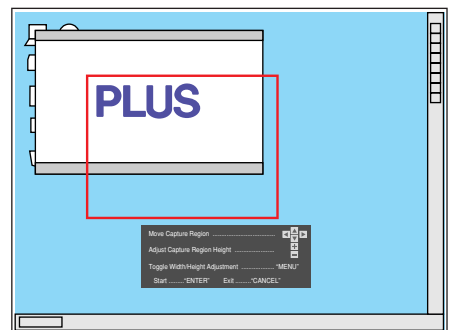
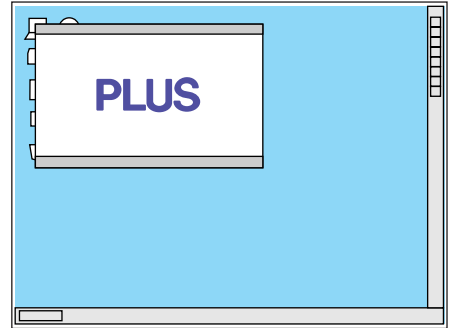
6. **Determine the Capture Range of the Image → Page E-53**

Select “Start Logo Capture” and press the ENTER button.
There is a change to the capture range selection display.

- (1) Use the SELECT ▲▼◀▶ buttons on the remote control to align the red frame with the upper left (starting point) of the image.

- (2) Press the “+”/“-” buttons and determine the capture size. The lower right (end point) will move. To switch between height and width, press the MENU button.

To cancel, press the CANCEL button. There is a return to the menu display.

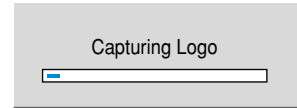


Startup Logo Creation

7. Start Capture → Page E-53

Selection will not be possible unless a signal is being input.
Pressing the ENTER button will start the capture.

- (1) While capture is operating, “Capturing Logo” is displayed and the advancement of the gauge is displayed.
- (2) When the capture is completed, “Logo Capture Complete” is displayed for about 10 seconds.
- (3) When a logo capture has already been saved, it will be overwritten.
 - When capture was not possible due to the logo size being too large, “Not Enough Space. Over Memory Limit ***%” is displayed. (***) represents a numerical value.)
Change the capture size using the percentage exceeded as a guide, or change the capture mode and start capture again.
 - When a mistake has been made in logo capture, the message “Logo Capture Failed” is displayed.
Please try it again.



8. Check the logo Capture Screen at Startup Time → Page E-53

Select “Preview” and press the ENTER button.
To close, press the ENTER button or the CANCEL button. There is a return to the menu display.

This completes the startup logo.
The next time the projector is started, the captured logo will be displayed.



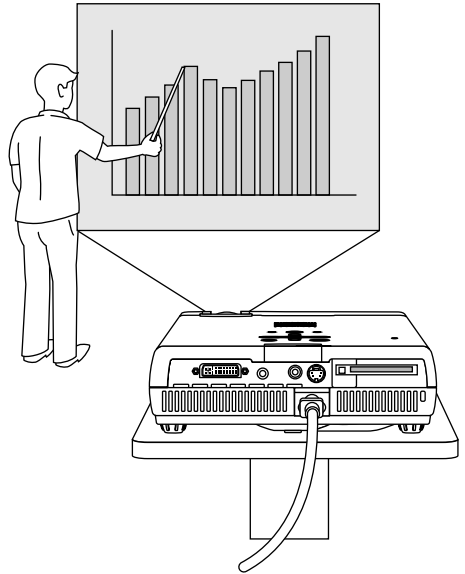
Note:

- * This function is for the logo. Full-color photographs with many colors that fill the projection screen cannot be captured. Please make such photographs into a small size.
- * Capture ranges that exceed the output resolution of the projector cannot be selected.
- * The area outside the red lines of the red frame becomes the selection range for the capture range selection.
- * To match the background color of the startup logo with the background color of the created image, examine the values (i.e., 0 to 255) of the RGB colors of the created image using image software and set the various values to the custom RGB of the logo background color.
- * Pressing the STANDBY button during the capture will not switch off the power. This is to prevent the loss of the capture data during the capture (by switching off the power). To switch off the power, please press the STANDBY button after the capture is completed.
- * When a mistake has occurred with the capture, the logo that was previously captured will also be deleted.

Before Using the PC Card Viewer

Slides that have been stored on CompactFlash Cards can be projected using the projector. Even without a personal computer, a presentation can be made using a stand-alone projector.

- Preparation by storing the documentation on CompactFlash Cards will suffice without the need to carry around a personal computer.
- Automatic slide play/repeat function is convenient for use in stores.
- Simplified display by selecting from thumbnail reduced images when searching for the desired slides.
- Can also play CompactFlash Cards that were used in digital camera photography. (Only JPEG, BMP, and PNG in the MS-DOS format)



Note:

CompactFlash Cards and Data Formats Supported by this Projector

- * Memory cards that can be used with this projector are CompactFlash Cards of the CFA specification.
 - * Image data that can be played by this projector are JPEG, BMP, and PNG of the MS-DOS format.
 - * Progressive JPEG cannot be played.
 - * Some images in the JPEG format cannot be played. Should this be the case, please convert the image format. See "Slide Creation Method" on Page E-63.
 - * Resolutions up to 2048 x 1024 can be displayed on this projector.
- The image data (PNG format 3000 x 2000 in 16 colors) of the PLUS electronic blackboards (the M-10 Series of CopyBoards) can be played.

Terminology Used in the Viewer

- Slide A single image file is called a slide.
- Folder A box in which gathered slides have been placed is called a folder. Boxes in which folders are further gathered and placed are called new folders and folders may be distinguished as required.
- Viewer screen A screen that has been switched to PC Card input is called a viewer screen.
- Thumbnail Display This is a display in thumbnail form of reduced images (thumbnails) and folder icons. When 12 thumbnails are exceeded, the new thumbnails are displayed on the next page. (One screen is called one page.)

Slide Creation Method

To use the PC Card Viewer, a slide must be created beforehand with a personal computer. Please see the Plus Vision home page for information about the slide creation method.

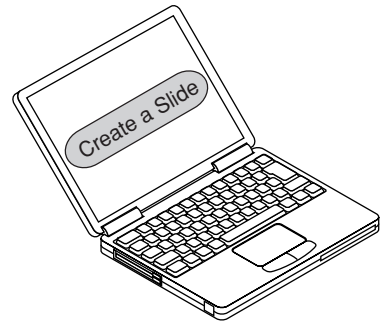
■ Slide Creation Guide

1. **Create a slide with the personal computer and then convert it to image data.**

Software that efficiently converts PowerPoint and other files, which cannot be displayed as is with the PC Card Viewer of this projector, to a displayable image format can be downloaded from the Web site below.

English language edition

<http://www.plus-vision.com/en/support/download.html>



Slide Creation Restrictions:

- Please convert the slide image to the JPEG, BMP, or PNG format.
- Images of high resolution will be converted to the display resolution of this projector or below and then displayed. Also note that images of high resolution may take time to be displayed.
- The number of slides that can be identified in one folder is 512.
- When there is an order in which the slides will be projected, please order in a sequence of ascending file names. The viewer displays in the order of 0 to 9 to A to Z.
- File names are within 8 alphanumeric characters and the extensions are 3 characters.

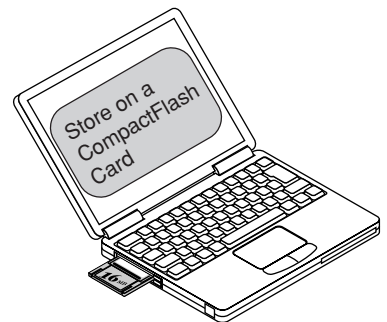
File names of more than 8 characters will take the form of XXXXXX~ W.YYY including the affixed tilde "~". (X is the file name and a number is automatically placed at the location of the W. YYY is the extension of the image format.)

Characters that cannot be used are converted and displayed.

2. **Store the images on a CompactFlash Card.**

Use the PC Card adapter that was supplied with the projector when the personal computer is equipped with a PC Card drive. See "Using CompactFlash Cards" on Page E-66.

When the personal computer is not equipped with a PC Card drive, please use a commercially available USB card writer/reader or other suitable equipment.



3. **Insert a CompactFlash Card into the PC Card slot of the projector.**

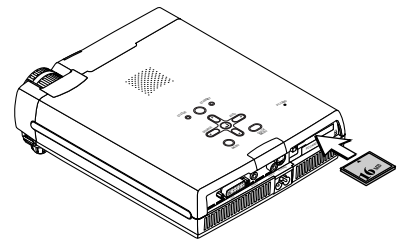
See "Using CompactFlash Cards" on Page E-66.

- Remove the PC Card adapter.

4. **Project the slide.**

Press the SOURCE button of the projector or the PC-CARD button of the remote control to switch to the PC Card Viewer.

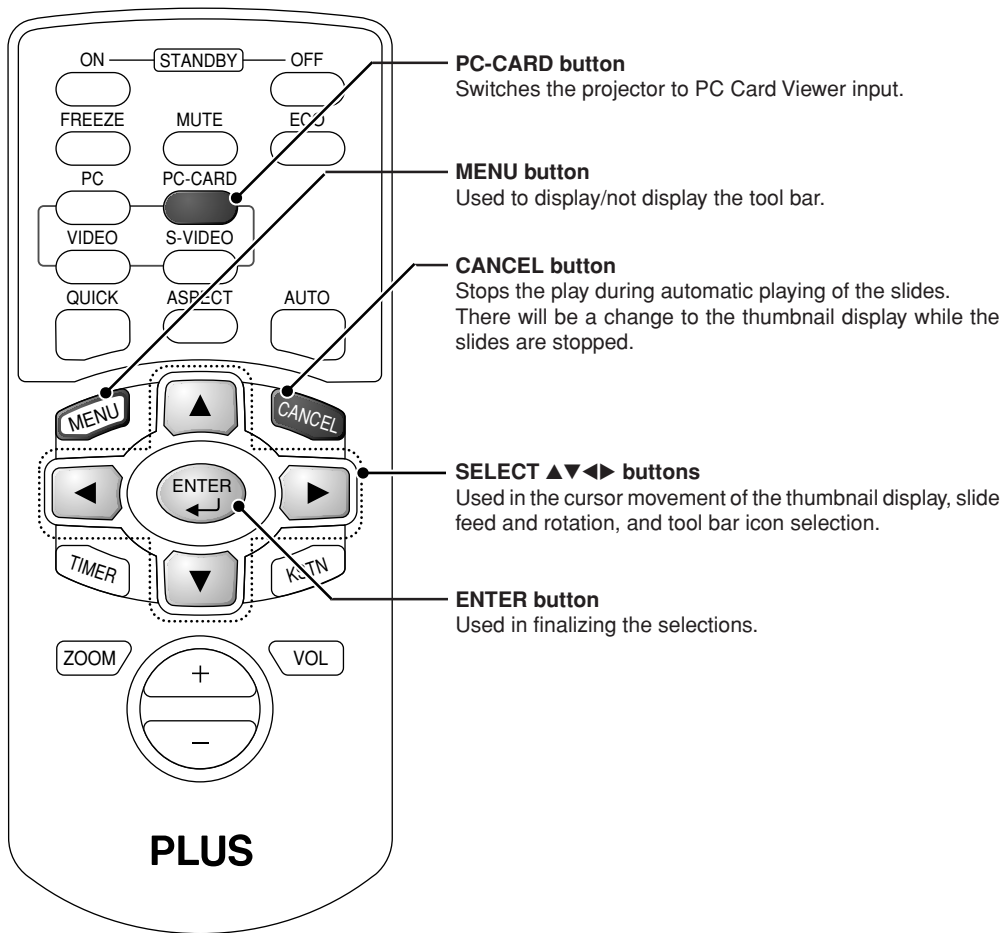
A thumbnail display or slide will be displayed. See "PC Card Viewer Operation" on Page E-67.



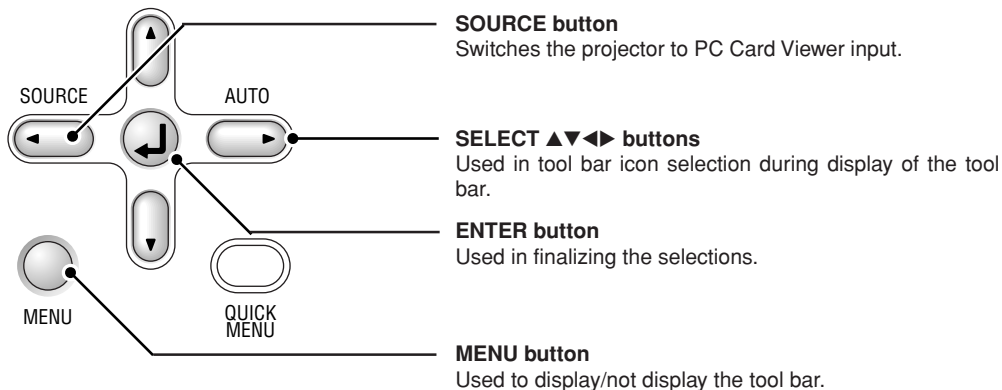
Names and Functions of the Viewer Functions

As an aid in viewer screen operation, this section describes the projector and remote control buttons, the display screen, names and functions, as well as the use of the tool bar.

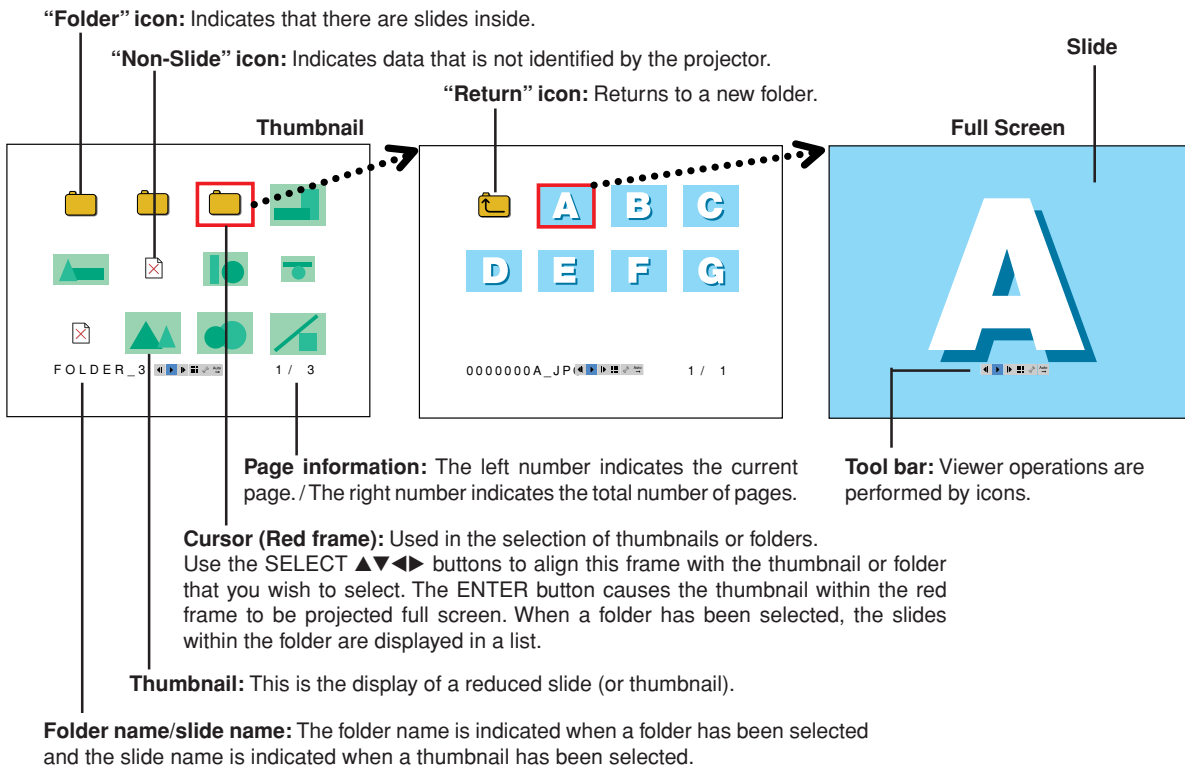
Names and Functions of the Remote Control Buttons Used in the Viewer Screen Operation



[Main unit buttons]



Names and Functions of the Viewer Screen Parts



Using the Tool Bar

While the viewer screen is displayed, a press of the MENU button will display a tool bar for the viewer operations. Align the (blue) cursor with the desired icon using the SELECT (◀▶) buttons, then press the ENTER button for the operation.



- ◀ Page reverse feed icon Reverse feed of the page (Operates only with the thumbnail display.)
- ▶ Page order feed icon Sequential feed of the page (Operates only with the thumbnail display.)
- ▶ Play icon Automatic play (When the play icon has been finalized, it turns into the stop icon.)
- Stop icon Automatic play cancel (When the stop icon has been finalized, it turns into the play icon.)
- ☐ Thumbnail icon At the time of full screen display, this causes a return to the thumbnail display. (Operates only in a full screen display.)
- ⚙ Settings icon Displays the “PC Card Viewer” settings menu.
- Auto → Status icon Displays the setting conditions of the menu [Play mode] and [Repeat].

Note:

- * A press of the MENU button or the CANCEL button while the tool bar is being displayed will close the tool bar. Note also that the tool bar will close automatically when there has not been a button operation in about 30 seconds.
- * A press of the Menu button while the quick menu is being displayed will display the tool bar.

Using CompactFlash Cards

CompactFlash Cards are used to store the slides created on the personal computer and then play them on the projector.

■ Insertion to the PC Card Slot

Hold the CompactFlash Card with the top surface facing upward and keeping the card level, slowly insert it into the PC card slot. When it has been inserted completely, the PC Card eject button will pop out.

Precautions

Orientation of CompactFlash Card Insertion

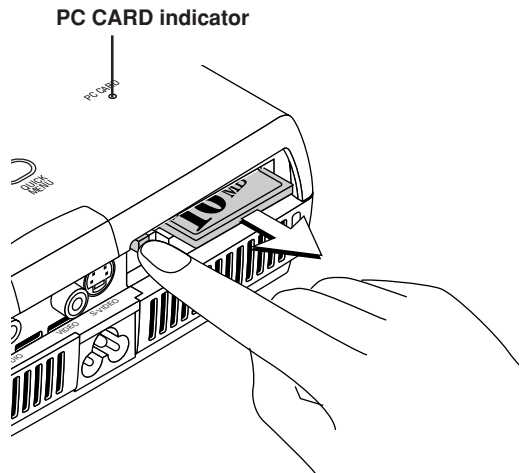
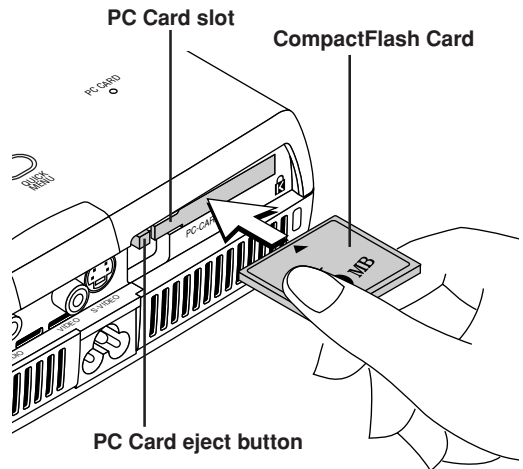
The CompactFlash Card is designed to be inserted in only one direction. Attempting to insert it the other way will not work, but forcefully pushing it in will cause damage to the projector. Please see the instruction manual of the CompactFlash Card, if available, for information about the insertion orientation.

■ Removal from the PC Card Slot

Pressing the PC Card eject button will cause the card to pop out a little. Hold both edges of the card and remove it.

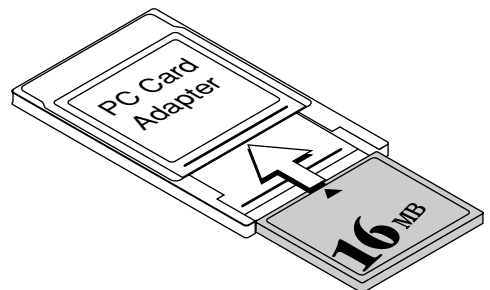
Precautions

Do not eject the card when the PC Card indicator alternately flashes orange and green (which indicates that card data is being accessed). Doing so might damage the CompactFlash Card.



Insertion to the PC Card Slot of the Personal Computer

Hold the CompactFlash Card in the proper orientation as illustrated in the diagram and firmly insert it into the supplied PC Card adapter. Following this, insert the adapter into the PC Card slot of the personal computer.



PC Card Viewer Operation

This description reflects the PC Card Viewer settings as they were at the time of shipping from the factory.

Preparation: Insert the CompactFlash Card into the card slot of the projector. See Page E-66.

1. Switch the Input to the PC Card

Remote control operation: Press the PC-CARD button.

Projector operation: Press the SOURCE button a number of times and set to PC-CARD.

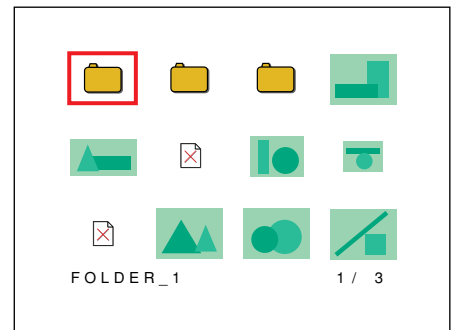
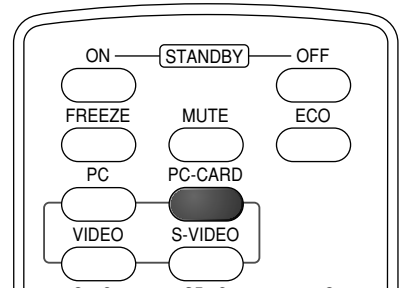
The PC CARD indicator of the projector will light and the list in the PC Card will be displayed.

- When [PC Card Viewer] → [Initial Settings] of the menu is set to "Full screen display," the slides will be projected. Also, when [PC Card Viewer] → [Play mode] of the menu is set to "Automatic," automatic play will commence from the first slide in the first folder. See Page E-54 for information about the settings.

When "PC Card Error" is displayed,


the CompactFlash Card that you are using cannot be properly identified.

- Insertion of the CompactFlash Card might be incomplete or it could possibly be damaged.
- The CompactFlash Card might not be of the CFA specification.
- Please try with a different CompactFlash Card.



Thumbnail

Note:

- * When the slide is contained in a folder, the folder icon will be displayed.
- * Slides that cannot be displayed with this projector will be indicated by the  icon display.
- * Slides comprising a large amount of data will take time until the thumbnail is displayed. Setting [PC Card Viewer] → [Progress Bar] of the menu to "On" will display a guideline for the wait time. See Page E-55.
- * A press of the Menu button during PC Card Viewer operation will display the tool bar. One more press will close the tool bar display.
- * When displaying menu screen of the projector, select the settings icon of the tool bar. (Page E-65)

Using the PC Card Viewer

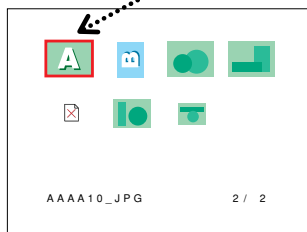
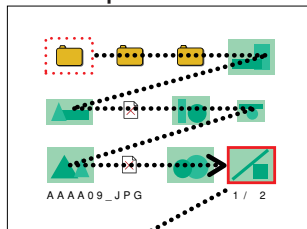
2. Use the SELECT ▲▼◀▶ buttons to align the cursor with the desired thumbnail or folder icon.

When a folder icon has been selected, press the ENTER button. The folder will open allowing you to select a thumbnail.

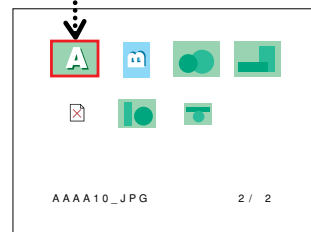
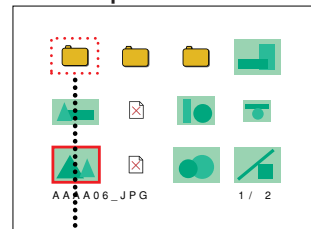
Selection Method

- Each press of the SELECT ► button moves the cursor one step in the sequence from the upper left of the screen to the bottom right. When thumbnails or folders are located on multiple pages, further pressing the button will move the cursor to the next page. To return, press the SELECT ◀ button.
- When a folder has been selected and opened, the 📁 (Return) icon is displayed at the upper left. To return to a new folder, align the cursor with the 📁 (Return) icon and press the ENTER button.
- To move swiftly to the next page, press the SELECT ▼ button. The cursor will move to the very bottom of the screen. One more press will move it to the next page. To return the cursor, use the SELECT ▲ button.
- The page will be sent in the same way by selecting the ◀ or ▶ icon of the tool bar and pressing the ENTER button.

When the SELECT ► button has been pressed



When the SELECT ▼ button has been pressed



3. A press of the ENTER button will change the thumbnail at the cursor position into a full screen display.

Selection is also permitted using the ► icon of the tool bar. See Page E-65.

Note:

- * When a folder icon is selected, the folder will open. Please make the selection using the operation of Step 2.
- * When [PC Card Viewer] → [Play mode] of the menu is set to "Automatic," automatic play will begin. See Page E-54.

Precautions

- * Data is being read when the PC CARD indicator alternately flashes orange and green. Do not remove the CompactFlash Card at this time. Doing so will cause a loss of data.



Continued on next page

4. View the Slides

The SELECT (◀▶) buttons permit the slides to be viewed in a forward or reverse sequence.

- To stop the slides during automatic play, press the ENTER button. The slides can also be stopped with the ■ (Stop) icon on the tool bar.

See Page E-65 for information about using the tool bar.



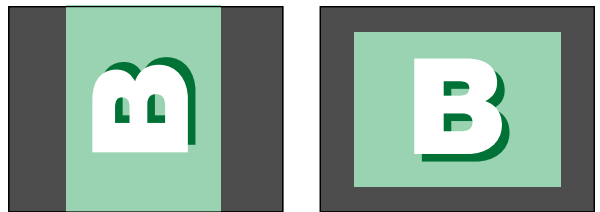
Rotation of the Slides

- When the slide image is in the horizontal orientation, it can be rotated using the SELECT (▲▼) buttons.

SELECT (▲) button ... 90 degrees clockwise

SELECT (▼) button ... 90 degrees counterclockwise

Slide rotation is stored in memory only during full screen display.



Thumbnail Display and Settings Changes

- A press of the CANCEL button or the ENTER button during a full screen display will cause a return to the thumbnail display. Selection of the ■■■ (Thumbnail) icon of the tool bar and press the ENTER button will also cause a return to the thumbnail display.
- A press of the CANCEL button while the tool bar is displayed will close the tool bar display and one further press of the button will cause a return to the thumbnail display.
- To change the settings of the PC Card Viewer, select the ⚙ (Settings) icon of the tool bar and press the ENTER button. This will display the [PC Card Viewer] settings of the menu. See Pages E-54 and E-55 for information about making the settings.

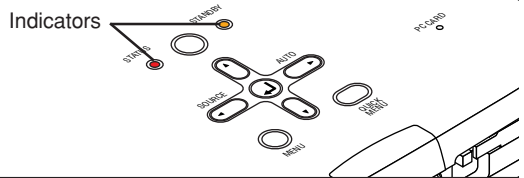
When the “File Open Error” is Displayed...






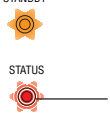
- The selected image cannot be displayed full screen.
- Once again store the image that could not be displayed full screen in the CompactFlash Card, then try to display the image with the PC Card Viewer. Note that when this error display appears, operation of the SELECT (◀▶) buttons or the ENTER button can display the next image or display a thumbnail.

When an Indicator is Lit or Flashing

The indicators on the projector's control panel light or flash 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-24.



Indicator status	What you should do
 <p>When the power is on (Lit green) Standby (Lit amber) Lit red</p>	<p>It is time to replace the lamp. Replace with a new lamp cartridge.</p>
 <p>Flashing amber for 60 seconds, then lit amber Lit red</p>	<p>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.</p>
 <p>Lit red Flashing red (lit for 1 seconds/off for 1 seconds)</p>	<p>The lamp cover is open. The lamp cover is not properly mounted. Mount it properly.</p>
 <p>Lit red Flashing red (lit for 0.5 seconds/off for 0.5 seconds)</p>	<p>The temperature is abnormally high.</p> <ul style="list-style-type: none"> 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 1 minute, then try again.
 <p>Lit amber Flashing red (lit for 0.5 seconds/off for 0.5 seconds)</p>	<p>The fan has stopped. Unplug the power cable and contact a store that sells the U4-136/U4-112/U4-131/U4-111 for repairs.</p>
 <p>When the lamp has burned out during use Flashing amber for 60 seconds, then lit amber When the lamp does not come on from the start Lit amber Flashing red (lit for 1 seconds/off for 1 seconds)</p>	<p>The lamp will not light. Wait at least 1 minute, then turn the power back on. If the problem persists, unplug the power cord and contact a store that sells the U4-136/U4-112/U4-131/U4-111 for repairs.</p>

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

When the temperature inside the projector becomes abnormally high, the STATUS indicator flashes red (0.5 seconds on/0.5 seconds 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.

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	Reference Page
Power does not turn on	<ul style="list-style-type: none"> 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? 	E-24 E-75 E-70 E-70
No image is produced	<ul style="list-style-type: none"> 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 flashing 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 properly selected? For an analog RGB input, has the picture been properly adjusted? 	E-50 E-18–23 E-20 E-77 E-43 E-70 E-50 E-43, 44
Image is distorted	<ul style="list-style-type: none"> Is the projector properly installed? For trapezoidal (keystone) distortion, perform keystone adjustment. 	E-27 E-33, 48
Image is out of focus	<ul style="list-style-type: none"> 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. 	E-28 E-14–17 E-14–17 –
Image is not in proper position and is not displayed properly	<ul style="list-style-type: none"> 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-44 E-77
Video image is crushed	<ul style="list-style-type: none"> 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-30
Colors of the overall image are strange	<ul style="list-style-type: none"> When a component signal is being input, is the color space setting proper? For a composite input, is the hue properly adjusted? 	E-46 E-43
Characters flicker or colors are offset for analog RGB inputs	<ul style="list-style-type: none"> From the menu, select "Picture" and adjust the clock frequency and phase. 	E-43, 44
Cannot select the menu name	<ul style="list-style-type: none"> 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. 	–
The item name "Start Logo Capture" of the sub menu cannot be selected	<ul style="list-style-type: none"> Selection is not possible unless a signal is being input. 	–
Remote control unit does not operate	<ul style="list-style-type: none"> 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 lit red or flashing red	<ul style="list-style-type: none"> See "When an indicator is lit or flashing". 	E-70
"Viewer System Error" is displayed Applicable Projector: U4-136	<ul style="list-style-type: none"> The viewer system is being restarted because of an internal processing error. Repeated display of this message could indicate a product fault. Please contact your store of purchase. 	–

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.

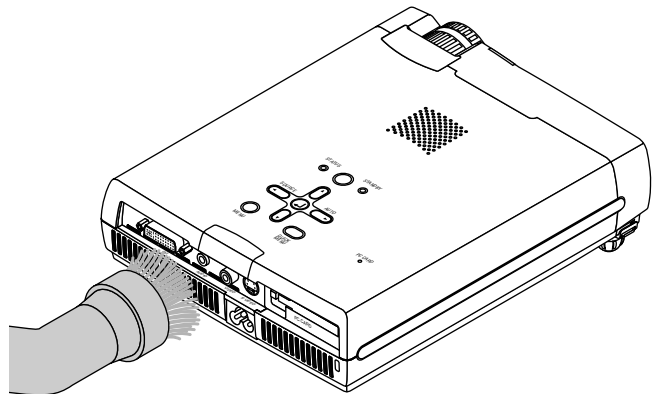
Dirty Lens

- 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 U4-136/U4-131/U4-112/U4-111 for a replacement lamp. Indicate you need a U4-150 replacement lamp for the U4-136/U4-131/U4-112/U4-111 (order code 28-061).

CAUTION

- 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.

Replacing the Lamp Cartridge

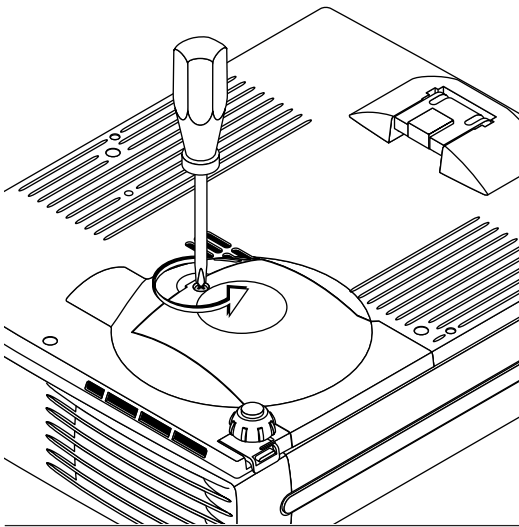
Preparations: Turning the projector upside-down on top of a soft cloth, etc., so that it does not get scratched makes it easier to replace the lamp cartridge. Turn the projector right-side up after replacing the lamp cartridge.

1 Unplug the power cord.

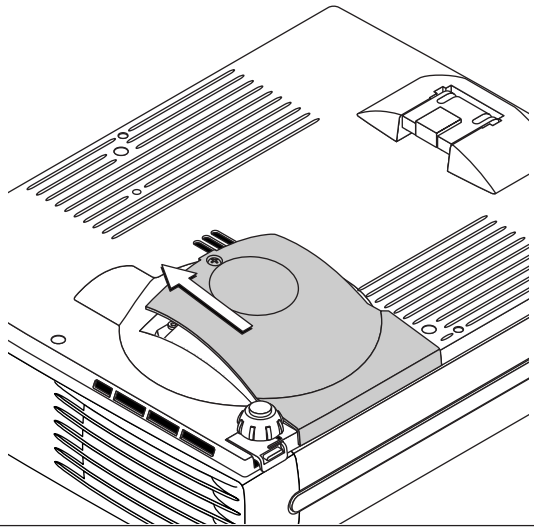
2 Turn the projector upside-down.

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.)

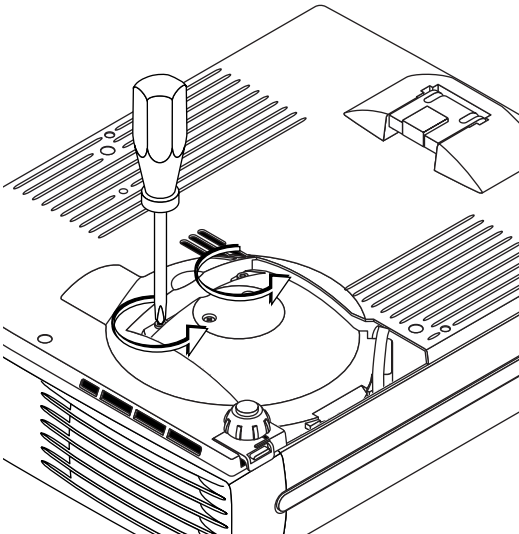


(2) Open the lamp cover a little, then pull it in the direction of the arrow and remove it.

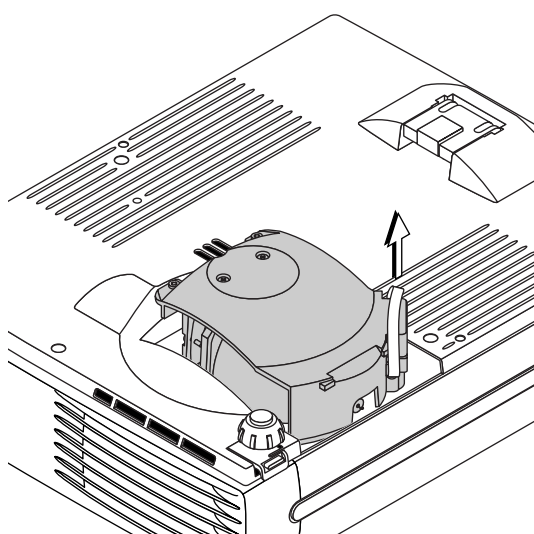


4 Remove the lamp cartridge.

(1) Turn the lamp cartridge's two set screws counterclockwise and loosen them until the screws turn freely. (The screws do not come off.)



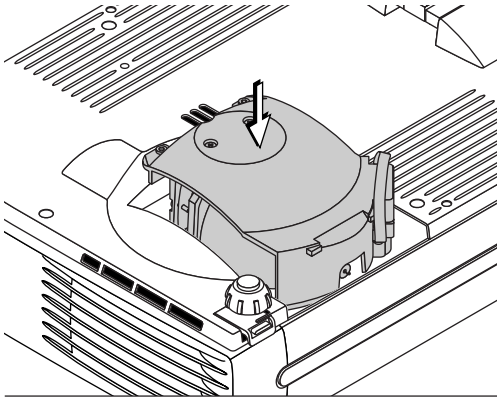
(2) Grasp the lamp cartridge's handle and pull upward to remove the lamp cartridge.



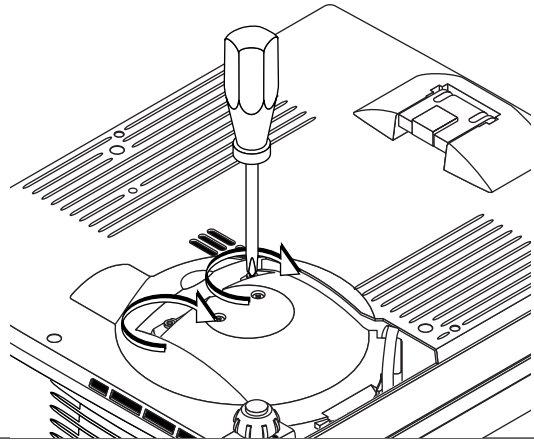
Replacing the Lamp Cartridge

5 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.)

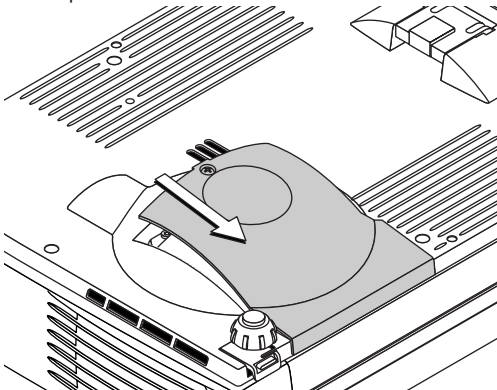


(2) Turn the two lamp cartridge screws clockwise to tighten them.

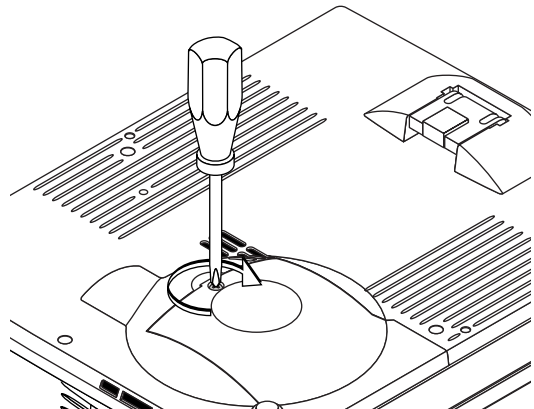


6 Mount the lamp cover.

(1) Set the tip of the lamp cover in place, then close the lamp cover.



(2) Turn the lamp cover's screw clockwise to tighten it.



7 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-58.

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 U4-136/U4-131/U4-112/U4-111 for a replacement lamp. Indicate you need a U4-150 replacement lamp for the U4-136/U4-131/U4-112/U4-111 (order code 28-061).

Specifications

Model U4-136/U4-131/U4-112/U4-111

Optical

Method of projection : DLP™ (single chip DMD)
 DMD **U4-136/U4-131:** 0.7 inches 1024 × 768 dots
U4-112/U4-111: 0.55 inches 800 × 600 dots

Lamp 150 W high pressure mercury lamp

Projection lens : See below

Image size See below

Light Output **U4-136/U4-131:** 1500 ANSI lumens
U4-112/U4-111: 1300 ANSI lumens

Contrast Ratio 1500:1 (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)

Output VGA (640 × 480), S-VGA (800 × 600), XGA (1024 × 768)

Color Reproduction Full color (16,770,000 colors)

Resolution **U4-136/U4-131:** VGA (640 × 480) expansion/true, S-VGA (800 × 600) expansion/true
 XGA (1024 × 768) true, S-XGA (1280 × 1024) compression
U4-112/U4-111: VGA (640 × 480) expansion/true, S-VGA (800 × 600) true
 XGA (1024 × 768) compression

Input Current 2.0 A

Power Requirement 100 - 240 V AC, 50/60 Hz

Power Consumption 200 watts

Mechanical

Dimensions Excluding Stand 190 mm (W) × 53 mm (H) × 239 mm (D)
 7.5 in.(W) × 2.1 in.(H) × 9.4 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

Regulations UL Approved (UL 60950, CSA 60950)

Meets FCC Class A requirements **Applicable Projector: U4-131/U4-111**

Meets FCC Class B requirements **Applicable Projector: U4-136/U4-112**

Meets EMC Directive (EN55022, EN55024)

Meets Low Voltage Directive (EN60950)



	U4-136	U4-131	U4-112	U4-111
Projection lens	Manual zoom (× 1.2) Manual focus F = 2.6 – 2.9, f = 27.5 – 33.0 mm	Fixed focus Manual focus F = 2.4, f = 23 mm	Manual zoom (× 1.2) Manual focus F = 2.6 – 2.9, f = 27.5 – 33.0 mm	Fixed focus Manual focus F = 2.4, f = 23 mm
Image size	Minimum 26 inch (at projection distance of 1.2 m telephoto) Maximum 200 inch (at projection distance of 7.86 m wide)	Minimum 36 inch (projection distance 1.2 m) Maximum 200 inch (projection distance 6.6 m)	Minimum 20 inch (at projection distance of 1.2 m telephoto) Maximum 200 inch (at projection distance of 10.16 m wide)	Minimum 28 inch (projection distance 1.2 m) Maximum 200 inch (projection distance 8.5 m)

	U4-136	U4-131	U4-112	U4-111
Projection lens	Manual zoom (× 1.2) Manual focus F = 2.6 – 2.9, f = 1.1 – 1.3 inch	Fixed focus Manual focus F = 2.4, f = 0.9 inch	Manual zoom (× 1.2) Manual focus F = 2.6 – 2.9, f = 1.1 – 1.3 inch	Fixed focus Manual focus F = 2.4, f = 0.9 inch
Image size	Minimum 26 inch (at projection distance of 3.9 feet telephoto) Maximum 200 inch (at projection distance of 25.8 feet wide)	Minimum 36 inch (projection distance 3.9 feet) Maximum 200 inch (projection distance 21.7 feet)	Minimum 20 inch (at projection distance of 3.9 feet telephoto) Maximum 200 inch (at projection distance of 33.3 feet wide)	Minimum 28 inch (projection distance 3.9 feet) Maximum 200 inch (projection distance 27.9 feet)

• Specifications and design are subject to change without notice.

Table of Supported Frequency

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-43, 44.

Signal	Resolution	Frequency		Video	Digital		Analog	
		Horizontal (kHz)	Vertical (Hz)		XGA	SVGA	XGA	SVGA
VIDEO(NTSC)	-	15.734	60.0	○	-	-	-	-
VIDEO(PAL/SECAM)	-	15.625	50.0	○	-	-	-	-
VESA	640 × 350	31.5	70.1	-	-	-	○	○
	640 × 350	37.9	85.1	-	-	-	○	○
	720 × 350	31.54	70.0	-	-	-	○	○
	640 × 400	31.5	70.1	-	-	-	○	○
	640 × 400	37.9	85.1	-	-	-	○	○
	720 × 400	31.5	70.0	-	○	○	○	○
	720 × 400	37.9	85.0	-	-	-	○	○
	640 × 480	31.5	60.0	-	○	○	○	○
	640 × 480	37.9	72.8	-	○	○	○	○
	640 × 480	37.5	75.0	-	○	○	○	○
	640 × 480	43.3	85.0	-	○	○	○	○
	800 × 600	35.2	56.3	-	○	○	○	○
	800 × 600	37.9	60.3	-	○	○	○	○
	800 × 600	46.9	75.0	-	○	○	○	○
	800 × 600	48.1	72.2	-	○	○	○	○
	800 × 600	53.7	85.1	-	○	○	○	○
	1024 × 768	48.4	60.0	-	○	○	○	○
	1024 × 768	56.5	70.1	-	○	○	○	○
1024 × 768	57.7	72.0	-	○	○	○	○	
1024 × 768	60.0	75.0	-	○	○	○	○	
1024 × 768	68.7	85.0	-	○	○	○	○	
1280 × 1024	64.0	60.0	-	○	-	○	-	
Apple Macintosh	640 × 480	35.0	66.7	-	○	○	○	○
	823 × 624	49.7	74.5	-	○	○	○	○
	1024 × 768	60.2	74.9	-	○	○	○	○
	1152 × 870	68.7	75.1	-	-	-	○	○
HDTV(1080i) (720p)	1920 × 1080	33.75	60.0	○	-	-	-	-
	1280 × 720	45.0	60.0	○	-	-	-	-
SDTV(480p)	720 × 480	31.47	59.94	○	-	-	-	-

* The model name for XGA is U4-136/U4-131 and SVGA U4-112/U4-111.

○ : Supported frequency

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

- : Not supported frequency

U4-136/U4-131

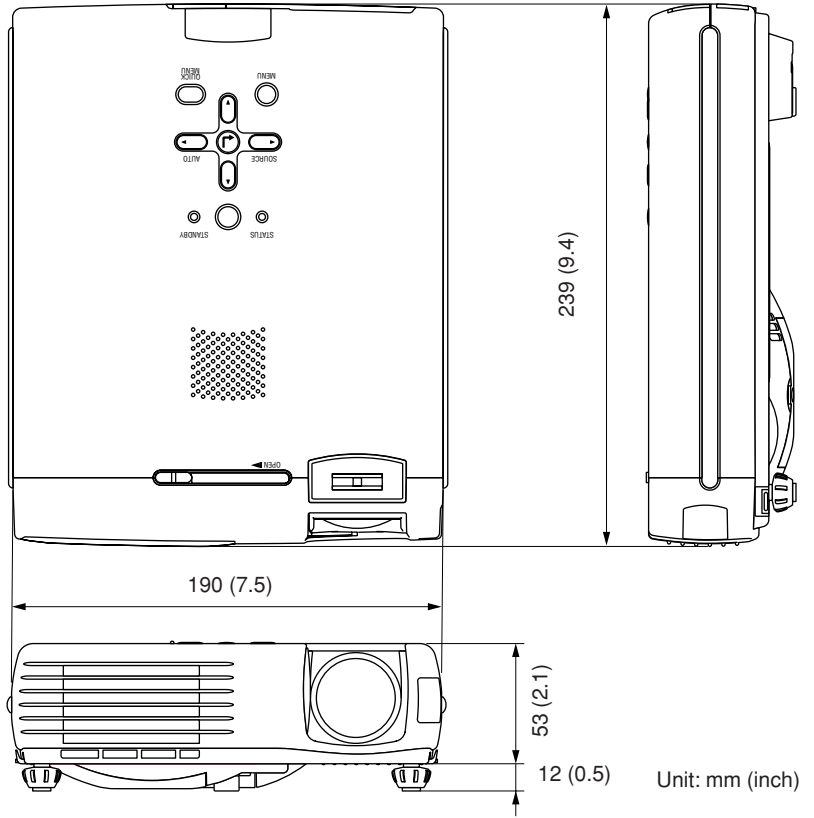
The display resolution is 1024 × 768 dots. When displaying a signal with resolutions other than 1024 × 768 dots such as 1280 × 1024, sizes of characters or lines may be uneven.

U4-112/U4-111

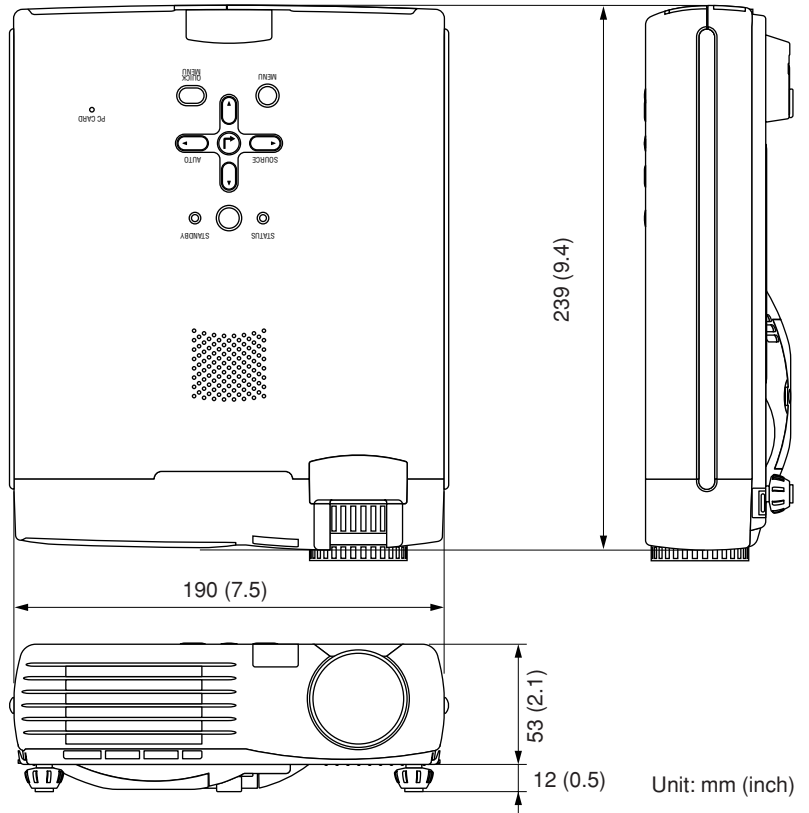
The display resolution is 800 × 600 dots. When displaying a signal with resolutions other than 800 × 600 dots such as 1024 × 768, sizes of characters or lines may be uneven.

Cabinet Dimensions

Applicable Projector:
U4-131/U4-111



Applicable Projector:
U4-136/U4-112



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Iruma Factory of PLUS Vision Corp. has
ISO 9001 certification.
Certificate No. 12 100 17398 TMS



Iruma Office/Iruma Factory of PLUS Vision Corp. has
ISO 14001 certification.
Certificate No. NQE-0210118A