

**SONY**<sup>®</sup>

# LCD Video Projector

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Operating Instructions

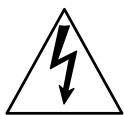
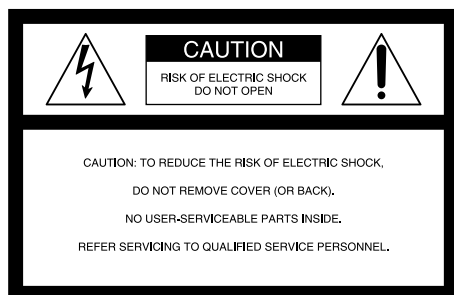
EN

VPL-W400Q  
VPL-W400QM

# WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in Canada

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

For the customers in the United Kingdom

**WARNING**

**THIS APPARATUS MUST BE EARTHED**

**IMPORTANT**

This wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol Y or coloured green or green-and-yellow.

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

Voor de klanten in Nederland



Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

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# Precautions

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## On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet or set the MAIN POWER switch to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.

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## On installation

- When the projector is mounted on the ceiling, the Sony PSS-500 Projector Suspension Support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 10 cm (4 inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that the temperature near the installation location is not excessive.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

### Caution

The projector is equipped with suction holes at the bottom and exhaust holes on the rear. Do not block these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

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## On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

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## On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

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## On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

# Features

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## High brightness, high picture quality

- **High brightness**  
Adopting the long service life metal halide lamp and new developed optical system allow high brightness (light output 400 ANSI lumen) and excellent uniformity on the picture.
- **High resolution**  
By using three 1.35 inch panels, this projector offers resolution of 600 horizontal TV lines for composite video input.
- **Superior color reproduction**  
The superior characteristics of the metal halide lamp and the optical design of the projector allow superior color reproduction.

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## High portability

This projector comes with convenient features for transportation such as a carrying handle and a Remote Commander pocket on the cabinet to keep the Remote Commander.

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## Wide (16:9) aspect

Thanks to the panel whose aspect ratio is 16:9, it is possible to project not only ordinary 4:3 but also 16:9 picture. In wide mode, you can enjoy other 4 picture modes, FULL/ZOOM/SUB TITLE/WIDE ZOOM, using whole 1068 × 480 pixels.  
When AUTO WIDE function is set to ON, the picture is automatically set to wide mode when the letter box signal is received.

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## Memory function

This projector has five kinds of memory for each of VIDEO and INPUT-A input signal which stores picture condition. You can get an optimum picture by selecting the memory.

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## Flexible setup

This projector is designed to be installed on the table or the ceiling. A 1.6x zoom lens is provided as standard equipment.

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## Accepts various input signals

You can project pictures from VCRs , 15k RGB video equipment, video cameras and HDTV<sup>1)</sup> equipment.

- **Compatible with five color systems**  
NTSC, PAL, SECAM, NTSC 4.43<sup>2)</sup>, or PAL-M color system can be selected automatically or manually.

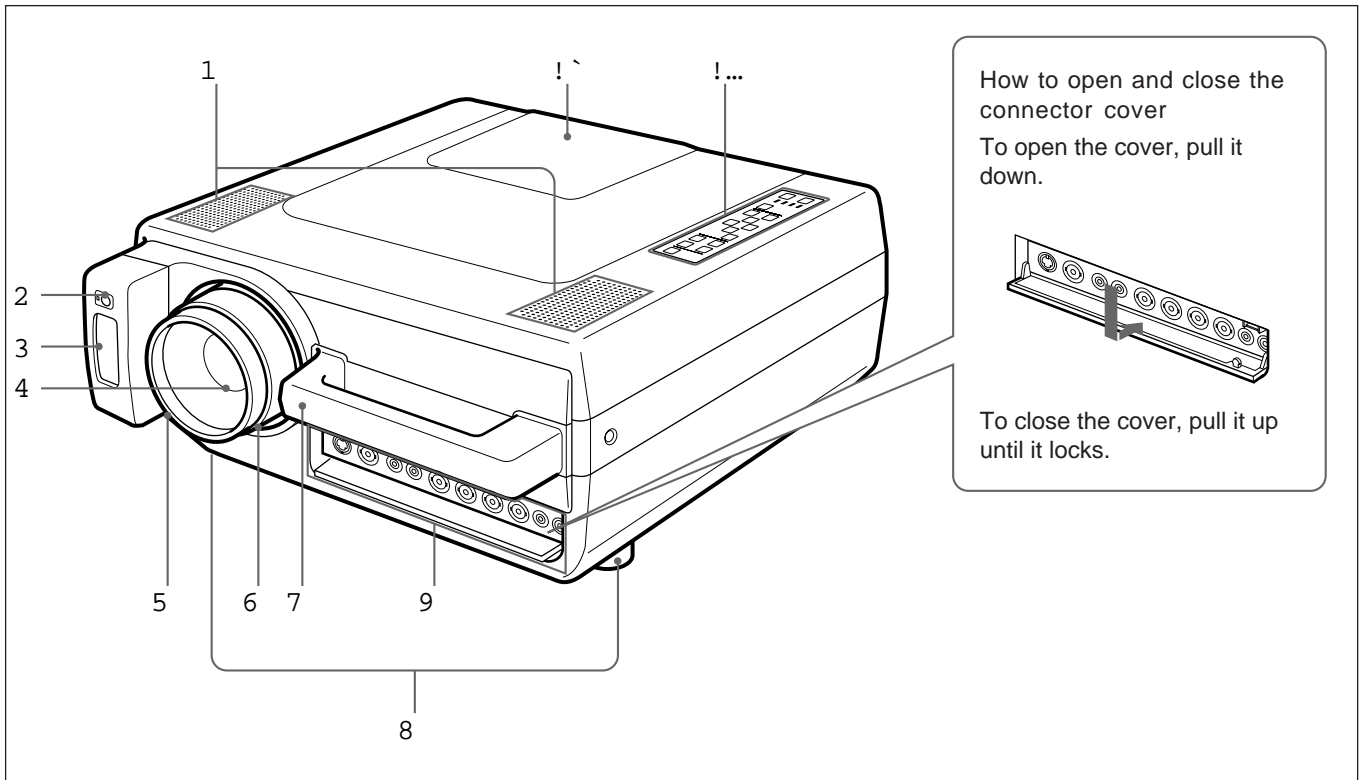
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1) 1125/60 interlaced HDTV Studio Standard

2) NTSC4.43 is the color system used when playing back a video recorded on NTSC on a NTSC4.43 system VCR.

# Location and Function of Controls

## Front



### 1 Speakers

### 2 Front remote control detector

### 3 Remote Commander pocket

Houses the supplied Remote Commander. When inserting the Remote Commander, make sure the infrared transmitter is facing forwards and push it until it clicks.

To take out the Remote Commander from the pocket, push it once and pull it out.

### 4 Lens

Remove the lens cap before projection.

### 5 Focus ring

Adjusts the picture focus.

### 6 Zoom ring

Adjusts the size of the picture.

### 7 Carrying handle

Use the handle for carrying the projector.

### 8 Adjusters

Use the adjusters to keep the projector level if it is installed on an uneven surface.

### 9 Connector panel

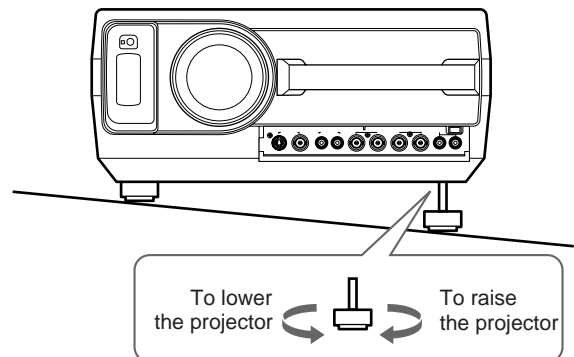
For details, see page 9.

### ! ° Control panel

For details, see page 8.

### ! j Lamp cover

## How to use the adjusters



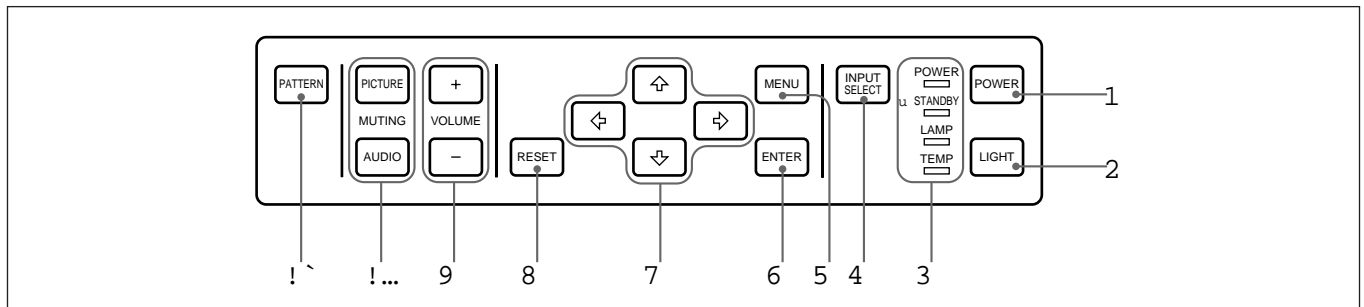
While lifting the projector, turn the adjusters and adjust the height so that the projector becomes level.

### Note

Be careful not to let the projector down on your fingers.

# Location and Function of Controls

## Control Panel



### 1 POWER key

Press to turn the projector on and off once the projector is in the standby mode. The POWER indicator lights in green when the power is turned on. When turning off the power, press and hold the POWER key for about one second.

### 2 LIGHT key

Lights the back lighting (orange) for the control panel when the power is turned on. Press again to turn off the back lighting.

### 3 Indicators

**POWER:** Lights in green when the power is turned on. Flashes in green while the cooling fan runs after turning off the power with the POWER key. The fan runs for about 1 minute and 30 seconds after turning off the power. The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on with the POWER key.

**STANDBY:** Lights in red when the MAIN POWER switch at the rear of the projector is turned on. Once in the standby mode, you can turn the projector on and off with the POWER key on the control panel or the Remote Commander.

#### Note

When the MAIN POWER switch is turned off, there will be a slight delay before the indicator goes off.

**LAMP:** Lights up or flashes under the following conditions:

- Lights up when a trouble has prevented the lamp from lighting.
- Flashes when the lamp cover or air filter cover is not secured firmly.

#### Note

When the LAMP indicator lights up, never open the lamp cover if the projector is installed on the ceiling.

**TEMP (Temperature):** Lights up or flashes under the following conditions:

- Lights up when temperature inside the projector becomes unusually high.
- Flashes when the fan inside the projector stops.

For details on the LAMP and the TEMP indicators, see page 34.

### 4 INPUT SELECT key

Selects the input signal. Each time the key is pressed, signal from equipment connected to VIDEO IN and INPUT-A connectors is selected alternately.

### 5 MENU key

Press to display the on-screen menu. Press again to clear the menu.

### 6 ENTER key

Press to enter the settings of items in the menu system.

### 7 Arrow keys (V/v/B /b)

Used to move the on-screen cursor or to make various adjustments.

### 8 RESET key

Press to restore the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

### 9 VOLUME +/- keys

Adjust the volume of the built-in speakers and output level of the AUDIO OUT connectors.

- + : Increases the volume.
- : Decreases the volume.

### ! ° MUTING keys

Cuts off the picture and sound.

**PICTURE:** Press to cut off the picture. Press again to restore the picture.

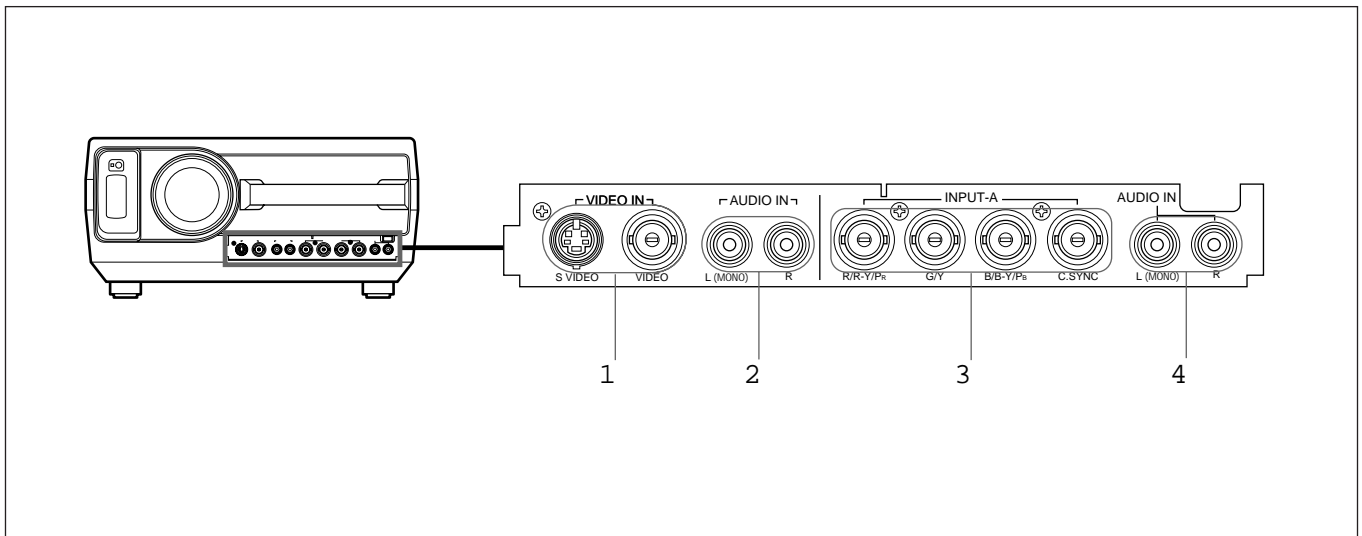
**AUDIO:** Press to cut off the sound. Press again or press the VOLUME + key to restore the sound.

### ! j PATTERN key

Display a pattern on the screen for focus adjustment. Press again to clear the pattern.



## Connector Panel



### 1 VIDEO IN connectors

**S VIDEO (mini DIN 4-pin):** Connects to the S video output (Y/C video output) of a video equipment.

**VIDEO (BNC-type):** Connects to the composite video output of video equipment.

#### Note

If you have video equipments connected to both the S VIDEO and VIDEO connectors, the signal from the S VIDEO is selected. When showing video connected to the VIDEO connector, be sure not to connect a cable to the S VIDEO connector.

### 2 AUDIO IN L (MONO)/R jacks (phono type)

When you connect the equipment to the VIDEO IN connectors, connect to the audio output jacks of the equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

### 3 INPUT-A connectors (BNC-type)

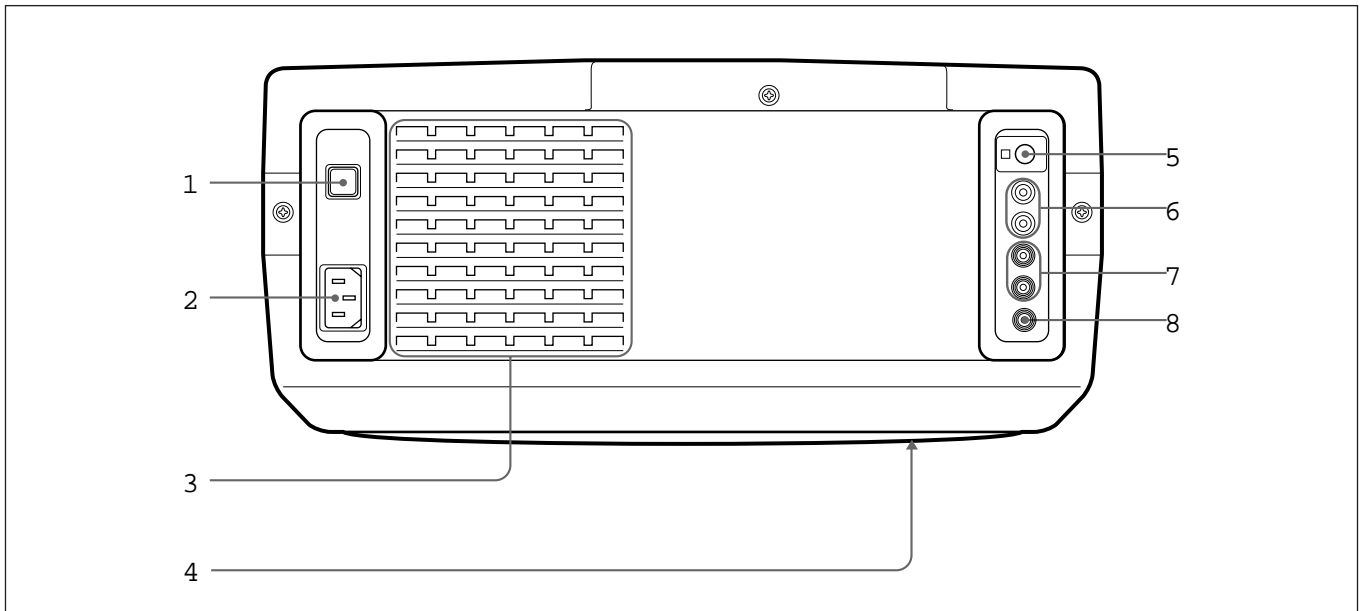
**R/R-Y/P<sub>R</sub>, G/Y, B/B-Y/P<sub>B</sub>, C. SYNC connectors**  
Connect to the RGB output of the equipment.

### 4 AUDIO IN L (MONO)/R jacks (phono type)

When you connect the equipment to the INPUT-A connectors, connect to the audio output jacks of the equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

## Location and Function of Controls

### Rear



**1 MAIN POWER switch (OON/oOFF)**  
Turns the main power on and off.

**2 AC IN socket**  
Connect the supplied AC Power cord.

#### Note

If the supplied AC power cord plug does not match the wall socket in your country, consult qualified Sony personnel.

**3 Ventilation holes (exhaust)**

**4 Ventilation holes (intake)**

#### Notes

- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes —the air coming out is hot.

**5 Rear remote control detector**

**6 AUDIO OUT L/R jacks (phono type)**  
Connects to external active speakers.  
The volume of the speakers can be controlled by the VOLUME keys on the projector or the Remote Commander.

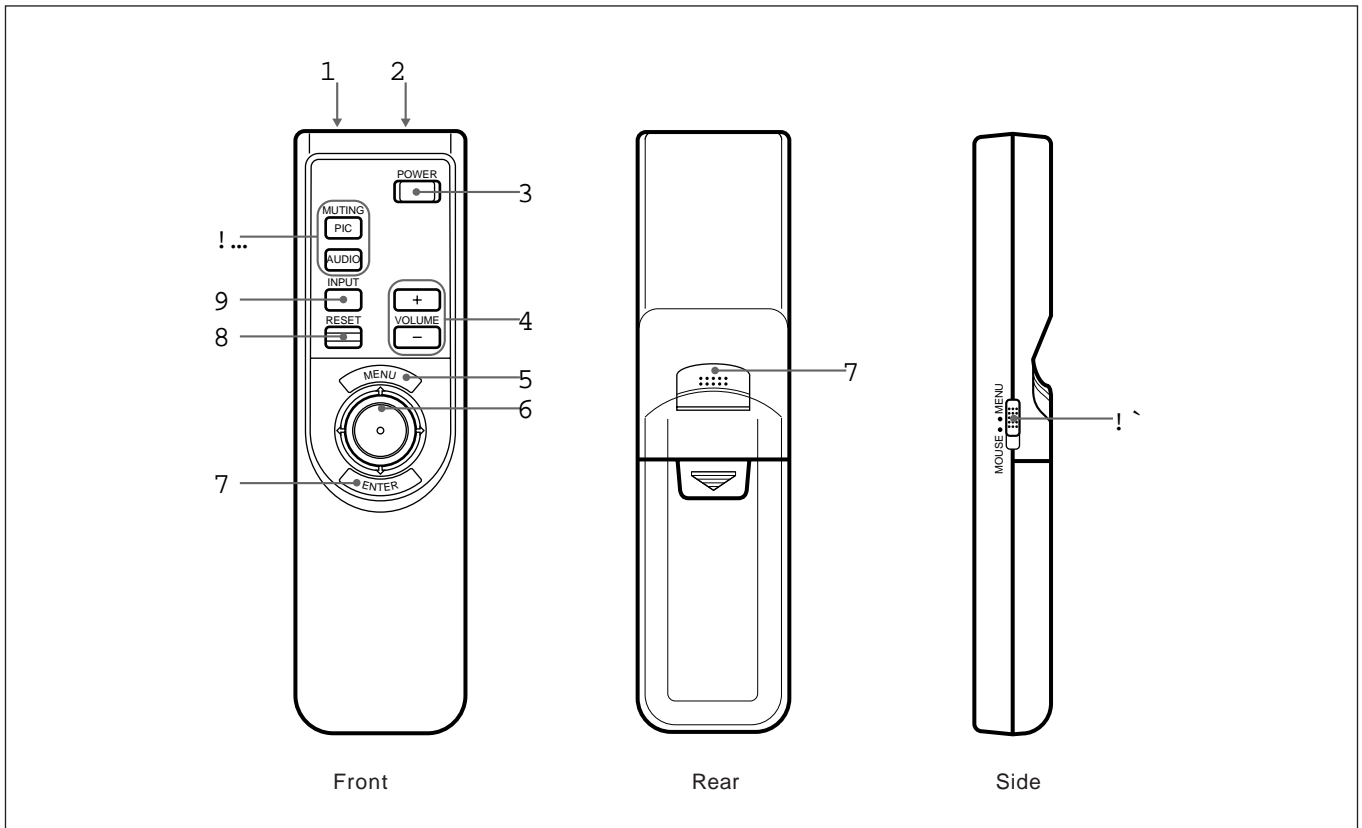
**7 CONTROL S IN/OUT jack (stereo minijack)**  
Connect to the CONTROL S connectors of other Sony equipment. It is then possible to control the whole system with a single Remote Commander.

**8 TRIG (trigger) connector (minijack)**  
Outputs the ON or OFF condition of the unit to the external equipment.  
When the unit is turned off, 0 V is output and when the unit is turned on, 5 V is output. However, as the power is not output, you cannot use the connector as the power source.

## Remote Commander

The Remote Commander may be used as a wireless or wired Remote Commander.

For details on operation of the keys not mentioned here, see the description in the Control Panel section.



1 CONTROL S OUT connector (stereo minijack)

Connect to the CONTROL S IN connector on the projector when using the Remote Commander as a wired Remote Commander.

2 Infrared transmitter

3 POWER key

4 VOLUME +/- keys

5 MENU key

6 Joy stick

Used to move the on-screen cursor or to make various adjustments.

7 ENTER keys

8 RESET key

9 INPUT key

! ° MUTING keys

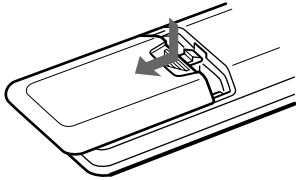
! j MOUSE/MENU switch  
Set to MENU for this unit.

## Location and Function of Controls

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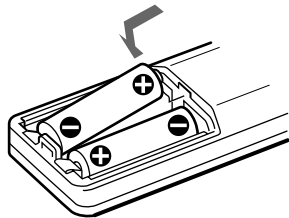
### Battery installation

- 1 Push and slide to open the lid.



- 2 Install the two size AA (R6) batteries (supplied) with the correct polarity.

Be sure to install the battery from the '+' side.



- 3 Replace the lid.

### Notes on batteries

- Be careful that the battery orientation is correct when inserting batteries.
- Do not mix old battery with new one, or different types of batteries.
- If you do not intend to use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If a battery has leaked, remove the batteries, wipe the battery compartment dry and replace the batteries with new ones.

### Notes on wireless Remote Commander operation

- Be sure that there is nothing to obstruct the infrared beam between the Remote Commander and the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector, the wider the angle within which the commander can control the projector.

- The remote control detectors on the projector do not operate when the Remote Commander is being used as a wired Remote Commander. If you wish to use the Remote Commander as a wireless Remote Commander, be sure to remove the connecting cable from both the Remote Commander and the projector.

# Installing the Projector

This section describes the installation arrangements for installing the projector on a table. For ceiling installation, consult with qualified Sony personnel (see page 31).

Horizontal center of the screen

Adjust the vertical and horizontal positioning of the projector.

Vertical positioning (side view)

Adjust the height of the projector so that the center of the lens is just below the bottom edge of the screen.

Horizontal positioning (top view)

Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.

The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.

		Unit: m (feet)									
16:9 screen size (inches)		41	60	80	100	120	150	180	200	250	300
Distance	Minimum	1.5 (4.9)	2.2 (7.3)	3.0 (9.8)	3.8 (12.4)	4.5 (14.9)	5.7 (18.7)	6.9 (22.5)	7.6 (25.1)	9.6 (31.4)	11.5 (37.7)
	Maximum	2.3 (7.5)	3.4 (11.2)	4.6 (15.0)	5.7 (18.8)	6.9 (22.7)	8.7 (28.4)	10.4 (34.2)	11.6 (38.0)	14.5 (47.6)	17.5 (57.3)
4:3 screen size (inches)		34	60	80	100	120	150	180	200	245	
Distance	Minimum	1.5 (5.0)	2.7 (9.0)	3.7 (12.1)	4.6 (15.2)	5.6 (18.3)	7.0 (23.0)	8.4 (27.6)	9.4 (30.7)	11.5 (37.7)	
	Maximum	2.3 (7.6)	4.2 (13.7)	5.6 (18.4)	7.1 (23.1)	8.5 (27.8)	10.6 (34.9)	12.8 (41.9)	14.2 (46.6)	17.4 (57.2)	

For detailed information on installation measurements, see page 30.

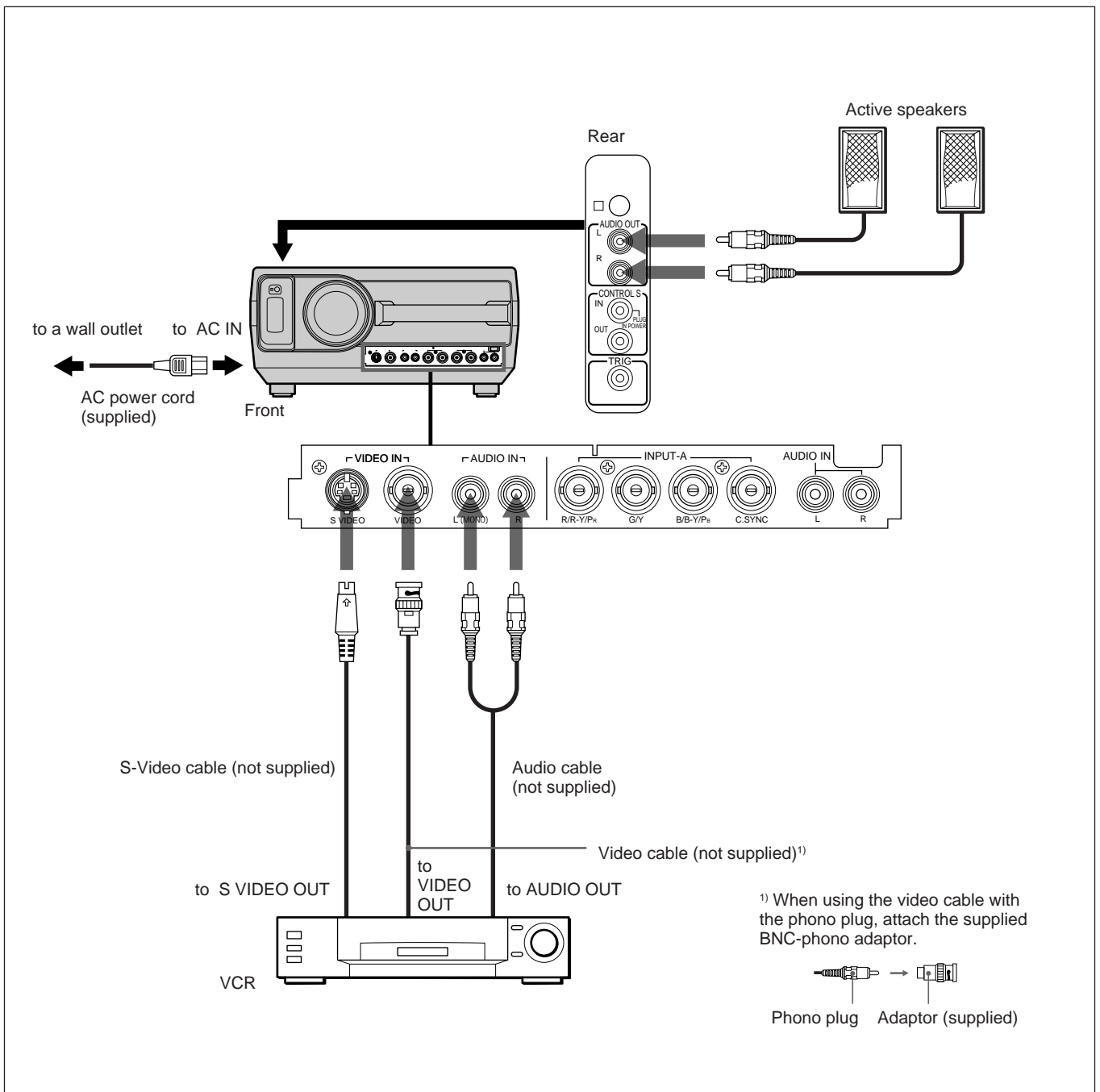
# Connecting with a VCR

This section describes how to connect the projector with a VCR and external active speakers. For details on how to connect other equipment, see page 32.

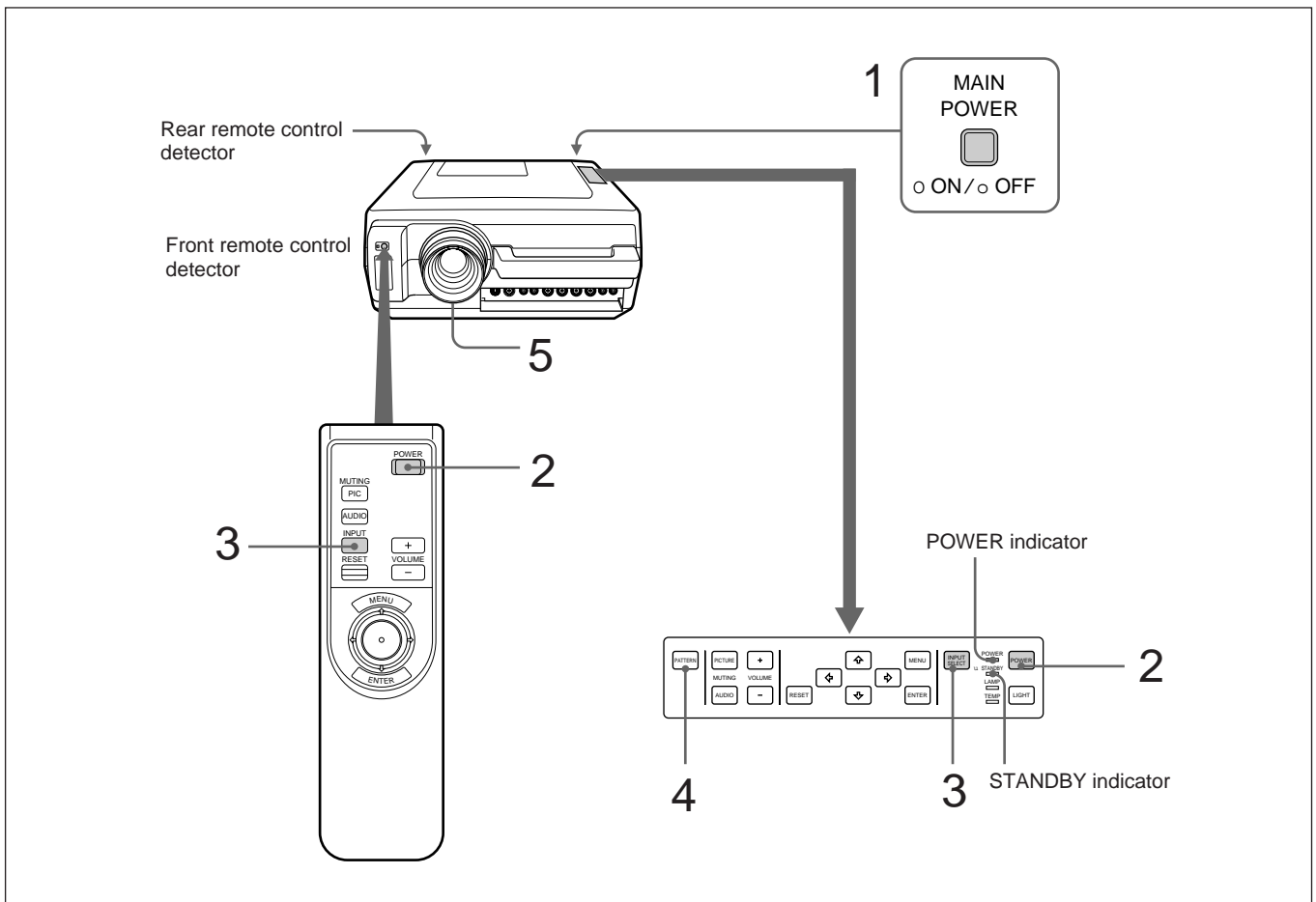
Also refer to the instruction manuals of the equipment to be connected.

When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.



# Projecting



- 1** Press the MAIN POWER switch on the rear of the projector (O ON).  
The STANDBY indicator lights in red and the projector goes into the standby mode.
- 2** Press the POWER key on the Remote Commander or the control panel.  
The POWER indicator lights in green.
- 3** Switch on equipment connected to the projector. Press the INPUT SELECT key on the control panel or the INPUT key on the Remote Commander to select the input source.

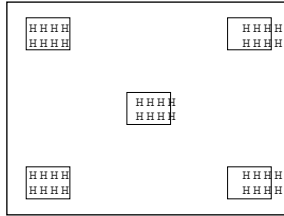
**INPUT-A:** Selects signal input from the INPUT-A and AUDIO IN L/R connectors.

**VIDEO:** Selects signal input from the VIDEO IN and AUDIO IN L/R connectors.

(If you have made connections to both the S VIDEO and the VIDEO connectors, the signal from S VIDEO connector is selected.)

(continued)

- Press the PATTERN key on the control panel to display the “H” test pattern, and turn the focus ring to adjust the focus.



Press the PATTERN key again to clear the pattern.

- Turn the zoom ring to adjust the size of the picture.

### Note

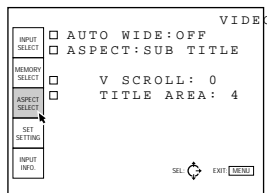
Do not look into the lens when the projector lamp is on.

To	Press
Adjust the volume	the VOLUME +/- keys.
Cut off the sound	the AUDIO MUTING key. To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key (PIC MUTING key on the Remote Commander). To restore the picture, press the PICTURE MUTING key again.

## Changing the picture mode

You can change the picture mode according to the picture to be used or the video signal.

- Press the MENU key to display the menu.
- Press the V/v keys on the control panel to select ASPECT SELECT, then press the b key or the ENTER key.



- Make setting or adjustment on an item.

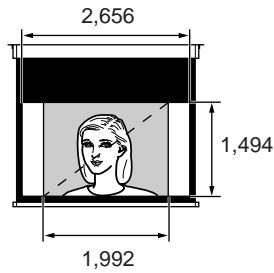
For details on setting individual items, see page 24.



The picture size for the screen size

Refer to the followings for selecting the screen mode.

When the 4:3 picture is displayed on the 16:9 screen  
 Example: The 120 inch screen is used.

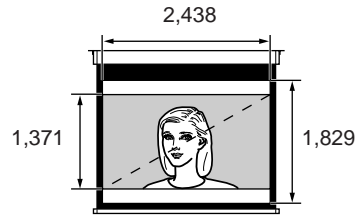


The 98 inch picture is displayed.

size (inch)	16:9 screen	4:3 picture	size (inch)
	unit: mm	unit: mm	
90			73
110			90
120			98

# Projecting

When the 16:9 picture is displayed on the 4:3 screen  
 Example: The 120 inch screen is used.



The 110 inch picture is displayed.

size (inch)	4:3 screen		16:9 picture	
	unit: mm	unit: mm	unit: mm	size (inch)
80			73	
100			91	
120			110	

---

## To turn off the power

- 1 Press and hold the POWER key on the control panel or the Remote Commander for about one second.

The POWER indicator flashes in green and the fan continues to run for about 1 minute and 30 seconds to reduce the internal heat. The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on with the POWER key. After about one minute, you can turn on the power with the POWER key.

- 2 Wait until the fan stops running and the STANDBY indicator lights in red; then press the MAIN POWER switch to turn off the main power (o OFF).

### Notes

- Do not to press the MAIN POWER switch while the fan is still running; the fan will stop while the lamp is still hot, leading to breakdown.
- To make the lamp life last longer, do not turn off the power at least for about 10 minutes after turning on the power.

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## Note on changing picture modes

This projector provides you with the various choices of picture modes.

Please select a picture mode taking into account that one which changes the aspect ratio of the original picture will provide a different look from that of the original image.

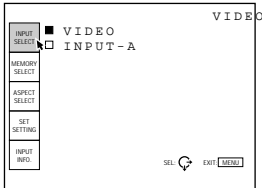
Please also note that if the projector is used for profit or for public viewing, modifying the original picture by switching picture modes may constitute an infringement of the rights of authors or producers which are legally protected by laws.

# Using the menu

The projector is equipped with an on-screen menu for making various adjustments and settings.

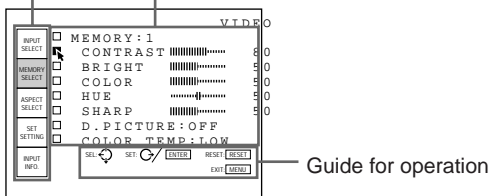
To select the language used in the menu, see page 27.

- 1 Press the MENU key.  
The menu display appears.  
The menu presently selected is highlighted in blue.



- 2 Use the V or v keys on the control panel to select a menu, then press the b key or the ENTER key. On the Remote Commander, move the joy stick up or down to select a menu, then move it to the right or press the ENTER key.  
The selected menu appears.

Menus Setting items



- 3 Make setting or adjustment on an item.  
For details on setting individual items, see the relevant menu pages.

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## To clear the menu display

Press the MENU key.

The menu display disappears automatically if no key is pressed for one minute.

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## To reset items that have been adjusted

Press the RESET key. "RESET complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.

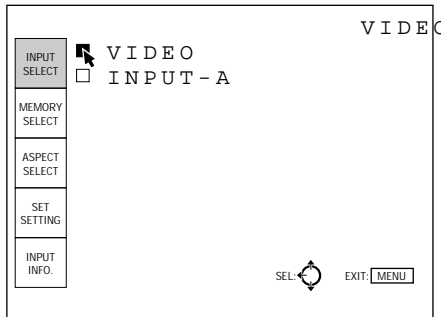
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## About the memory of the settings

The settings are automatically stored in the projector memory.

# The INPUT SELECT Menu

The INPUT SELECT menu is used for selecting the input signal.



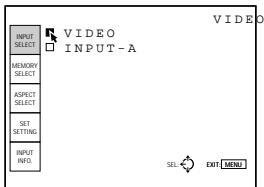
## Operation

Use the **V** or the **v** key on the control panel to select the input, then press **B** key.

On the Remote Commander, move the joy stick up or down to select the input, then move it to the left.

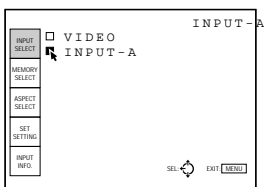
## VIDEO

Selects signal input from the VIDEO IN (S VIDEO or VIDEO) connectors and the AUDIO IN L/R (for VIDEO IN) connectors. If you have equipment connected to both the VIDEO and the S VIDEO connectors, the S VIDEO will be selected.



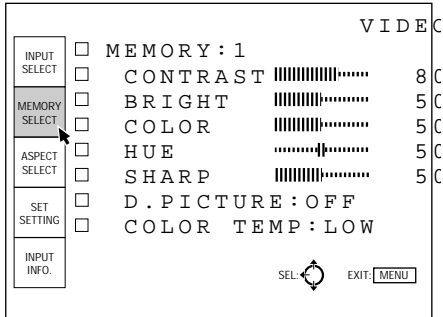
## INPUT-A

Selects signal input from the INPUT-A and AUDIO IN L/R (for INPUT-A) connectors.



# The MEMORY SELECT Menu

The MEMORY SELECT menu is used for adjusting the picture. Items which can be adjusted are displayed in green.



## Operation

When changing the adjustment level:

### 1. Select an item.

Use the V or the v key on the control panel to select an item, then press the b or the ENTER key.

On the Remote Commander, move the joy stick up or down to select an item, then move it to the right or press the ENTER key.

The selected item is displayed at the bottom.



### 2. Change the adjustment level.

To increase the number, press the V or the b key.

On the Remote Commander, move the joy stick up or to the right.

To decrease the number, press the v or the B key.

On the Remote Commander, move the joy stick down or to the left.

Adjustable range is MIN, 1, 2, ... 98, 99, MAX.

### 3. Press the ENTER key to restore the original screen.

The original screen is restored.

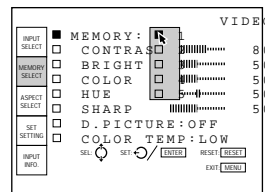
When changing the setting:

### 1. Select an item.

Use the V or the v key on the control panel to select an item, then press the b or the ENTER key.

On the Remote Commander, move the joy stick up or down to select an item, then move it to the right or press the ENTER key.

The pop-up menu for the selected item appears.



### 2. Change the setting.

Press the V or the v key on the control panel.

On the Remote Commander, move the joy stick up or down.

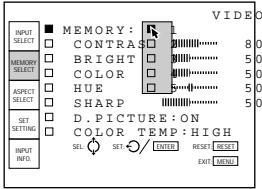
### 3. Press the ENTER or the B key on the control panel to restore the original screen.

On the Remote Commander, press the ENTER key or move the joy stick to the left.

---

## MEMORY

Selects the memory number.



The adjusted data are memorized in MEMORY 1 to 5 for each of VIDEO IN and INPUT-A.

---

## CONTRAST

Adjusts the picture contrast.



The higher the setting, the greater the contrast.  
The lower the setting, the lower the contrast.

---

## BRIGHT

Adjusts the picture brightness.

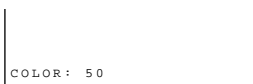


The higher the setting, the brighter the picture.  
The lower the setting, the darker the picture.

---

## COLOR

Adjusts color intensity.



The higher the setting, the greater the intensity.  
The lower the setting, the lower the intensity.

---

## HUE

Adjusts skin tones.



A higher the setting, the picture becomes greenish.  
A lower the setting, the picture becomes purplish.

---

## SHARP

Adjusts the picture sharpness.

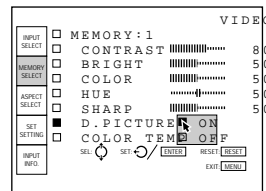


The higher the setting, the sharper the picture.  
The lower the setting, the softer the picture.

---

## D. (Dynamic) PICTURE

Emphasizes the dark portion of the picture.

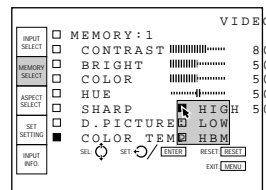


**ON:** Emphasizes the dark portion of the picture to produce a bolder “dynamic” picture.  
**OFF:** Reproduces the dark portions of the picture accurately, in accordance with the source signal.

---

## COLOR TEMP

Adjust the color temperature.



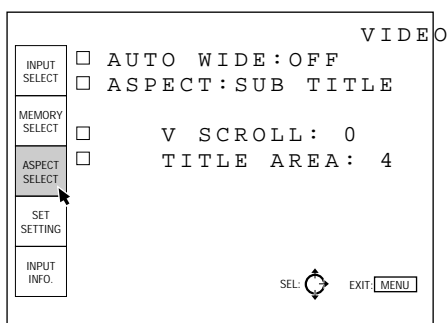
**HIGH:** Makes the white color bluish.  
**LOW:** Makes the white color reddish.  
**HBM (high brightness mode):** Reproduces a picture with high brightness.

The following items cannot be adjusted depending on the types of input signal

Item	Cannot be adjusted with
COLOR	black-and-white signal
HUE	Input signal other than NTSC 3.58/4.43 and HDTV signals

# The ASPECT SELECT Menu

The ASPECT SELECT menu is used to set the picture mode.



## Operation

When changing the adjustment level:

### 1. Select an item.

Use the V or the v key on the control panel to select the item, then press the b or the ENTER key. On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

The selected item is displayed at the bottom.



### 2. Change the adjustment level.

To increase the number, press the V or the b key. On the Remote Commander, move the joy stick up or to the right.

To decrease the number, press the v or the B key. On the Remote Commander, move the joy stick down or to the left.

### 3. Press the ENTER key to restore the original screen.

The original screen is restored.

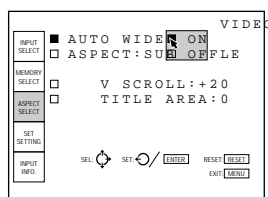
When changing the setting:

### 1. Select an item.

Use the V or the v key on the control panel to select the item, then press the b or the ENTER key.

On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

The pop-up menu for the selected item appears.



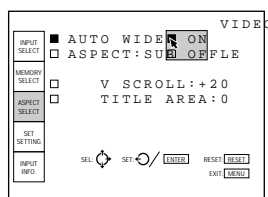
### 2. Change the setting.

Press the V or the v key on the control panel. On the Remote Commander, move the joy stick up or down.

3. Press the ENTER or the B key on the control panel to restore the original screen. On the Remote Commander, press the ENTER key or move the joy stick to the left.

## AUTO WIDE

Selects the AUTO WIDE mode.



**ON:** The picture automatically switches to wide-screen mode (ZOOM or SUB TITLE) when a letter box signal is received.

When an ID-1 signal is received, the picture is automatically set to FULL or ZOOM.

**OFF:** The AUTO WIDE function does not work.

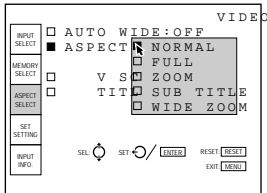
### Note

The AUTO WIDE function may not work correctly depending on a video signal. In this case, set the AUTO WIDE function to OFF.



## ASPECT

Sets the aspect ratio.



**NORMAL:** The picture with normal ratio 4:3 is displayed.



**FULL:** The picture with normal ratio 4:3 is enlarged horizontally. This mode brings a new level of excitement to video games, making them more involving and challenging.



**ZOOM:** The picture with normal ratio 4:3 is enlarged vertically and horizontally (with same ratio) to the screen size. This mode is ideal for capturing the full-screen drama of wide-format movies.



**SUB TITLE:** The subtitle area is compressed. This mode leaves the subtitles on the lower part of the screen.



**WIDE ZOOM:** The picture with normal ratio 4:3 is enlarged and the upper and lower portions of the picture are compressed. This is ideal for general programs, such as news or variety shows.



## V SCROLL

Adjusts the vertical position of the picture.

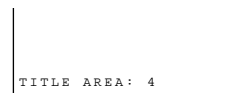


Adjustable range is  $-31$  to  $+31$ .

As the setting increases, the picture moves up, and as the setting decreases, the picture moves down. To resume the normal position, press the RESET key.

## TITLE AREA

Adjust the subtitle area.



Adjustable range is 0 to 8.

As the setting increases, the subtitle area becomes wide, and as the setting decreases, the subtitle area becomes narrow.

To resume the normal area, press the RESET key.

### Note

Although the adjustable range displayed is 0 to 8, the actual range may be limited depending on the V SCROLL setting.

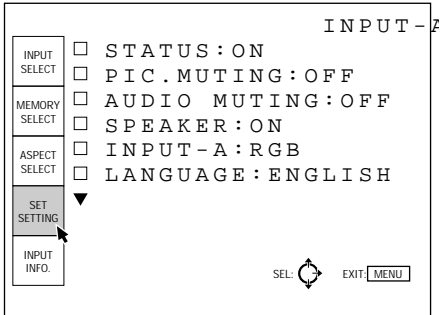
The following item cannot be adjusted depending on the types of input signal or the selected aspect ratio

Item	Cannot be adjusted with
ASPECT SELECT menu	HDTV signal input from INPUT-A connectors
AUTO WIDE	RGB/Component signal input from INPUT-A connectors
ASPECT	when the AUTO WIDE is set to ON
V SCROLL	NORMAL, FULL and WIDE ZOOM
TITLE AREA	NORMAL, FULL, ZOOM and WIDE ZOOM

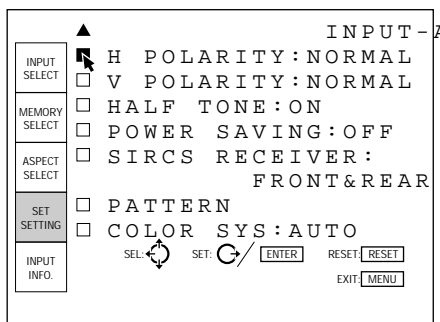
# The SET SETTING Menu

The SET SETTING menu is used for changing the settings of the projector.

<page 1>



<page 2>



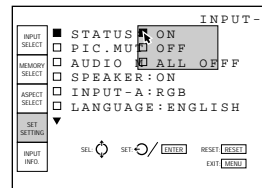
The SET SETTING menu consists of two pages. To change the page, press the V or V key until the page changes when selecting an item. On the Remote Commander, move the joy stick up or down until the page changes when selecting an item.

## Operation

### 1. Select an item.

Use the V or the v key on the control panel to select the item, then press the b or the ENTER key. On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

The pop-up menu for the selected item appears.



### 2. Change the setting.

Press the V or the v key to change the setting. On the Remote Commander, move the joy stick up or down to change the setting.

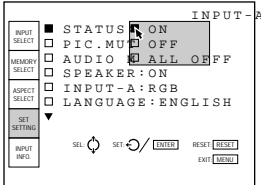
3. Press the ENTER or the B key to restore the original screen.

## STATUS (on-screen display)

ON: Shows all of the on-screen displays.

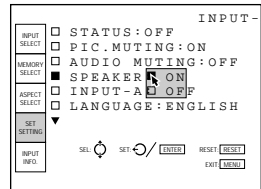
OFF: Turns off the on-screen displays except for “NO INPUT”, “PIC/AUDIO MUTING”, and warning messages (see page 35.)

ALL OFF: Turns off all of the on-screen displays except for warning messages.



## SPEAKER

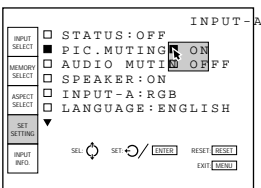
Set to OFF to cut off the sound of the internal speakers. When set to OFF, “SPEAKER OFF” appears on the screen when you turn on the power.



## PIC. MUTING

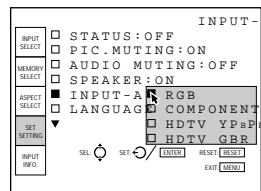
Set to ON to cut off the picture.

When set to ON, “PIC MUTING” appears on the screen.



## INPUT-A

Selects the RGB, COMPONENT, HDTV YP<sub>B</sub>P<sub>R</sub> or HDTV GBR signal input from INPUT-A.



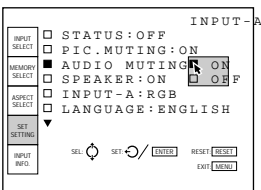
### Note

Select the item according to the input signal. If the setting is not correct, the picture may not be displayed or may be incorrectly displayed.

## AUDIO MUTING

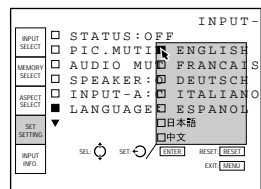
Set to ON to cut off the sound.

When set to ON, “AUDIO MUTING” appears on the screen.



## LANGUAGE

Selects the language used in the menu and on screen displays.



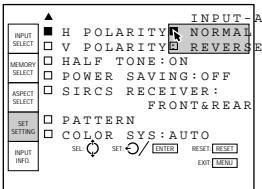
Available languages are: English, French, German, Italian, Spanish, Japanese and Chinese.

(continued)

## The SET SETTING Menu

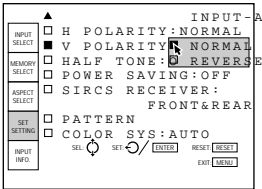
### H (Horizontal) POLARITY

Set to REVERSE to reverse the horizontal orientation of the picture.



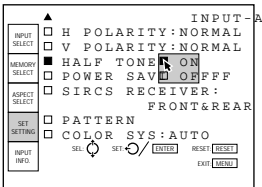
### V (vertical) POLARITY

Set to REVERSE to reverse the vertical orientation of the picture.



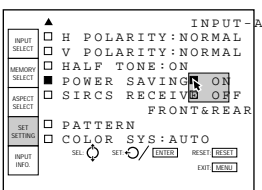
### HALF TONE

Set to ON to reduce the luminance of the menu background.



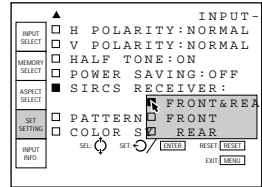
### POWER SAVING

When set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes. The power saving mode is canceled when a signal is input or whenever a key is pressed.



### SIRCS RECEIVER

Selects the remote control detectors on the front and rear of the projector.



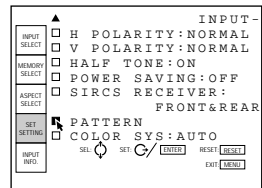
**FRONT & REAR:** Activates both the front and rear detectors.

**FRONT:** Activates the front detector only.

**REAR:** Activates the rear detector only.

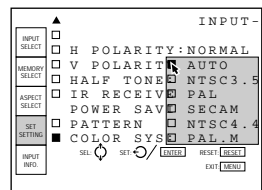
### PATTERN

Press the b or the ENTER key to display the “H” test pattern. Press the B or the ENTER key to clear the pattern. The pattern disappears automatically if no key is pressed for one minute.



### COLOR SYS (system)

Selects the color system of the input signal.



Normally, set to AUTO.

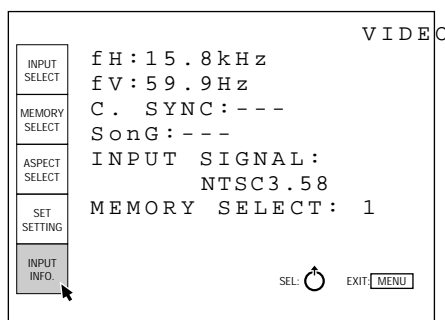
If the picture is distorted or colorless, select the color system according to the input signal.

The following item cannot be adjusted depending on the types of input signal

Item	Cannot be adjusted with
INPUT-A	Signal input from VIDEO IN connectors
COLOR SYS	Signal input from INPUT-A connectors

# The INPUT INFO Menu

The INPUT INFO menu displays the information on a current input signal.



## fH (Horizontal frequency)

Indicates the horizontal frequency of the input signal. This indication is only used as a reference, this is not absolute value.

## fV (Vertical frequency)

Indicates the vertical frequency of the input signal. This indication is only used as a reference, this is not absolute value.

### Note

If the setting for INPUT-A on the SET SETTING menu is incorrect, or connection is not made properly, the horizontal and vertical frequencies will be indicated as "--.-".

## C. SYNC (Composite Sync)

Indicates the polarity of the composite sync. signal. When the picture is being projected using its sync signal, POS (NEG) is displayed in green. When the picture is being projected without using sync signal, POS (NEG) is displayed in white.

POS: The polarity of the sync. signal is positive.  
NEG: The polarity of the sync. signal is negative.  
---: No sync. signal is input.

### Note

For composite sync, input the negative sync signal.

## SonG

Indicates the polarity of the Sync on Green. When the picture is being projected using its sync signal, NEG is displayed in green. When the picture is being projected without using sync signal, NEG is displayed in white.

NEG: The polarity of the sync. signal is negative.  
---: No Sync. signal is input.

## INPUT SIGNAL

Displays the type of current input signal.

NTSC 3.58: NTSC 3.58 input signal from VIDEO IN

NTSC 3.58 Y/C: NTSC 3.58 Y/C input signal from VIDEO IN

NTSC 4.43: NTSC 4.43 input signal from VIDEO IN

NTSC 4.43 Y/C: NTSC 4.43 Y/C input signal from VIDEO IN

PAL: PAL input signal from VIDEO IN

PAL Y/C: PAL Y/C input signal from VIDEO IN

PAL-M: PAL-M input signal from VIDEO IN

PAL-M Y/C: PAL-M Y/C input signal from VIDEO IN

SECAM: SECAM input signal from VIDEO IN

SECAM Y/C: SECAM Y/C input signal from VIDEO IN

RGB: RGB input signal

COMPONENT: Component input signal

HDTV YP<sub>B</sub>PR: HDTV YP<sub>B</sub>PR input signal

HDTV GBR: HDTV GBR input signal

B/W 50: Black and white input signal from VIDEO IN (vertical frequency: 50 Hz)

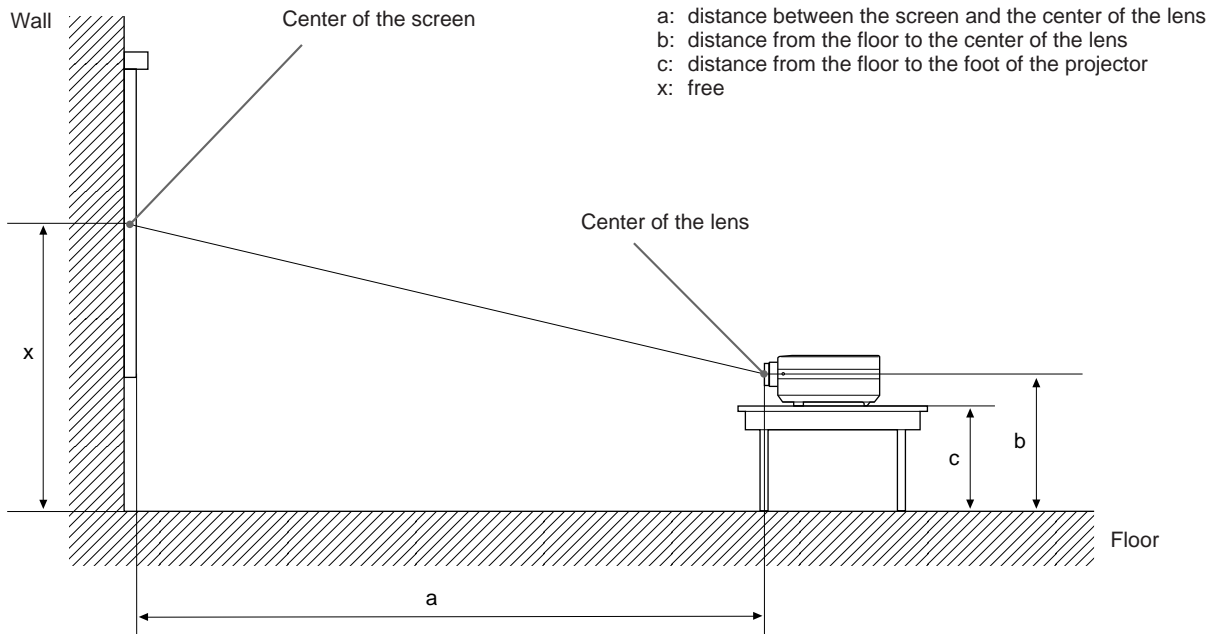
B/W 60: Black and white input signal from VIDEO IN (vertical frequency: 60 Hz)

## MEMORY SELECT

The MEMORY SELECT number is displayed

# Installation Examples

## Floor Installation



Unit: mm (inches)

16:9 screen size (inches)		41	60	80	100	120	150	180	200	250	300
a (mm)	Minimum	1490 (58 3/4)	2220 (87 1/2)	3000 (118 1/8)	3770 (148 1/2)	4540 (178 3/4)	5700 (224 1/2)	6860 (270 1/8)	7640 (300 7/8)	9570 (376 7/8)	11500 (452 7/8)
	Maximum	2280 (89 7/8)	3400 (133 7/8)	4570 (180)	5740 (226)	6910 (272 1/8)	8660 (341)	10420 (410 1/4)	11590 (456 3/8)	14520 (571 3/4)	17450 (687 1/8)
b (mm)		x-334 (13 1/4)	x-488 (19 1/4)	x-651 (25 3/4)	x-814 (32 1/8)	x-977 (38 1/2)	x-1221 (48 1/8)	x-1465 (57 3/4)	x-1628 (64 1/8)	x-2035 (80 1/8)	x-2442 (96 1/4)
c (mm)		x-445 (17 5/8)	x-599 (23 5/8)	x-762 (30)	x-925 (36 1/2)	x-1088 (42 7/8)	x-1332 (52 1/2)	x-1576 (62 1/8)	x-1739 (68 1/2)	x-2146 (84 1/2)	x-2553 (100 5/8)

To calculate the installation measurement (unit: mm\*)  
 SS: screen size diagonal (inches)

$$a \text{ (minimum)} = (SS - 2.6584) \div 26.501 \times 1025$$

$$a \text{ (maximum)} = (SS - 1.898) \div 16.656 \times 975$$

$$b = X - (SS \times 25.4 \div 34.323 \times 11)$$

$$c = X - (SS \times 25.4 \div 34.323 \times 11 + 111)$$

4:3 screen size (inches)		34	60	80	100	120	150	180	200	245
a (mm)	Minimum	1510 (59 1/2)	2740 (107 7/8)	3690 (145 3/8)	4630 (182 3/8)	5580 (219 3/4)	7000 (275 5/8)	8420 (331 1/2)	9370 (369)	11500 (452 7/8)
	Maximum	2320 (91 3/8)	4180 (164 5/8)	5620 (221 3/8)	7050 (277 5/8)	8480 (333 7/8)	10630 (418 5/8)	12780 (503 1/4)	14210 (559 1/2)	17440 (686 5/8)
b (mm)		x-339 (13 3/8)	x-598 (23 5/8)	x-797 (31 1/2)	x-996 (39 1/4)	x-1196 (47 1/8)	x-1494 (58 7/8)	x-1793 (70 5/8)	x-1993 (78 1/2)	x-2441 (96 1/8)
c (mm)		x-450 (17 3/4)	x-709 (28)	x-908 (35 3/4)	x-1107 (43 3/8)	x-1307 (51 1/2)	x-1605 (63 1/4)	x-1904 (75)	x-2104 (82 7/8)	x-2552 (100 1/2)

To calculate the installation measurement (unit: mm\*)  
 SS: screen size diagonal (inches)

$$a \text{ (minimum)} = (SS - 2.1755) \div 21.653 \times 1025$$

$$a \text{ (maximum)} = (SS - 1.5484) \div 13.609 \times 975$$

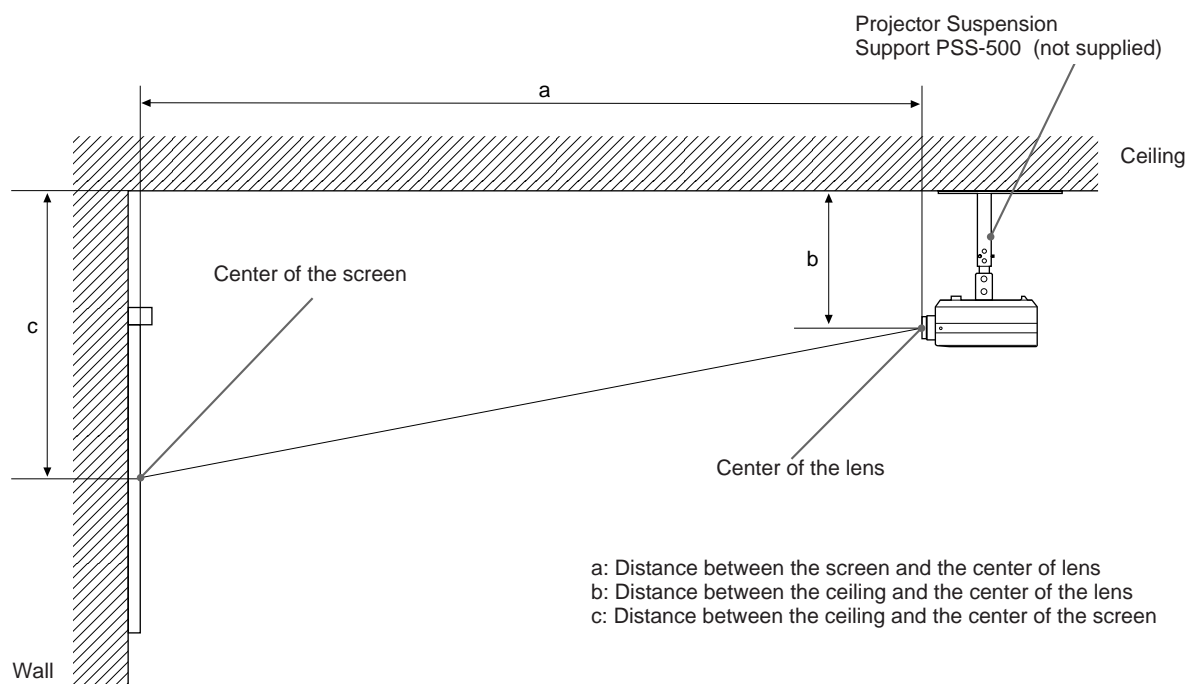
$$b = X - (SS \times 25.4 \div 28.045 \times 11)$$

$$c = X - (SS \times 25.4 \div 28.045 \times 11 + 111)$$

\* When converting the number's unit from mm to inch, divide it by 25.4.

## Ceiling Installation

For ceiling installation, consult with qualified Sony personnel.



Unit: mm (inches)

16:9 screen size (inches)		60	80	100	120	150	180	200	250	300
a (mm)	Minimum	2220 (87 1/2)	3000 (118 1/8)	3770 (148 1/2)	4540 (178 3/4)	5700 (224 1/2)	6860 (270 1/8)	7640 (300 7/8)	9570 (376 7/8)	11500 (452 7/8)
	Maximum	3400 (133 7/8)	4570 (180)	5740 (226)	6910 (272 1/8)	8660 (341)	10420 (410 1/4)	11590 (456 3/8)	14520 (571 3/4)	17450 (687 1/8)
b (mm)	247 (9 3/4) / 272 (10 3/4) / 297 (11 3/4) / 347 (13 3/4) / 372 (14 3/4) / 397 (15 3/4) adjustable									
c (mm)		b+488 (19 1/4)	b+651 (25 3/4)	b+814 (32 1/8)	b+977 (38 1/2)	b+1221 (48 1/8)	b+1465 (57 5/8)	b+1628 (64 1/8)	b+2035 (80 1/8)	b+2442 (96 1/4)

To calculate the installation measurement (unit: mm\*)  
 SS: screen size diagonal (inches)

$$a \text{ (minimum)} = (SS - 2.6584) \div 26.501 \times 1025$$

$$a \text{ (maximum)} = (SS - 1.898) \div 16.656 \times 975$$

$$c = b + (SS \times 25.4 \div 34.323 \times 11)$$

4:3 screen size (inches)		60	80	100	120	150	180	200	245
a (mm)	Minimum	2740 (107 7/8)	3690 (145 3/8)	4630 (182 3/8)	5580 (219 3/4)	7000 (275 5/8)	8420 (331 1/2)	9370 (369)	11500 (452 7/8)
	Maximum	4180 (164 5/8)	5620 (221 3/8)	7050 (277 5/8)	8480 (333 7/8)	10630 (418 5/8)	12780 (503 1/4)	14210 (559 1/2)	17440 (686 5/8)
b (mm)	247(9 3/4) / 272 (10 3/4) / 297 (11 3/4) / 347 (13 3/4) / 372 (14 3/4) / 397 (15 3/4) adjustable								
c (mm)		b+598 (23 5/8)	b+797 (31 1/2)	b+996 (39 1/4)	b+1196 (47 1/8)	b+1494 (58 7/8)	b+1793 (70 5/8)	b+1993 (78 1/2)	b+2441 (96 1/8)

To calculate the installation measurement (unit: mm\*)  
 SS: screen size diagonal (inches)

$$a \text{ (minimum)} = (SS - 2.1755) \div 21.653 \times 1025$$

$$a \text{ (maximum)} = (SS - 1.5484) \div 13.609 \times 975$$

$$c = b + (SS \times 25.4 \div 28.045 \times 11)$$

\* When converting the number's unit from mm to inch, divide it by 25.4.

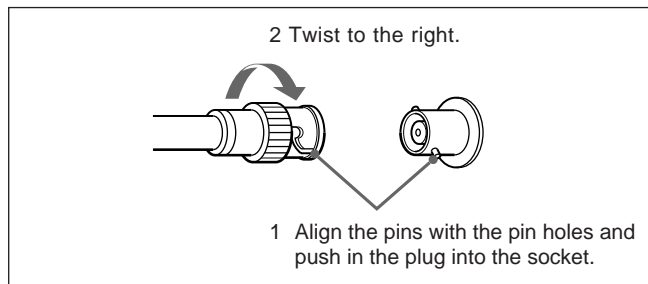
# Connection Example

For details on how to connect a VCR or external active speakers, see page 14. Also refer to the instruction manual of the equipment to be connected.

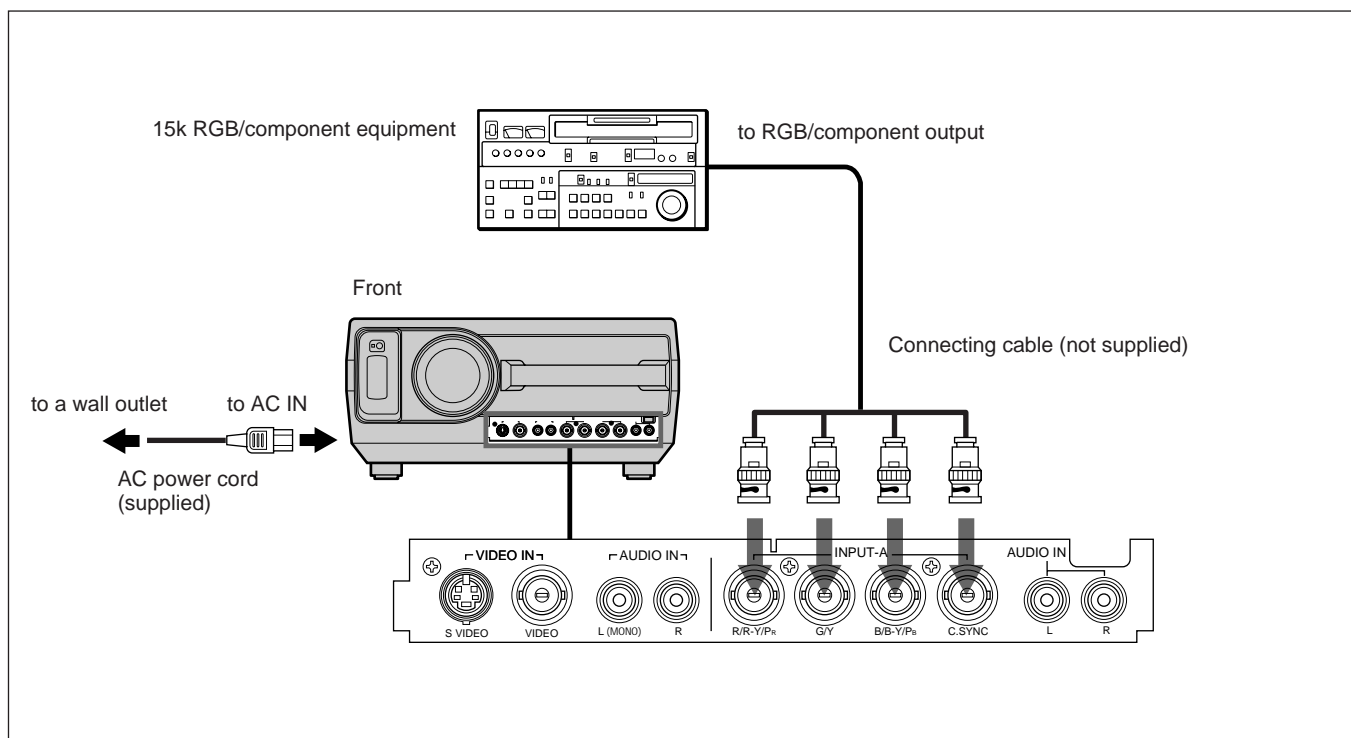
When making connections, be sure to:

- Before connecting any cables, make sure that each piece of equipment to be connected is turned off.
- Use cables appropriate for the equipment to be connected.
- A loose connection may cause hum or noise.
- When disconnecting a cable, pull it out from the plug; not the cable itself.

## Connecting a BNC connector:



## Connecting 15k RGB/Component Equipment



### Notes

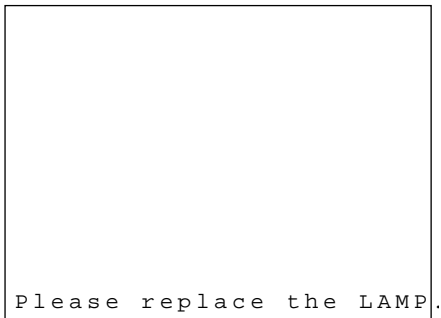
- This unit cannot accept separate sync signal with 15k RGB/component input signal. Use composite sync (negative) or Sync on Green.
- Select the RGB, COMPONENT, HDTV signal<sup>1)</sup> with the INPUT-A item on the SET SETTING menu.

1) The picture may not be correctly displayed when an HDTV signal with external sync signal is input. To view the HDTV signal, input the G signal with the sync signal or Y signal with the sync signal, to the INPUT-A G/Y connector. Do not connect the external sync signal to the INPUT-A C. SYNC connector.



## Replacing the Lamp

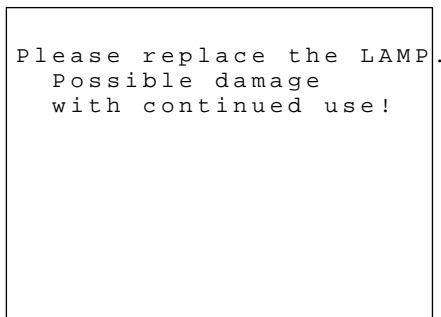
When it is time to change the lamp, the message “Please replace the LAMP” appears on the screen when you turn on the projector. Once the message appears, replace the lamp promptly with a new PK-PJ500 lamp.



The message disappears if any key on the control panel or the Remote Commander is pressed.

### Notes

- If you continue to use the projector after the message above has appeared, the following message appears.



When this message appears, no key except the POWER key will be operable.

- After turning off the power, wait at least one hour before changing the lamp to give it time to cool down completely.

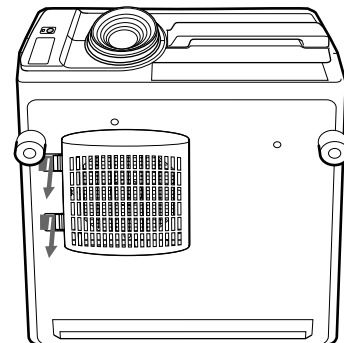
For details on replacement, refer to the Instruction Manual of the lamp.

## Cleaning the Air Filter

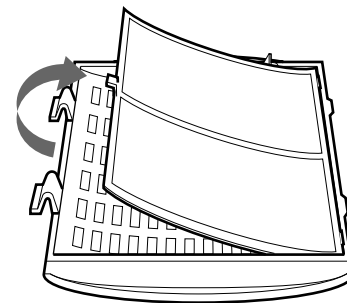
The air filter should be cleaned every 300 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.

To clean the air filter, follow the steps below:

- 1 Turn off the MAIN POWER switch and unplug the power cord.
- 2 Remove the air filter cover on the bottom of the projector.



- 3 Remove the air filter.



- 4 Remove the dust from the filter with a vacuum cleaner.

- 5 Attach the air filter and replace the cover.

### Notes

- If the air filter is excessively dirty, wash it with a mild detergent solution and dry it in a shaded place.
- Be sure to attach the air filter cover firmly; the power will not be turned on if the cover is not closed securely.

# Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The MAIN POWER switch is turned off.	Press the MAIN POWER switch at the rear of the projector (see page 15).
	The power has been turned off and on with the POWER key at a short interval.	Wait for about one minute before turning on the power with the POWER key.
	Lamp cover is detached.	Close the lamp cover securely (see page 33).
	Air filter cover is detached.	Close the air filter cover securely (see page 33).
No picture and no sound.	Cable is disconnected.	Check that the proper connections have been made (see pages 14 and 32).
	Input selection is incorrect.	Select the input source correctly.
No picture or no sound.	Either the picture or the sound is out off.	Press the MUTING keys to release the muting function (see page 16).
Picture from INPUT A is distorted.	Setting for INPUT-A on the SET SETTING menu is incorrect.	Select RGB, COMPONENT, HDTV YPbPr or HDTV GBR for INPUT-A on the SET SETTING menu according to the input signal.
On-screen displays do not appear.	STATUS in the SET SETTING menu has been set to OFF or ALL OFF.	Set STATUS in the SET SETTING menu to ON (see page 27).
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture (see pages 22 and 23).
	Projector is set to wrong color system.	Set the color system in the SET SETTING menu to match the color system being input.
Picture is too dark.	Lamp is nearing the end of its life.	Change the lamp (see page 33).
	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness properly.
Picture is not clear.	Picture is out of focus.	Adjust the focus (see page 16).
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on.
The LAMP indicator lights up.	A trouble has prevented the lamp from lighting.	Replace the lamp. If the projector is installed on the ceiling, consult with qualified personnel.
The LAMP indicator flashes.	The lamp cover or the air filter cover is detached.	Attach the cover securely (see page 33).
The TEMP indicator lights up.	The internal temperature is unusually high.	Check to see that nothing is blocking the ventilation holes and leave the projector for about one hour (see page 10).
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries (see page 12).
	The MOUSE/MENU switch has been switched to the MOUSE position.	Set the switch to MENU position.
	You are using the Remote Commander as a wireless Remote Commander, and it is connected to the projector.	Disconnect the cable.
	The unit is influenced of the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu.
The black portions of the left and right sides brighten when a picture with normal ratio is displayed.	The newly developed optical system also allows high brightness on the corners of the screen, so the black portions of the left and right sides may brighten slightly. This is not a malfunction.	

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## Notes

- When the LAMP indicator lights up, never open the lamp cover if the projector is installed on the ceiling.
- If the lamp looks damaged when replacing, consult with qualified Sony personnel.
- If the lamp does not light even after replacing it with a new one, consult with qualified Sony personnel.
- If the TEMP indicator starts flashing, consult with qualified Sony personnel.

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## On-screen messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal	Check connections
Not applicable!	You have pressed the wrong key.	Press the appropriate key.
OPERATING TEMPERATURE TOO HIGH! This set will be shut down after 5 minutes	Operating temperature is too high.	Turn off the power. Check to see that nothing is blocking the ventilation holes.
Please replace the LAMP.	The lamp has reached the end of its life.	Replace the lamp.

# Specifications

## Optical characteristics

Projection system	3 LCD panels, 1 lens, projection system
LCD panel	1.35-inch TFT LCD panel, 1,538,640 pixels (512, 880 pixels × 3)
Lens	1.6 times zoom lens, f 50 to 80 mm/F 2.5 to 3.1
Lamp	250W, metal halide lamp
Projection picture size	16:9 screen Range: 41 to 300 inches (diagonal measure) 4:3 screen Range: 34 to 245 inches (diagonal measure)
Light output	ANSI lumen <sup>1)</sup> 400 lm
Throwing distance	16:9 screen 41-inch: 1490 to 2280 mm (58 <sup>3</sup> / <sub>4</sub> to 83 <sup>7</sup> / <sub>8</sub> inches) 80-inch: 3000 to 4570 mm (118 <sup>1</sup> / <sub>8</sub> to 180 inches) 100-inch: 3770 to 5740 mm (148 <sup>1</sup> / <sub>2</sub> to 226 inches) 200-inch: 7640 to 11590 mm (300 <sup>7</sup> / <sub>8</sub> to 456 <sup>3</sup> / <sub>8</sub> inches) 300-inch: 11500 to 17450 mm (452 <sup>7</sup> / <sub>8</sub> to 687 <sup>1</sup> / <sub>8</sub> inches)

## Electrical characteristics

Color system	NTSC/PAL/SECAM/NTSC <sub>4.43</sub> /PAL-M system, switched automatically
Resolution	600 horizontal TV lines (VIDEO input)
Speaker	Max. 2W + 2W, 7 × 4 cm (2 <sup>7</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> inches) stereo

## Input/Output

VIDEO IN	VIDEO (composite video) : BNC type 1 Vp-p ±2 dB sync negative, 75 ohms terminated S VIDEO: Mini DIN 4-pin type Y (luminance) signal : 1 Vp-p ±2 dB sync negative, 75 ohms terminated C (chrominance) signal :burst 0.286 Vp-p ±2 dB 75 ohms terminated (NTSC), burst 0.3 Vp-p ±2 dB 75 ohms terminated (PAL)
AUDIO IN	phono type: 500 mVrms, stereo, impedance more than 47 kilohms
INPUT-A	BNC type: Analog RGB/Component: R/R-Y: 0.7 Vp-p ±2 dB positive, 75 ohms terminated G: 0.7 Vp-p ±2 dB positive, 75 ohms terminated G with sync/Y: 1Vp-p ±2 dB sync negative, 75 ohms terminated B/B-Y: 0.7 Vp-p ±2 dB positive, 75 ohms terminated C. SYNC: Composite sync: 0.6-8 Vp-p high impedance, sync negative HDTV Y/P <sub>B</sub> /P <sub>R</sub> : Y: 1 Vp-p ±2 dB, 75 ohms terminated, Tri-level sync: ±0.3 Vp-p, Sync negative: 0.3 Vp-p P <sub>B</sub> /P <sub>R</sub> : ±0.35 Vp-p ±2 dB, 75 ohms terminated HDTV GBR: G with sync: 1 Vp-p ±2 dB, 75 ohms terminated, Tri-level sync: ±0.3 Vp-p, Sync negative: 0.3 Vp-p B/R: 0.7 Vp-p ±2 dB, 75 ohms terminated

1) ANSI lumen is a measuring method of American National Standard IT 7.228.

AUDIO IN	Phono type: 500 mVrms, stereo impedance more than 47 kilohms
AUDIO OUT (variable out)	Phono type: max. 1 Vrms, when input is 500 mVrms, stereo impedance less than 5 kilohms
CONTROL S IN/PLUG IN POWER	Stereo minijack type: 5 Vp-p, Plug in power, DC 5 V maximum output 60 mA
CONTROL S OUT	Stereo minijack type: 5 Vp-p
TRIG	Minijack type: POWER ON: DC 5 V, output impedance 4.7 kilohms POWER OFF: 0 V
Safety regulations	VPL-W400Q: UL1950, CSA950, FCC Class B, IC Class B VPL-W400QM: EN60 950(TÜV), CE

## General

Dimensions	368 × 176 × 420 mm (14 1/2 × 7 × 16 5/8 inches) (w/h/d)
Mass	Approx. 10 kg (22 lb 1 oz)
Power requirements	VPL-W400Q: AC 100-120/ 220-240 V, 50/60 Hz <sup>2)</sup> VPL-W400QM: AC 220 to 240 V, 50/60 Hz
Power consumption	Max. 350 W (Standby mode: 10W)
Heat dissipation	1194.4 BTU
Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	35% to 85% (no condensation)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Storage humidity	10% to 90%
Supplied Accessories	Remote Commander RM-PJM500 (1) Size AA (R6) batteries (2) AC Power cord (1) Lens cap (1) BNC (male) ~Phono (female) adapter (1) Operating Instructions (1)

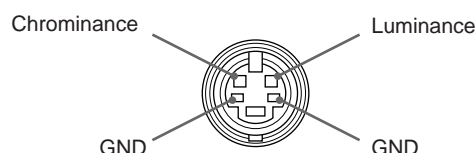
## Optional accessories

Projector Lamp PK-PJ500 (for replacement)  
Projector Suspension Support PSS-500  
Signal Interface cable SIC-10  
Projection Lens VPLL-FM100  
Carrying Case VLC-500

Some items may not be available in certain areas. For details, please consult your nearest Sony office.

## Pin assignment

### S VIDEO connector (4 pin, mini-DIN)

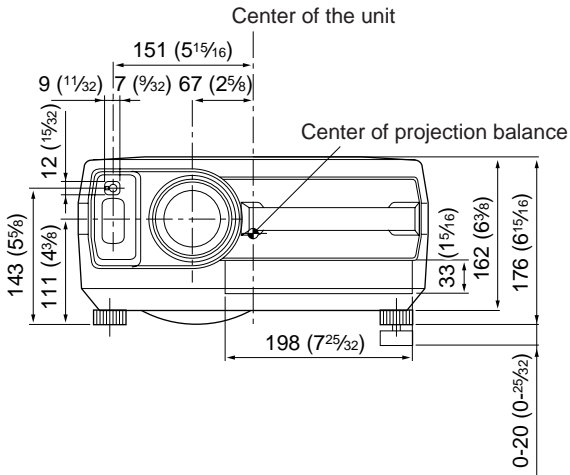


Design and specifications are subject to change without notice.

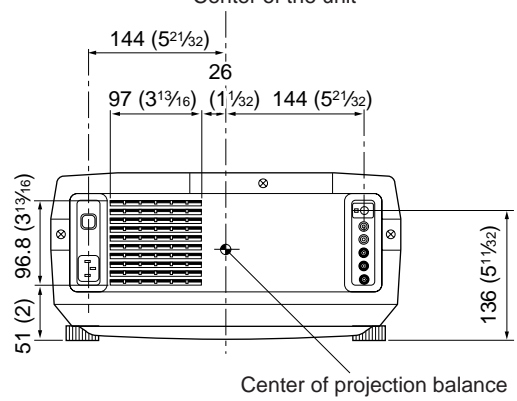
2) 120V operation when using the projector in North America region.

# Dimensions

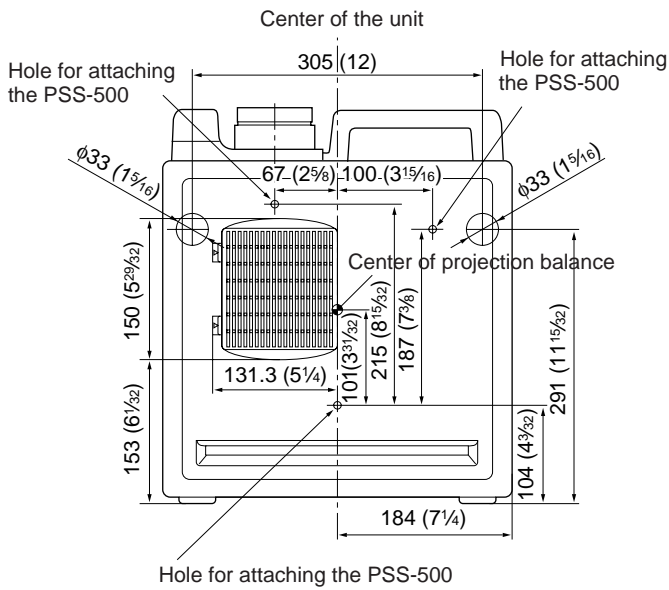
Front



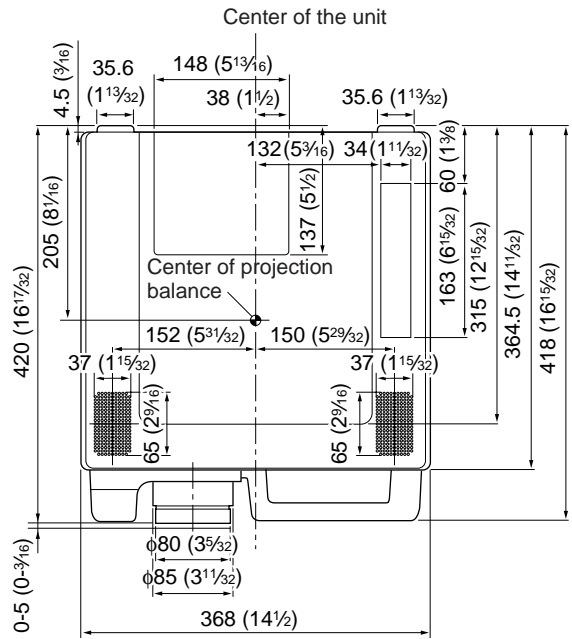
Rear



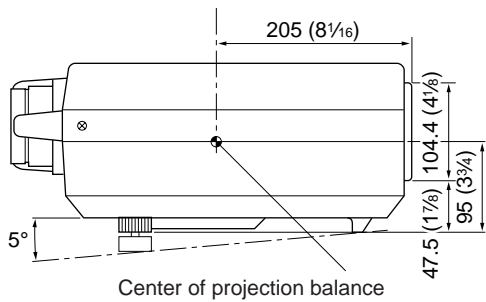
Bottom



Top



Side



Unit: mm (inches)

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