SONY®

Video Projector

Operating Instructions

SXRD
Silicon X-tal Reflective Display

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

VPL-VW100
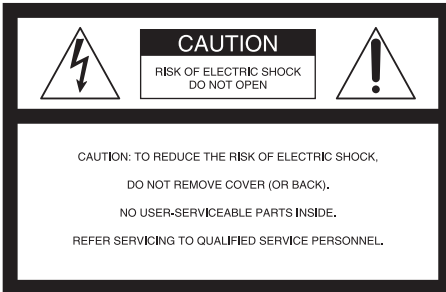
WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

If you have any questions about this product, you may call:
Sony Customer Information Service Center
1-800-222-7669 or http://www.sony.com/
The number below is for FCC related matters only.

Declaration of Conformity

Trade Name: SONY
Model No.: VPL-VW100
Responsible Party: Sony Electronics Inc.

Address: 16450 W. Bernardo Dr, San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

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.

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 complies with Canadian ICES-003.

Voor de klanten in Nederland

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).

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

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSED OF USED BATTERIES ACCORDING TO THE LOCAL RULES.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Table of Contents

Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply.
- 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 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 to 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.
- Do not place your hand or objects near the ventilation holes. The air coming out is hot.

On preventing internal heat build-up

After you turn off the power with the I/(¹) (on/standby) switch, do not disconnect the unit from the wall outlet while the cooling fan is still running.

Caution

The projector is equipped with ventilation holes (intake) and ventilation holes (exhaust). Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.
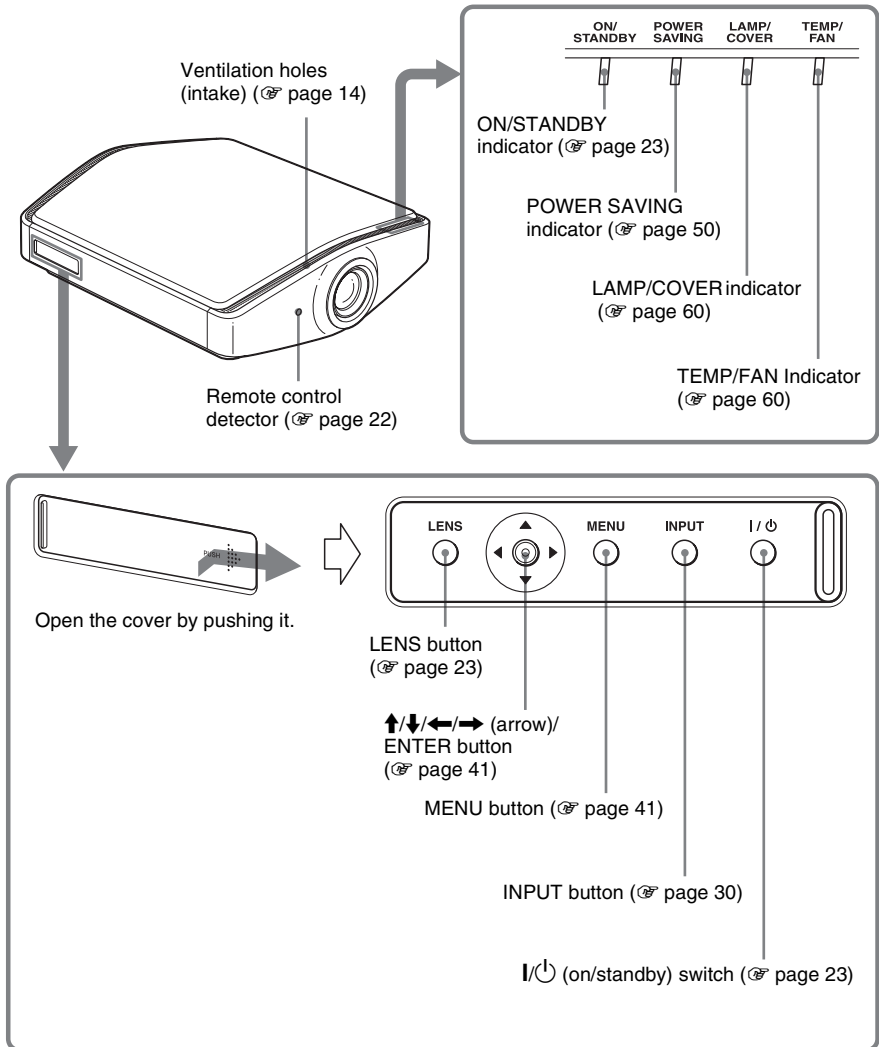
On repacking

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.
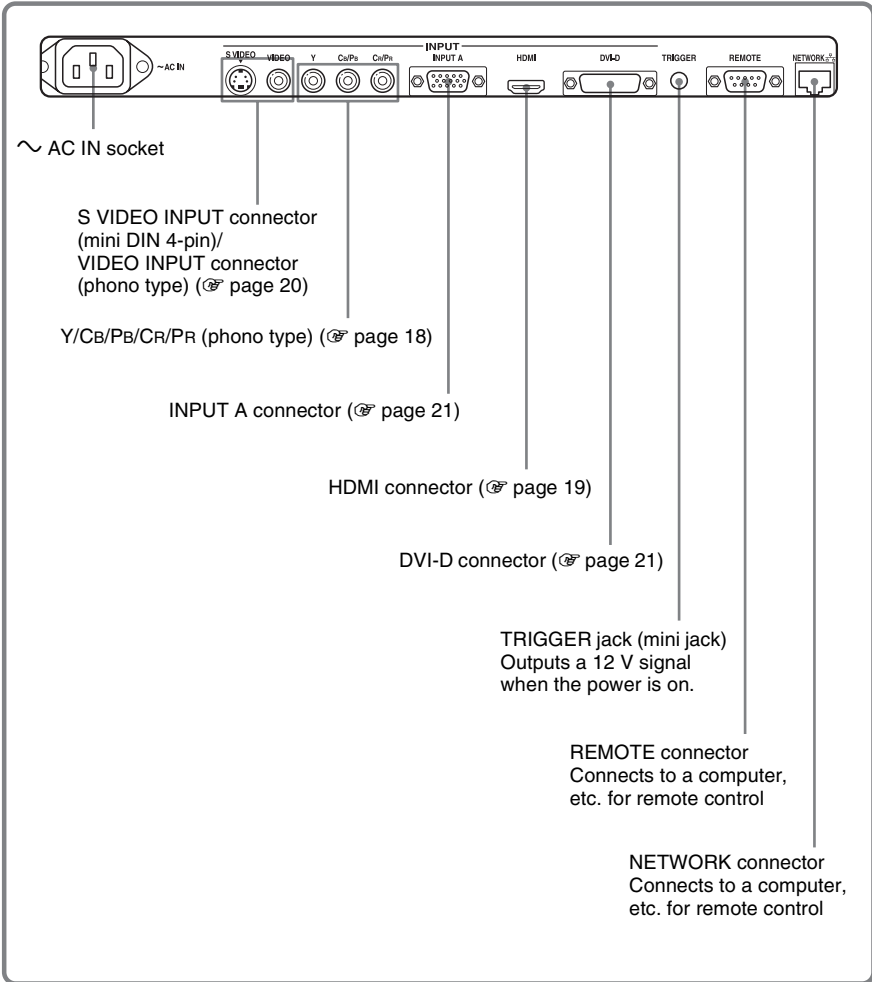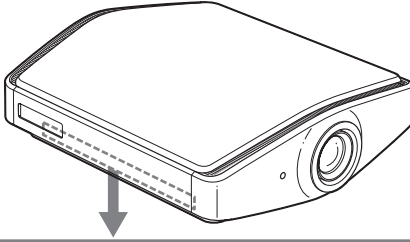
Location of Controls

Front/Right Side

You can use the buttons on the control panel with the same names as those on the remote control to operate the projector.

ON/STANDBY

POWER SAVING

LAMP/COVER

TEMP/FAN

Ventilation holes
(intake) (☞ page 14)

ON/STANDBY
indicator (☞ page 23)

POWER SAVING
indicator (☞ page 50)

LAMP/COVER indicator
(☞ page 60)

Remote control
detector (☞ page 22)

TEMP/FAN Indicator
(☞ page 60)

Open the cover by pushing it.

LENS   MENU   INPUT   I / ⏻

LENS button
(☞ page 23)

↑/↓/←/→ (arrow)/
ENTER button
(☞ page 41)

MENU button (☞ page 41)

INPUT button (☞ page 30)

I/⏻ (on/standby) switch (☞ page 23)

Right Side

$\sim$ AC IN socket

S VIDEO INPUT connector
(mini DIN 4-pin)/
VIDEO INPUT connector
(phono type) (☞ page 20)

Y/CB/PB/CR/PR (phono type) (☞ page 18)

INPUT A connector (☞ page 21)

HDMI connector (☞ page 19)

DVI-D connector (☞ page 21)

TRIGGER jack (mini jack)
Outputs a 12 V signal
when the power is on.

REMOTE connector
Connects to a computer,
etc. for remote control

NETWORK connector
Connects to a computer,
etc. for remote control

Rear/Bottom

Ventilation holes (intake)
(☞ page 14)

Top cover
(☞ page 63)

Ventilation holes
(exhaust) (☞ page 14)

Remote control detector
(☞ page 22)

Cover release lever
(☞ page 63)

Projector suspension
support attachment holes
(☞ page 76)

Adjusters
(☞ page 26)

Filter holder
(☞ page 66)

Ventilation holes (intake)
(☞ page 14)

Remote Control

Infrared transmitter

INPUT button
(☞ page 30)

LIGHT button
Illuminates the buttons on
the remote control.

PICTURE MODE
buttons (☞ page 36)

ADJ PIC button
(☞ page 37)

LENS button
(☞ page 22)

WIDE MODE button
(☞ page 33)

BRIGHT +/– button
(☞ page 38)

I/⏻ (on/standby) switch
(☞ page 23)

↑/↓/←/→ (arrow)/
ENTER buttons
(☞ page 41)

MENU button
(☞ page 41)

RESET button
(☞ page 43)

RCP button
(☞ page 39)

CONTRAST +/– button
(☞ page 38)

LIGHT   INPUT   I/⏻

DYNAMIC   STANDARD   CINEMA
PICTURE MODE
USER 1   USER 2   USER 3

ENTER

LENS   ADJ PIC   MENU

WIDE MODE   RCP   RESET

REAL COLOR PROCESSING
BRIGHT   CONTRAST

Connections and Preparations

This section describes how to install the projector and screen, how to connect the equipment from which you want to project the picture, etc.
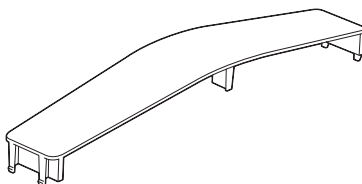
Unpacking

Check the carton to make sure it contains the following items:

• Remote control (1) and
  Size AA (R6) batteries (2)
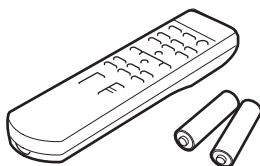
• Air filter cover (1)
  This air filter cover is used only when the projector is installed on a ceiling.
 (☞ page 76)

• AC power cord (1)
• ImageDirector2 CD-ROM (1)
• Plug holder
  Attach the plug holder to avoid unplugging the AC power cord accidentally.

• Lens cap (1)
  When you have purchased the projector, the lens cap was fitted onto the lens. Remove this lens cap when you use the projector.
• Operating Instructions (this manual) (1)

Inserting the batteries into the remote control

Insert the batteries ⊖ side first as shown in the illustration. Inserting them forcibly or with the polarities reversed may cause a short circuit and may generate heat.
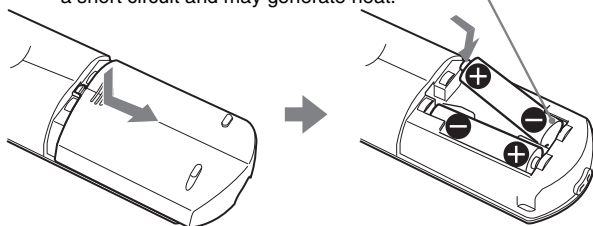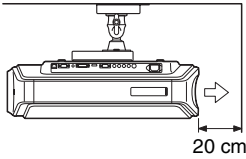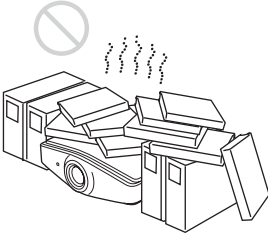
Step 1: Installing the Projector
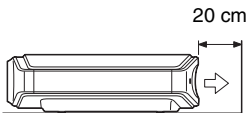
Before Setting Up the Projector

Unsuitable installation

Do not place the projector in the following situations, which may cause malfunction or damage to the projector.

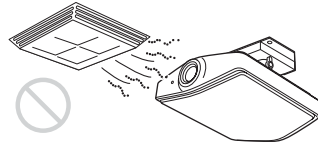### Poorly ventilated location

20 cm

⇨ : Exhaust

20 cm

To maintain the performance and reliability of the projector, do not put any object within 20 cm (7 $^7/_8$ inches) from the rear panel. The temperature of the wall may be affected if you do so.
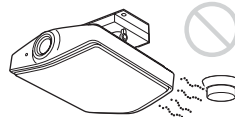
Hot and humid

Locations subject to direct cool or warm air from an air-conditioner

Installing the projector in such a location may cause a malfunction of the unit due to moisture condensation or rise in temperature.

Near a heat or smoke sensor
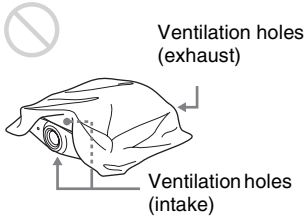

Malfunction of the sensor may occur.

Very dusty and extremely smoky locations

Improper use

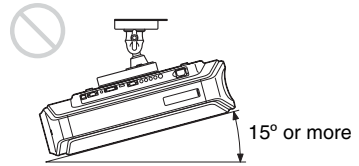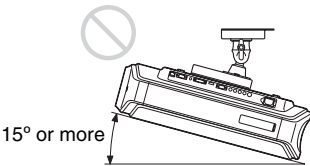**Do not do any of the following while using the projector.**

Blocking the ventilation holes.
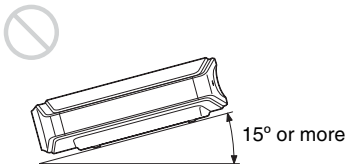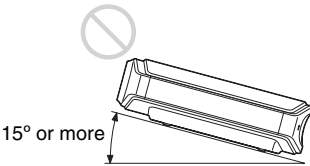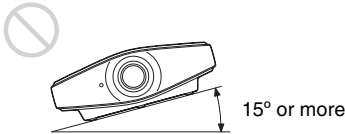

Ventilation holes
(exhaust)

Ventilation holes
(intake)

Tip

For details on the location of the ventilation holes (intake or exhaust), see "Location of Controls" on pages 8 to 10.

Tilting front/rear and left/right

15° or more

15° or more

15° or more

15° or more

15° or more

Avoid using the projector tilted at an angle of more than 15 degrees.
Do not install the projector anywhere other than on a level surface or on the ceiling. Improper installation of the projector may cause a malfunction.

When installing the unit at altitudes

When using the projector at an altitude of 1,500 m or higher, set "High Altitude Mode" in the Installation ▶️ menu to "On." (☞ page 52) Failing to set this mode when using the projector at high altitudes could have adverse effects, such as reducing the reliability of certain components.

Installing the Projector and a Screen

The installation distance between the projector and a screen varies depending on the size of the screen.

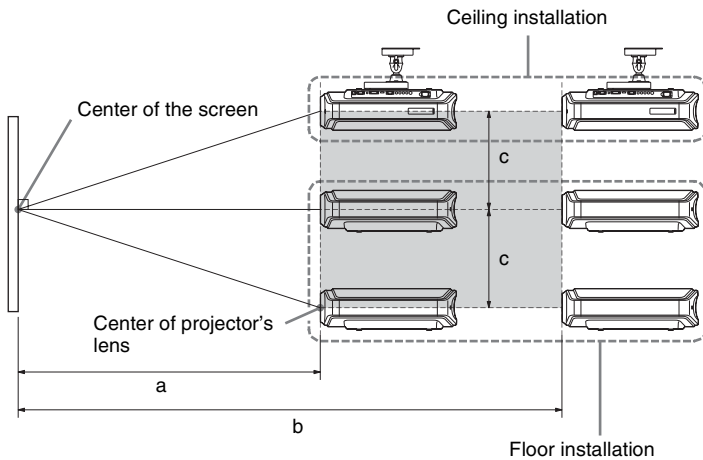**1 Determine the installation position of the projector and screen.**

You can obtain a good quality picture if you position the projector with the center of the lens within the areas indicated in the gray areas in the illustration. Use the values a, b and c in the table on page 16 as a guide.

- **a:** Minimum projection distance between the screen and the center of the projector's lens
- **b:** Maximum projection distance between the screen and the center of the projector's lens
- **c:** Vertical distance between the center of the screen and the center of the projector's lens when using the maximum upper vertical lens shift feature.

For details on the lens shift feature, see "Step 3: Adjusting the Picture Size and Position." (☞ page 22)

When using the 16:9 aspect ratio screen

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	300
a (minimum)	1212 ($47\,^3/_4$)	1842 ($72\,^1/_2$)	2472 ($97\,^3/_8$)	3102 ($122\,^1/_8$)	3732 ($146\,^7/_8$)	4677 ($184\,^1/_8$)	5622 ($221\,^3/_8$)	6252 ($246\,^1/_8$)	7827 ($308\,^1/_8$)	9402 ($370\,^1/_8$)
b (maximum)	2105 ($82\,^7/_8$)	3181 ($125\,^1/_4$)	4257 ($167\,^5/_8$)	5333 (210)	6409 ($252\,^3/_8$)	8023 ($315\,^7/_8$)	9637 ($379\,^3/_8$)	10713 ($421\,^3/_4$)	13403 ($527\,^5/_8$)	16093 ($633\,^5/_8$)
c	324 ($12\,^3/_4$)	485 ($19\,^1/_8$)	647 ($25\,^1/_2$)	809 ($31\,^7/_8$)	971 ($38\,^1/_4$)	1213 ($47\,^3/_4$)	1456 ($57\,^3/_8$)	1618 ($63\,^5/_8$)	2022 ($79\,^5/_8$)	2426 ($95\,^1/_2$)

To calculate the installation measurements (SS: Screen Size)
a (minimum) = 31.5 ($1\,^1/_4$) × SS − 48.2 ($1\,^{15}/_{16}$)
b (maximum) = 53.8 ($2\,^1/_8$) × SS − 46.9 ($1\,^7/_8$)
c = 8.0876 ($^{11}/_{32}$) × SS

When using the 4:3 aspect ratio screen (projecting a 4:3 picture)

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	300
a (minimum)	1494 ($58\,^3/_4$)	2265 ($89\,^1/_8$)	3036 ($119\,^1/_2$)	3807 ($149\,^7/_8$)	4578 ($180\,^1/_4$)	5734 ($225\,^3/_4$)	6891 ($271\,^1/_4$)	7662 ($301\,^5/_8$)	9590 ($377\,^1/_2$)	11517 ($453\,^3/_8$)
b (maximum)	2587 ($101\,^7/_8$)	3904 ($153\,^5/_8$)	5220 ($205\,^1/_2$)	6537 ($257\,^3/_8$)	7854 ($309\,^1/_4$)	9829 (387)	11805 ($464\,^3/_4$)	13122 ($516\,^5/_8$)	16414 ($646\,^1/_4$)	19706 ($775\,^7/_8$)
c	396 ($15\,^5/_8$)	594 ($23\,^3/_8$)	792 ($31\,^1/_8$)	990 (39)	1188 ($46\,^3/_4$)	1485 ($58\,^1/_2$)	1782 ($70\,^1/_8$)	1980 ($77\,^7/_8$)	2474 ($97\,^3/_8$)	2969 ($116\,^7/_8$)

To calculate the installation measurements (SS: Screen Size)
a (minimum) = 38.551 ($1\,^9/_{16}$) × SS − 48.2 ($1\,^{15}/_{16}$)
b (maximum) = 65.842 ($2\,^5/_8$) × SS − 46.9 ($1\,^7/_8$)
c = 9.8979 ($^{13}/_{32}$) × SS

2 Position the projector so that the lens is parallel to the screen.

Top view
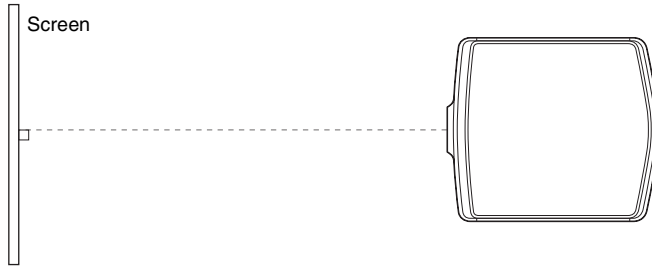
Screen

3 Project an image on the screen and adjust the picture so that it fits the screen. (☞ page 22)

To project an image, connect video equipment to the projector. (☞ page 18)

Note

When using a screen with an uneven surface, stripes pattern may rarely appear on the screen depending on the distance between the screen and the projector or the zooming magnifications. This is not a malfunction of the projector.

For installation of the projector on a ceiling, see "Ceiling Installation." (☞ page 76)

Step 2: Connecting the Projector

When making connections, be sure to do the following:
- Turn off all equipment before making any connections.
- Use the proper cables for each connection.
- Insert the cable plugs 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.
- Refer to the operating instructions of the connected equipment.

Connecting to a DVD Player/Recorder or Digital Tuner

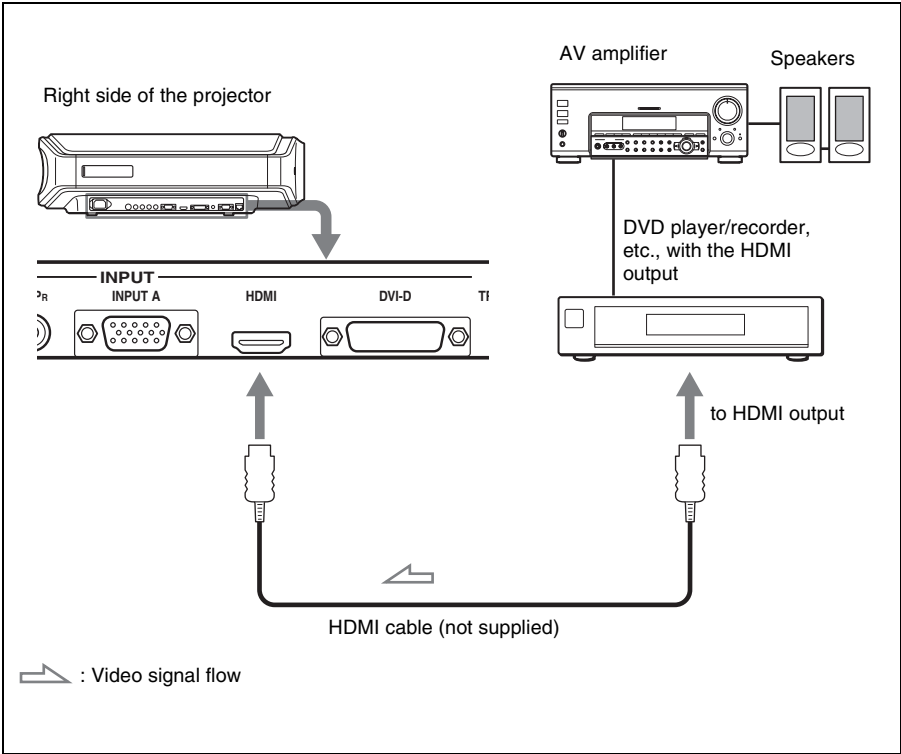**To connect to a DVD player/recorder or digital tuner equipped with component video connectors**
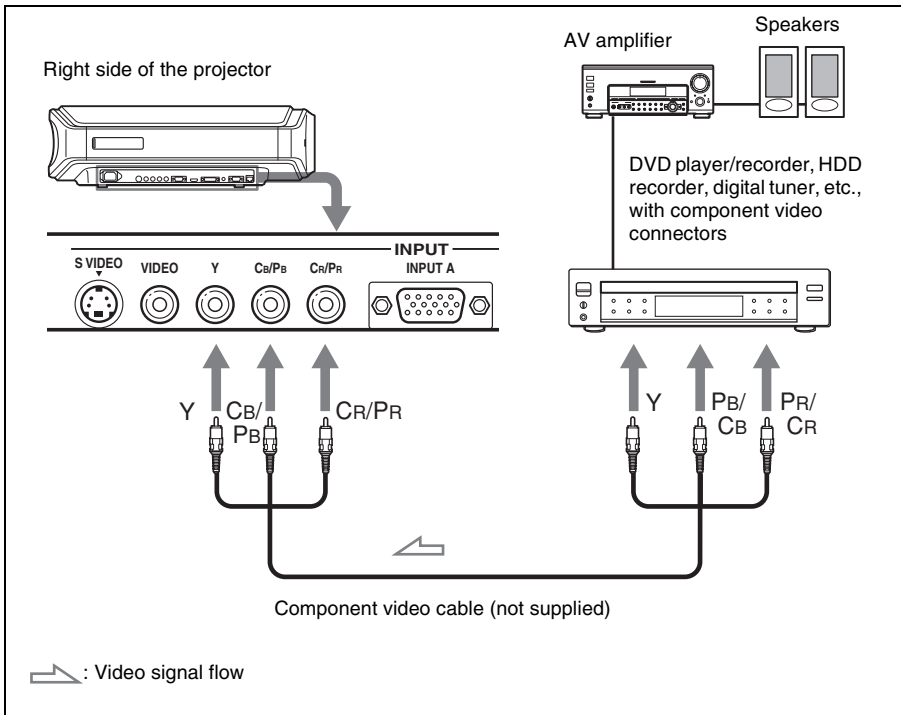
Tip

To connect the projector to a DVD player/recorder, HDD recorder, digital tuner, etc. which is not equipped with component video connectors, it is recommended to use the S video cable to connect to the S-video output of the DVD player/recorder, HDD recorder, digital tuner, etc. If the connected equipment is not equipped with the S-video output connector, use the video cable to connect to the video output jack on the equipment.

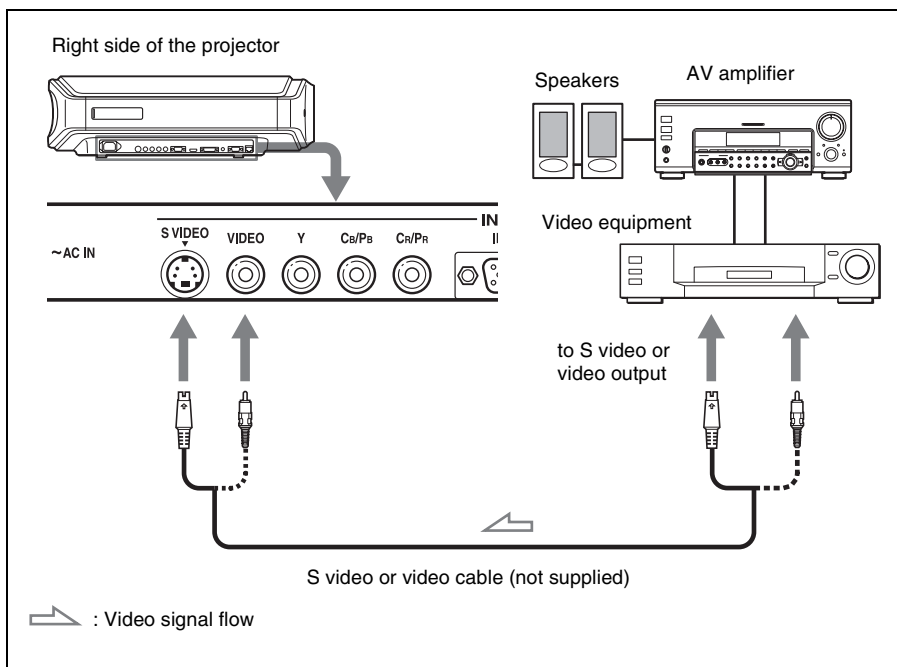### To connect to a DVD player/recorder equipped with HDMI output

You can enjoy better picture quality by connecting a DVD player/recorder equipped with HDMI output to the HDMI input of the projector.

Right side of the projector

AV amplifier

Speakers

DVD player/recorder, etc., with the HDMI output

INPUT

PR INPUT A HDMI DVI-D TF

to HDMI output

HDMI cable (not supplied)

: Video signal flow

....
HDMI, HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. This HDMI connector conforms to Ver. 1.1.

Connecting to Video Equipment

You can connect a DVD player/recorder which is not equipped with component video connectors, hard disk video recorder, VCR or laser disk player. See also the instruction manual of each equipment.
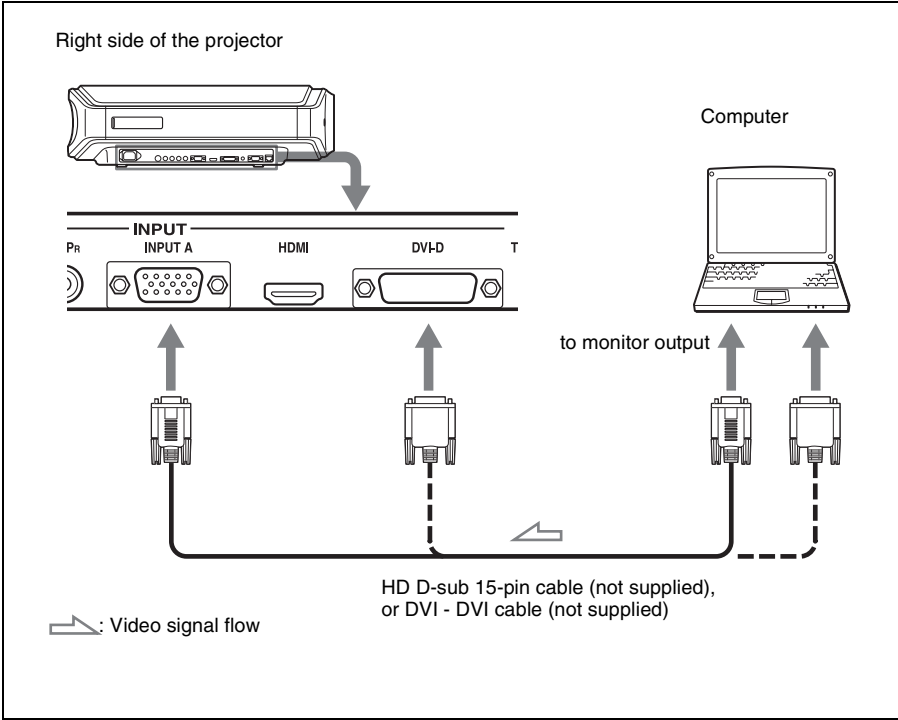

Right side of the projector

Speakers   AV amplifier

Video equipment

~AC IN   S VIDEO   VIDEO   Y   C$_B$/P$_B$ C$_R$/P$_R$ II

to S video or
video output

S video or video cable (not supplied)

◁═ : Video signal flow

Tip
If you do not know to which connector you should connect the cable, S VIDEO INPUT (S video input connector) or VIDEO INPUT (video input connector), connect it to S VIDEO to enjoy better picture quality.
If the equipment to be connected has no S video connector, connect the cable to the video output.

Connecting to a Computer

Right side of the projector

Computer

INPUT

Pᵣ INPUT A   HDMI   DVI-D   T

to monitor output

HD D-sub 15-pin cable (not supplied),
or DVI - DVI cable (not supplied)

⟋: Video signal flow

Tip
Set "Input-A Signal Sel." or "DVI Signal Sel." in the Setup 🔧 menu to "Auto" or
"Computer." If the input signal does not appear properly, set it to "Computer." (☞ page
53)

Note
If you set your computer, such as a notebook type, to output the signal to both your
computer's display and an external monitor, the picture of the external monitor may not
appear properly. Set your computer to output the signal to only the external monitor.
For details, refer to the computer's operating instructions supplied with your computer.

Step 3: Adjusting the Picture Size and Position

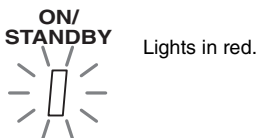Project an image on the screen and then adjust the picture position.

ON/STANDBY indicator

Adjusters

Remote control detector

4

2

5,6,7
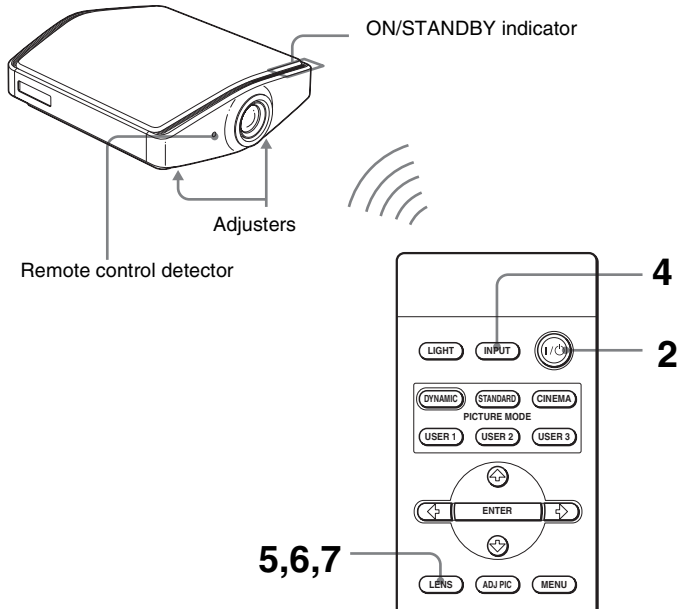
Tip
The I/$\circlearrowleft$ (on/standby), INPUT, LENS, MENU, and ↑/↓/←/→/ENTER (joystick) buttons on the side panel of the projector function the same as those on the remote control.

Note

Depending on the installation location of the projector, you may not control it with the remote control. In this case, point the remote control to the screen instead of the projector.
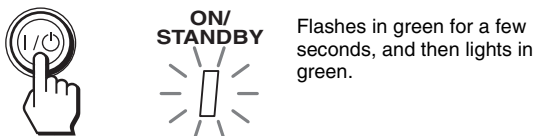
1 Plug the AC power cord into a wall outlet.

The ON/STANDBY indicator lights in red and the projector goes into standby mode.

**ON/
STANDBY**   Lights in red.

2 Press the I/Ⅰ (on/standby) switch to turn on the projector.

The ON/STANDBY indicator flashes in green, and then lights in green.

**ON/
STANDBY**   Flashes in green for a few seconds, and then lights in green.

3 Turn on the equipment connected to the projector.

Refer to the operating instructions of the connected equipment.

4 Press INPUT to project the picture on the screen.

Each time you press the button, the input indication and equipment to be projected change. (☞ page 30)

INPUT

Video

Tip

When "Auto Input Search" is set to "On" in the Function 🗐 menu, the channel of the signal input is automatically displayed by pressing INPUT. (☞ page 50)

5 Adjust the vertical picture position.

Press the LENS button repeatedly until the Lens Shift adjustment window (test pattern) appears. Then select the proper vertical position by pressing the ↑/↓/←/→ buttons.
To move the position upward, press ↑ or →.
To move the position downward, press ↓ or ←.

Tip
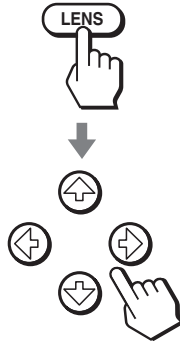
When "Lens Control" is set to "Off" on the Installation ▶☐ menu, you cannot adjust the vertical picture position. (☞ page 51)
When "Test Pattern" is set to "Off" on the Function 📑 menu, the test pattern is not displayed. (☞ page 50)

The picture moves up by a maximum of 0.65 of the screen size from the center of the lens.

Side view

0.65V

1V

▢ : Picture position when the picture is moved upward at the maximum

Tip
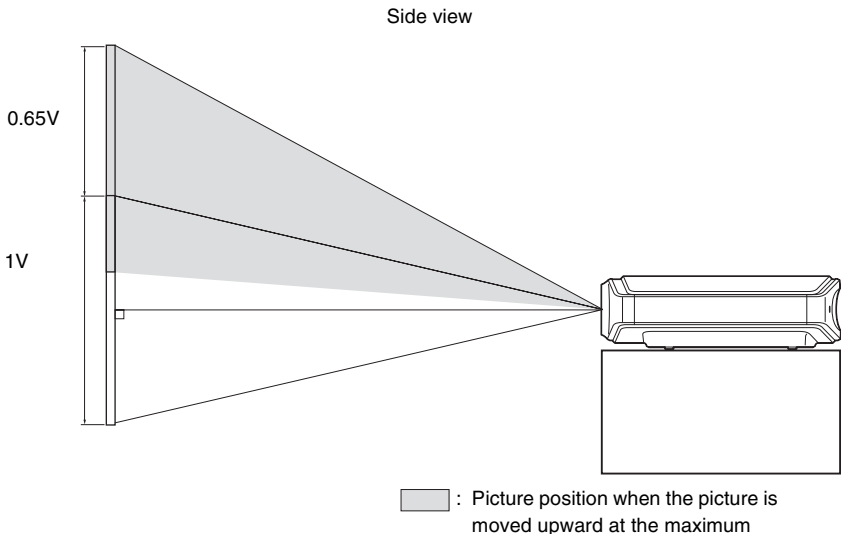
You can also adjust the horizontal position of the lens. For detailed information, see "Making Fine Adjustments to the Horizontal Picture Position" on page 83.

6 Adjust the picture size.

Press the LENS button repeatedly until the Lens Zoom adjustment window (test pattern) appears. Then adjust the size of the picture by pressing the ↑/↓/←/→ buttons.
To make the picture larger, press ↑ or →.
To make the picture smaller, press ↓ or ←.

Tip
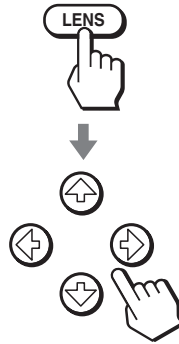
When "Lens Control" is set to "Off" on the Installation ▶▢ menu, you cannot adjust the picture size and the focus. (☞ page 51)
When "Test Pattern" is set to "Off" on the Function ▤ menu, the test pattern is not displayed. (☞ page 50)

7 Adjust the focus.

Press the LENS button repeatedly until the Lens Focus adjustment window (test pattern) appears. Then adjust the focus of the picture by pressing the ↑/↓/←/→ buttons.
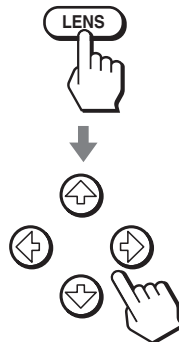
To adjust the tilt of the installation surface

If the projector is installed on an uneven surface, use the adjusters to keep the projector level.

Turn to adjust.
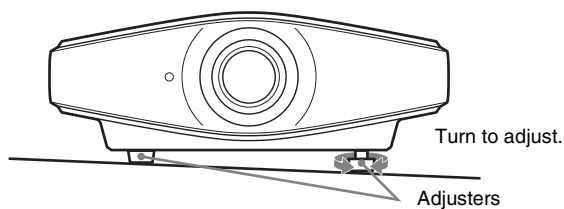
Adjusters

Note

Be careful not to catch your finger when turning the adjusters.

Step 4: Selecting the Menu Language

You can select one of fifteen languages for displaying the menu and other on-screen displays. The factory default setting is English.
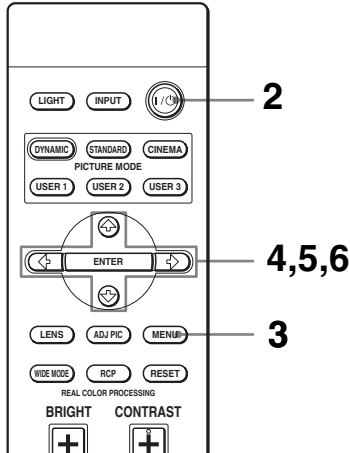
Tip

You can operate the menu using the ↑/↓/←/→ (arrow)/ENTER buttons on the side panel of the projector instead of the ↑/↓/←/→/ENTER buttons on the remote control.

1 Plug the AC power cord into a wall outlet.

The ON/STANDBY indicator lights in red and the projector goes into standby mode.

2 Press the I/(¹) (on/standby) switch to turn on the projector.

The ON/STANDBY indicator flashes in green, and then lights in green.

3 Press MENU.

The menu appears.

	Picture Mode :	Cinema
■ Picture	Adjust Picture	▶
	RCP :	Off
⊞ Signal	Color Space :	Normal
⬛ Function		
⬛ Installation		
⬛ Setup		
ⓘ Information		

Sel :[↑][↓] Set :[ENTER] Back :[◀] Exit :[MENU]
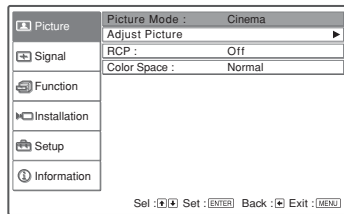
4 **Press ↑ or ↓ to select the Setup 🧰 menu, and press ➡ or ENTER.**

The setting items of the selected menu appears.

Picture	Status :	On
Signal	Language :	English
Function	Input-A Signal Sel. :	Computer
	DVI Signal Sel. :	Video GBR
Installation	Color System :	Auto
Setup		
Information		

Sel:↑↓ Set:ENTER Back:← Exit:MENU

5 **Press ↑ or ↓ to select "Language," and press ➡ or ENTER.**
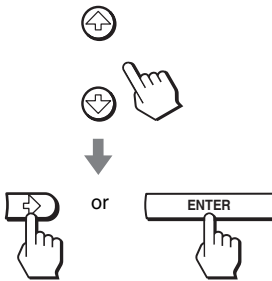
Picture	Status :	On	
	Language :	English	日本語
Signal	Input-A Signal Sel.	Nederlands	中文(简体字)
	DVI Signal Sel. :	Français	中文(繁體字)
Function	Color System :	Italiano	한국어
		Deutsch	ภาษาไทย
Installation		Español	
		Português	
Setup		Русский	
		Svenska	
Information		Norsk	

Sel :↑↓ Set : ENTER Exit : MENU

6 **Press ↑/↓/←/➡ to select a language, and press ENTER.**

The menu changes to the selected language.
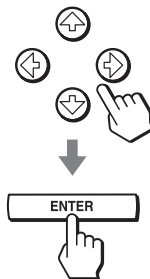
To clear the menu
Press MENU.

Projecting

This section describes how to operate the projector to view the picture from the equipment connected to the projector. It also describes how to adjust the quality of the picture to suit your taste.

Projecting the Picture on the Screen
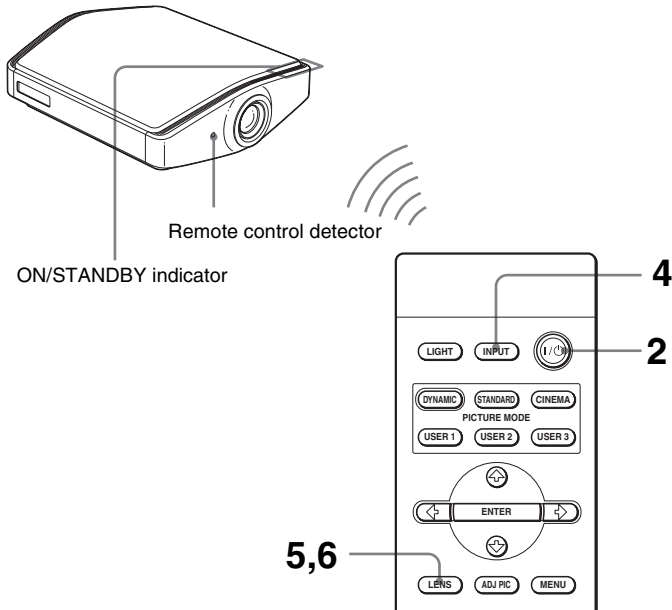
Remote control detector

ON/STANDBY indicator

1 **Plug the AC power cord into a wall outlet.**
The ON/STANDBY indicator lights in red and the projector goes into standby mode.

**ON/
STANDBY**   Lights in red.

2 Press the I/⏻ (on/standby) switch to turn on the projector.

The ON/STANDBY indicator flashes in green, and then lights in green.

**ON/
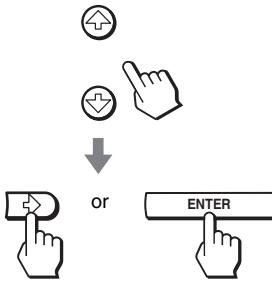STANDBY** Flashes in green for a few
seconds, and then lights in
green.

3 Turn on the equipment connected to the projector.

Refer to the operating instructions of the connected equipment.

4 Press INPUT repeatedly to select the input you want to project on the screen.

Display the indication of the input you want.

Example: To view the picture from the video equipment connected to the VIDEO INPUT connector.

INPUT

⊡ Video

To view the picture from	Press INPUT to display
Video equipment connected to the VIDEO INPUT connector	Video
Video equipment connected to S VIDEO INPUT connector	S-Video
Component equipment connected to Y/CB/PB/CR/PR on the projector	Component
RGB/component equipment connected to the INPUT A connector	Input-A*
Video equipment connected to the DVI-D connector	DVI*
Equipment connected to the HDMI connector	HDMI

*Set the "Input-A Signal Sel." setting and "DVI Signal Sel." setting in the Setup 🖼 menu according to the signal input. When you set it to "Auto," and cannot display the picture properly, select an appropriate signal according to the input signal. (☞ page 53)

Tip

When "Auto Input Search" is set to "On" in the Function 🗐 menu, the channel of the input signal is automatically displayed when you press INPUT.

5 Adjust the picture size.

Press the LENS button repeatedly until the Lens Zoom adjustment window (test pattern) appears. Then adjust the size of the picture by using the ↑/↓/←/→ buttons.
To make the picture larger, press ↑ or →.
To make the picture smaller, press ↓ or ←.

Tip
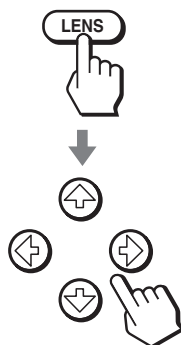
When "Lens Control" is set to "Off" on the Installation ▶☐ menu, you cannot adjust the picture size and the focus of the picture. (☞ page 51)
When "Test Pattern" is set to "Off" on the Function ☐ menu, the test pattern is not displayed. (☞ page 50)

6 Adjust the focus.

Press the LENS button repeatedly until the Lens Focus adjustment window (test pattern) appears. Then adjust the focus of the picture by using the ↑/↓/←/→ buttons.
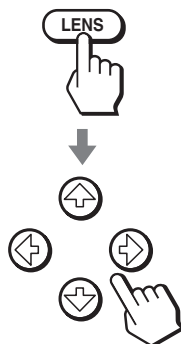
To adjust the vertical position

You can also adjust the vertical position using the LENS button. (☞ page 23)

Turning Off the Power

1 Press the I/⏻ (on/standby) switch.

A message "POWER OFF?" appears on the screen.

2 Press the I/⏻ switch again.

The ON/STANDBY indicator flashes in green and the fan continues to run to reduce the internal heat. First, the ON/STANDBY indicator flashes quickly, during which you will not be able to light up the ON/STANDBY indicator with the I/⏻ switch.

3 Unplug the AC power cord from the wall outlet after the fan stops running and the ON/STANDBY indicator lights in red.

You can turn off the projector by holding the I/⏻ (on/standby) switch for about one second, instead of performing the above steps.

Selecting the Wide Screen Mode

You can enjoy various wide screen modes according to the video signal received. You can also select it using the menu. (☞ page 47)
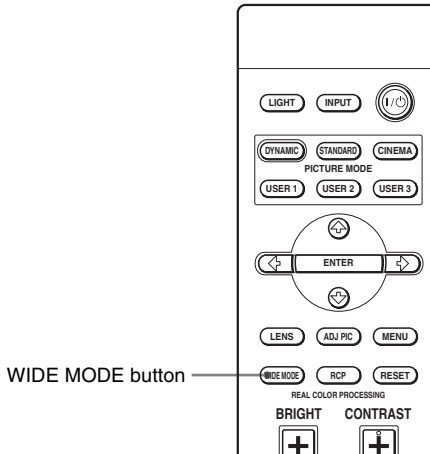
WIDE MODE button

Press WIDE MODE.

Each time you press the button, you can select the "Wide Mode" setting.

Full

A picture squeezed to 4:3 is displayed with the correct aspect ratio. A 4:3 picture is enlarged horizontally to fit the 16:9 screen.

Tip

Squeezed: An original 16:9 aspect ratio picture is recorded horizontally compressed to a 4:3 picture.

Normal

A picture with normal 4:3 aspect ratio is displayed in the center of the screen to fill the vertical screen size.

Wide Zoom

A 4:3 aspect ratio picture is enlarged and the upper and lower portions of the picture are compressed to fit the 16:9 screen. Use this mode to view news, variety shows, etc.

Zoom

A normal 4:3 aspect ratio picture is enlarged vertically and horizontally in the same ratio to fill the screen. Use this mode to view a letterbox picture.

Subtitle

The subtitle area is compressed and displayed in the lower part of the screen. Use this mode to view a movie with subtitles.

Good-bye

Notes

- You can adjust the vertical position of the picture with "V Position" in the Signal ⊞ menu only when "Zoom" or "Subtitle" is selected (☞ page 48).
- You can adjust the position of the subtitles with "Title Area" in the Signal ⊞ menu only when "Subtitle" is selected (☞ page 48).

Notes on selecting the wide screen mode

- Select the wide screen mode taking into account that changing the aspect ratio of the original picture will provide a different look from that of the original image.
- Note that if the projector is used for profit or for public viewing, modifying the original picture by switching to the wide mode may constitute an infringement of the rights of authors or producers, which are legally protected.

Selecting the Picture Viewing Mode

You can select the picture viewing mode that best suits the type of program or room conditions.

PICTURE MODE buttons
  DYNAMIC
  STANDARD
  CINEMA
  USER 1, USER 2 and USER 3
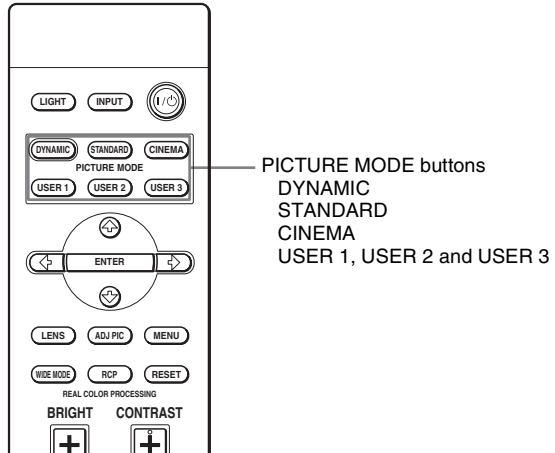
Press one of the PICTURE MODE buttons (DYNAMIC, STANDARD, CINEMA and USER 1, USER 2 and USER 3).

DYNAMIC
Enhances picture contrast and sharpness.

STANDARD
Recommended for normal viewing conditions. Select this if you encounter roughness when viewing the picture with "DYNAMIC."

CINEMA
Recommended when viewing a movie in the dark place.

USER 1, USER 2 and USER 3
You can adjust the quality of the picture to suit your taste and store the settings into the selected memory of the projector. Press one of the USER 1, USER 2 and USER 3 buttons, then adjust the picture by using the buttons on the remote control or the menus. (☞ pages 37 and 44) The settings are stored, and you can view the picture with the adjusted picture quality by pressing the button.

Adjusting the Picture Quality

You can adjust the picture quality that suits your taste by selecting the adjustment items with the remote control. The adjusted data can be stored in each picture mode.

ADJ PIC button

CONTRAST +/– button
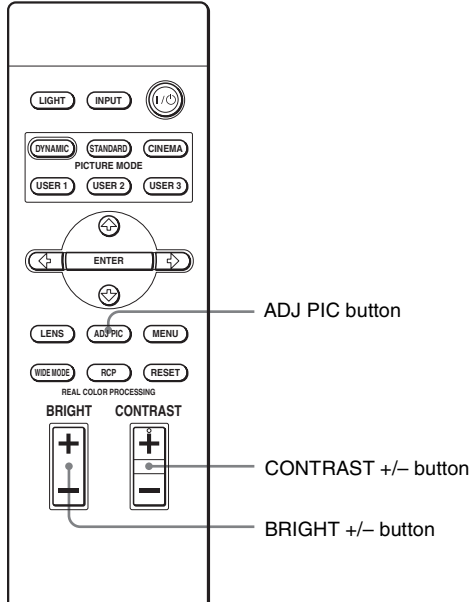
BRIGHT +/– button

1 Press ADJ PIC.

Each time you press the button, the following adjustment windows* are displayed in sequence.

Contrast → Brightness → Color → Hue → Sharpness → NR
↑ ↓
Advanced Iris ← Color Temp. ← Gamma Correction ← Black Level Adj.

* Some of the above adjustment windows will not be displayed depending on the input signal. For details, see "Input Signals and Adjustable/Setting Items." (☞ page 74)

Example: To adjust the contrast


```
Contrast        0    ━ ━━
```
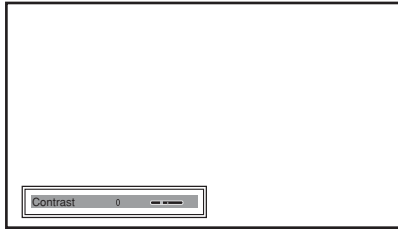
For details on each adjustment, see "Adjust Picture" in the Picture 🖼
menu. (☞ page 44)

2 Make the setting or adjustment on an item.

When changing the adjustment level
To increase the value, press ➡.
To decrease the value, press ⬅.

When changing the setting
Press ⬆ or ⬇ to change the setting.

To adjust contrast and brightness

Press CONTRAST +/– on the remote control to adjust the contrast.
Press BRIGHT +/– on the remote control to adjust the brightness.

Adjusting the Picture Using Real Color Processing

The Real Color Processing (RCP) feature allows you to adjust the color and hue of each target of the projected picture you specify independently. You can thus obtain a picture more suitable to your taste.
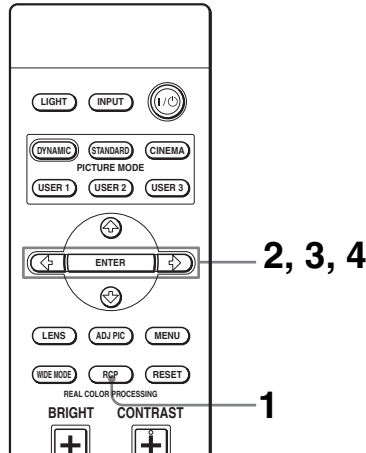
Tip

Freeze the scene of the video source when you are adjusting the picture using Real Color Processing.

1 **Press RCP on the remote control.**

2 **Press ↑ or ↓ to select "User 1," "User 2" or "User 3," then press →.**

The RCP (Real Color Processing) window appears.

3 **Select the target color you want to adjust.**

Repeat steps ❶ and ❷ described below to specify the target color.

❶ Press ↑ or ↓ to select "Color Select," then press ← or → to select the color you want to adjust among "Red," "Yellow," "Green," "Cyan," "Blue" and "Magenta."

Only the portions that correspond to the specified color will be colored and the other portions will be displayed in black and white. The reference palette in the RCP window also shows the adjustable colors. Decide the target while you are watching the projected picture, and watching the reference palette as a guide.

RCP (Real Color Processing)

Color Select :		◀	Red	▶
Position :			Adjust	
Range :			Adjust	
RCP Color :	0		──○──	
RCP Hue :	0		──○──	

Sel:▲▼ Set:ENTER Exit:MENU
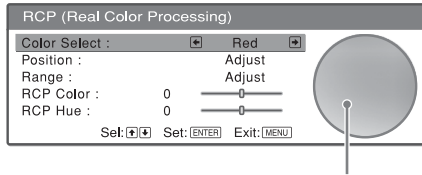
Reference palette

❷ Press ↑ or ↓ to select "Position" or "Range," and specify it more
delicate color and color range you want to adjust using ← or →.

RCP (Real Color Processing)

Color Select :			Red	
Position :		◀	Adjust	▶
Range :			Adjust	
RCP Color :	0		──○──	
RCP Hue :	0		──○──	

Sel:▲▼ Set:ENTER Exit:MENU
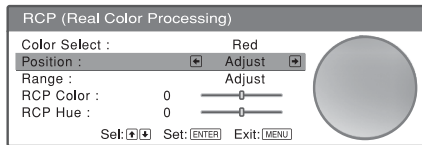
4 Adjust the color of the specified portions.

Press ↑ or ↓ to select "RCP Color" or "RCP Hue," then adjust the color or
hue of the portions selected in step 3 to suit your taste using ← or → while
watching the projected picture. The picture is returned to normal color
during adjustment.

5 After the adjustment is complete, press RCP.

The RCP window disappears and the normal picture is restored.
The adjusted data will be stored in a memory selected in step 2 and will be
recalled later.

Tip

There are some limitations on selection of position and range.

Using the Menus

This section describes how to make various adjustments and settings using the menus.

Operation through the Menus

The projector is equipped with an on-screen menu for making various adjustments and settings. Some of the adjustable/setting items are displayed in a pop-up menu, in a setting menu or adjustment menu with no main menu, or in the next menu window. If you select an item name followed by an arrow (▶), the next menu window with setting items appears.

To change the on-screen menu language, see "Step 4: Selecting the Menu Language." (☞ page 27)

2, 3, 4

1

RESET button
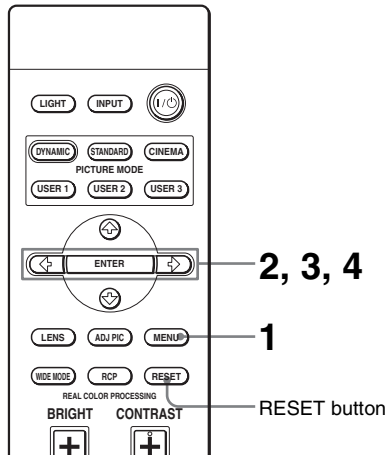
1 Press MENU.

The menu window appears.

🖼 Picture	Picture Mode :	Cinema
	Adjust Picture	▶
⊞ Signal	RCP :	Off
	Color Space :	Wide
🗐 Function		
🖵 Installation		
🏠 Setup		
ⓘ Information		

Sel:↑↓ Set:ENTER Back:⊕ Exit:MENU
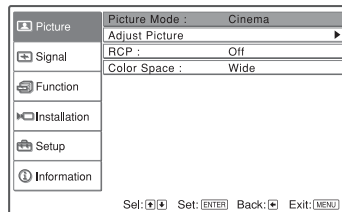
2 **Press ↑ or ↓ to select a menu item, and press → or ENTER.**

The items that can be set or adjusted with the selected menu appear. The item presently selected is shown in yellow.

Picture	Status : On
Signal	Language : English
Function	Input-A Signal Sel. : Component
Installation	DVI Signal Sel. : Video GBR
Setup	Color System : Auto
Information	

Sel:↑↓ Set:ENTER Back:→ Exit:MENU
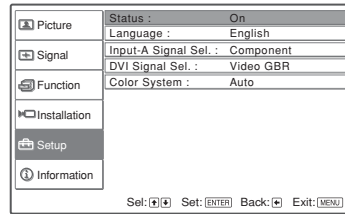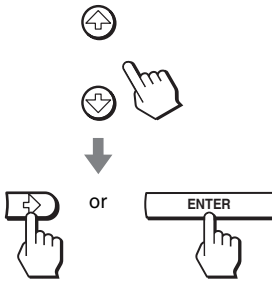
3 **Press ↑ or ↓ to select an item you want to set or adjust and press → or ENTER.**

The setting items are displayed in a pop-up menu, in a setting menu, in an adjustment menu or in the next menu window.
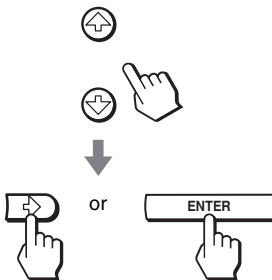
Pop-up menu

Setting items

Picture	Status : On	
Signal	Language :	English 日本語
Function	Input-A Signal Sel.	Nederlands 中文(简体字)
Installation	DVI Signal Sel. :	Français 中文(繁體字)
Setup	Color System :	Italiano 한국어
Information		Deutsch ภาษาไทย
		Español
		Português
		Русский
		Svenska
		Norsk

Sel:←↑→↓ Set:ENTER Exit:MENU

Setting menu

Picture Mode
Dynamic
Standard
Cinema
User1
User2
User3

Sel:↑↓ Set:ENTER
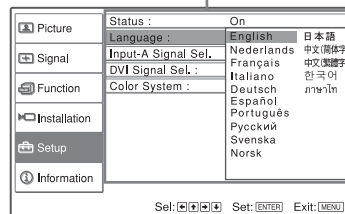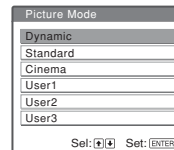
Adjustment menu
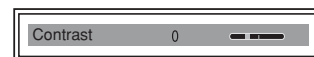
Contrast	0	▬▬▮▬▬

Next menu window

Setting items

Picture	Adjust Picture	Cinema
Signal	Contrast :	80
	Brightness :	50
Function	Color :	50
	Hue :	50
Installation	Sharpness :	50
	NR :	Off
Setup	Black Level Adj. :	Off
	Gamma Correction :	Off
Information	Color Temp :	Low
	Advanced Iris :	Auto

Sel: ↑↓ Set: ENTER Back: ◄ Exit: MENU

4 Make the setting or adjustment of an item.

When changing the adjustment level
To increase the value, press ↑ or →.
To decrease the value, press ↓ or ←.
Press ENTER to restore the original screen.

When changing the setting
Press ↑ or ↓ to change the setting.
Press ENTER to restore the original screen.
You can restore the original screen using ← depending on the selected item.

To clear the menu
Press MENU.

To reset the items that have been adjusted
Select the item you want to reset, then press RESET.
"Complete! " appears on the screen and the setting is reset to its factory preset value.
Items that can be reset are:
- "Contrast," "Brightness," "Color," "Hue," "Sharpness" and "Color Temp." in "Adjust Picture," and "RCP" on the Picture 🔳 menu
- "Dot Phase," "H Size," and "Shift" of "Adjust Signal," "V Position," "Title Area," and "DRC Palette" of "DRC Mode" on the Signal 🔳 menu
- "V Keystone" on the Installation 🔳 menu

Items that cannot be adjusted
Adjustable items are limited depending on the input signals. The items that cannot be adjusted or set do not appear in the menu. (☞ page 74)

Picture Menu

The Picture menu is used for adjusting the picture.

Adjust Picture menu
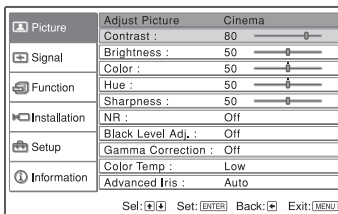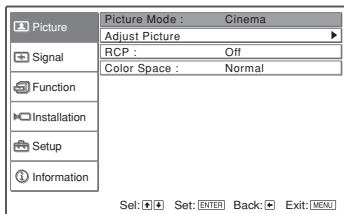
Picture Mode

You can select the picture viewing mode that best suits the type of picture or the environment.

Dynamic	**Select this for enhanced picture contrast and sharpness.**
Standard	**Recommended for normal viewing conditions. Also select this to reduce roughness compared to viewing the picture with Dynamic.**
Cinema	**Select this for a soft, film-like picture.**
User 1 **User 2** **User 3**	**You can adjust the quality of the picture to suit your taste and then store the settings.** Once the settings are stored, you can view the picture with the adjusted picture quality by pressing the PICTURE MODE button on the remote control or by selecting the desired one in "**Picture Mode**" on the Picture 🔳 menu. **To store the settings** **1** Select User 1, User 2, or User 3. **2** Adjust the items you want in the menus. Items that can be stored are: "**Adjust Picture**" items and "**Wide Mode**" "**V Position**," "**Title Area**," "**DRC Mode**," and "**Film Mode**" settings. **Tip** You can also adjust the picture quality in "**Dynamic**," "**Standard**" or "**Cinema**," and store the settings. To reset everything to the factory settings, press RESET.

Adjust Picture

You can make fine adjustments to the picture.

Contrast	**Adjusts the white area of pictures (white level).** The higher the setting, the greater the contrast. The lower the setting, the lower the contrast.

Brightness	**Adjusts the brightness of the picture.** The higher the setting, the brighter the picture. The lower the setting, the darker the picture.
Color	**Adjusts the intensity of the color density.** The higher the setting, the greater the intensity. The lower the setting, the lower the intensity.
Hue	**Adjusts the color tone.** The higher the setting, the more greenish the picture becomes. The lower the setting, the more reddish the picture becomes.
Sharpness	**Sharpens the outline of the picture, or reduces the noise.** The higher the setting, the sharper the picture. The lower the setting, the softer the picture, thus reducing the noise.
NR	**Reduces the roughness or noise of the picture.** Usually, select "**Off**." If the picture is rough or noisy, select a setting from among "**Low**," "**Middle**" or "**High**" according to the input signal source.
Black Level Adj. (Adjust)	**Produces a bolder, dynamic picture.** Set according to the input signal source. **Off:** Cancels this feature. **Low:** Gives lower emphasis to the black color. **High:** Gives higher emphasis to the black color.
Gamma Correction	**Adjusts the response characteristics of the tone of the picture.** Select a favorite tone from three options. **Off:** The feature does not function. **Gamma1:** Makes a scene a little brighter. **Gamma2:** Makes a scene brighter. **Gamma3:** Makes a scene darker. Using the specified controller, "ImageDirector2*" (supplied as a CD-ROM) allows you to adjust, set, and store a favorite tone in a computer. * For detailed information on "ImageDirector2," refer to the Help provided on the supplied CD-ROM in the computer.
Color Temp.	**Adjusts the color temperature.** **High:** Gives white colors a blue tint. **Middle:** Gives a neutral tint between "**High**" and "**Low**." **Low:** Gives white colors a red tint. **Custom1, Custom2, Custom3:** Enables you to adjust, set, and store your favorite color temperature.
Advanced Iris	**Switches the iris function during projection.** **Off:** Normal contrast. **On:** Enhances the black by emphasizing the contrast. **Auto:** Automatically switches to an optimum iris according to a projected scene. The contrast of the scene is emphasized most.

RCP (Real Color Processing)

You can adjust the color and hue of each selected portion of the picture independently.

Off	Cancels this feature.
User 1, User 2, User 3	**You can adjust the picture using Real Color Processing and store the settings. Once the settings are stored, you can view the picture with the adjusted picture quality.** For details, see "Adjusting the Picture Using Real Color Processing." (☞ page 39)

Color Space

You can convert the range of color reproduction.

Normal	Converts the color to Hi-Vision color.
Wide	Reproduces more natural color tones in a wider range of color reproduction, compared to "Normal."

Signal Menu

The Signal menu is used to adjust the input signal. You can adjust the size of the picture, and select wide screen mode, etc.

Adjust Signal menu

Picture	Adjust Signal ▶
Signal	Wide Mode : Subtitle
Function	V Position : 0
Installation	Title Area : 0
Setup	DRC Mode : Off
Information	Film Mode : Auto
	Over Scan : Off

Sel:🔼🔽 Set: ENTER Back:◄ Exit: MENU

Picture	Adjust Signal
Signal	Dot Phase : 24
Function	H Size : 1344
Installation	Shift : H:204 V:34
Setup	
Information	

Sel:🔼🔽 Set: ENTER Back:◄ Exit: MENU
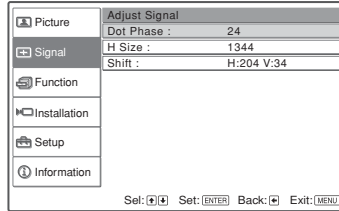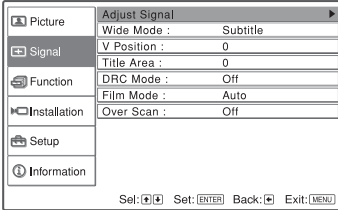
Adjust Signal

You can adjust the input signal.

Dot Phase	**Adjusts the dot phase of the panel and the computer signal.** Adjust the picture to the point where it looks clearest.
H Size	**Adjusts the horizontal size of the picture from a computer.** The higher the setting, the wider the picture. The lower the setting, the narrower the picture. Adjust the setting to match the number of dots of the input signal.
Shift	**Adjusts the position of the picture.** **H:** As the setting for **H** (horizontal) increases, the picture moves to the right, and as the setting decreases, the picture moves to the left. Use ← or → to adjust the horizontal position. **V:** As the setting for **V** (vertical) increases, the picture moves up, and as the setting decreases, the picture moves down. Use ↑ or ↓ to adjust the vertical position.

Wide Mode

You can set the aspect ratio of the picture to be displayed for the current input signal. This item is enabled only when an SD signal (preset memory numbers 1 to 6) is input.

Full	**A picture squeezed to 4:3 is displayed with the correct aspect.**
Normal	**A 4:3 aspect ratio picture is displayed to fill the vertical screen height**.
Wide Zoom	**A 4:3 aspect ratio picture is enlarged and the upper and lower portions are compressed to fit the 16:9 screen.**
Zoom	**A 4:3 aspect ratio picture is enlarged vertically and horizontally at the appropriate ratio to fill the 16:9 screen.**
Subtitle	**The subtitle area is compressed and displayed at the lower part of the screen.**

V Position	**Adjusts the vertical position of the picture in wide screen mode.** As the setting increases, the picture moves up. As the setting decreases, the picture moves down.
	Note
	This item is adjustable only when "**Zoom**" or "**Subtitle**" is selected in "**Wide Mode**."

Title Area	**Adjusts the subtitle area.**
	As the setting increases, the subtitle area moves up. As the setting decreases, the subtitle area moves down.
	Note
	This item is adjustable only when "**Subtitle**" is selected in "**Wide Mode**."

DRC Mode	**Smooths out video images that look rougher as the size increases.** **Off:** Does not change. **Mode 1:** Reproduces a fine and natural picture. This is recommended for moving pictures. **Mode 2:** Reproduces a picture where flickering is suppressed. This is recommended for still pictures. When "**Mode 1**" or "**Mode 2**" is selected in "**DRC Mode**," you can adjust the "Reality" and "Clarity" of a picture to suite your taste on the DRC palette. When the noise is strong, increase the value of a "**Clarity**." For detailed information on how to use the DRC palette, see "DRC Palette" on page 49.
Film Mode	**Reproduces 2-3 or 2-2 Pull-Down film sources with smooth picture movement.** **Auto:** Automatically detects the 2-3 or 2-2 Pull-Down format and reproduces film source with smooth picture movement. **Off:** Does not detect the 2-3 or 2-2 Pull-Down format.

Over Scan	**Hides the outline of the picture.** **On:** Hides the outline of the input picture. Select this setting when noise appears along the edge of the picture. **Off:** Projects the whole of the input picture.

Screen Area	Selects the size of the picture when a Hi-Vision picture is overscanned.
	Full: Expands the picture on the whole of the screen.
	Through: Does not expands the picture on the whole of the screen.
	Note
	This item is effective only when a Hi-Vision signal (preset memory Nos. 7, 8, 9, 12, and 13) is input and "**On**" is selected in "**Over Scan**."

DRC Palette

You can adjust the "Reality" and "Clarity" of a picture to suite your taste.
This function is effective only when "Mode 1" or "Mode 2" is selected in DRC Mode.
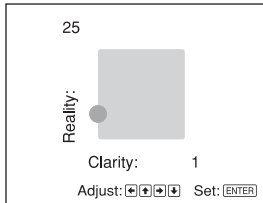
```
 25


       Clarity:        1
       Adjust: ⬅⬆➡⬇  Set: ENTER
```

To increase the value for "Clarity," press the ➡ button.
To decrease the value for "Clarity," press the ⬅ button.
To increase the value for "Reality," press the ⬆ button.
To decrease the value for "Reality," press the ⬇ button.

Function menu

The Function menu is used for changing the settings of the various functions of the projector.

Auto Input Search	**Detects the input signal and displays the detected input signal automatically when the INPUT button is pressed.** When set to "**On**," the projector detects whether a Component, HDMI, DVI, Video, S-Video or Input-A signal is input when the INPUT button is pressed. Then the detected input channel is automatically displayed. Set this to "**Off**" when you want to select a channel with no input signal, or you want to switch the channel manually.
Test Pattern	**Displays the test pattern.** When set to "**On**," a test pattern appears on the screen to be used when adjusting the lens with "**Lens Focus**," "**Lens Zoom**," and "**Lens Shift**," or correcting the screen proportions with "V Keystone." A test pattern does not appear when this item is set to "**Off**."
Standby Mode	**Lowers the power consumption in standby mode**. When set to "**Low**," the power consumption in standby mode is lowered.
Power Saving	**Sets the power saving mode.** When set to "**On**," the projector goes into power saving mode if no signal is input for 10 minutes. At that time, the POWER SAVING indicator lights in orange. The screen becomes dark. In power saving mode, the power saving mode is cancelled if a signal is input or any button is pressed. If you do not want to set the projector to power saving mode, select "**Off**."

Installation Menu

The Installation menu is used for changing the installation settings.

Picture	V Keystone :	0
Signal	Image Flip :	Off
Function	Background :	Blue
Installation	Lens Control :	On
Setup	IR Receiver :	Front & Rear
Information	Illumination :	On
	High Altitude Mode :	Off
	Network Setting...	▶

Sel: ⬆⬇ Set: ENTER Back: ◀ Exit: MENU

V Keystone	**Corrects the vertical trapezoidal distortion of the picture.**
	When the bottom of the trapezoid is longer than the top (⬜):
	  Sets a lower value (– direction)
	When the top of the trapezoid is longer than the bottom (⬜):
	  Sets a higher value (+ direction).
	Note
	Depending on the picture position adjusted with the lens shift feature, the aspect ratio of the picture may change from the original or picture distortion may occur with V Keystone adjustment.

Image Flip	**Flips the picture on the screen horizontally and/or vertically.** **Off:** The picture does not flip. **HV:** Flips the picture horizontally and vertically. **H:** Flips the picture horizontally. **V:** Flips the picture vertically. Use this item for installation for the backside projection or ceiling installation.
Background	**Selects the background color of the screen when no signal is input.** You can set the background color in "**Black**" or "**Blue**."
Lens Control	**Avoids any operation of the lens such as "Lens Focus," "Lens Zoom," and "Lens Shift," by mistake.** When set to "**On**," you can adjust the projection lens using "Lens Focus," "Lens Zoom," and "Lens Shift." After you make this adjustment, it is recommended that you set this item to "**Off**" to avoid any operation of the lens.
IR Receiver	**Selects the remote control detectors (IR Receiver) 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
Illumination	**Selects whether the illumination on the top panel of the projector lights when the projector is on.** Turns on the illumination on the top panel of the projector, when set to "**On**." It turns off when set to "**Off**."

High Altitude Mode	**Use this item when using the projector at high altitudes.** **Off:** Use this setting when using the projector at normal altitudes. **On:** Use this setting when using the projector at an altitude of 1,500 m or higher.
	Note When this item is set to "**On**," the number of turns of the fan increases.

Network Setting

You can set internet protocols such as IP address, Subnet Mask, Default Gateway, and DNS Server when accessing the projector from a computer or using "ImageDirector2" application supplied.

After completing all of settings, select "Apply" using ↓ button, then press ENTER.

IP Address Setup	**Selects either "Auto (DHCP)" or "Manual."** When you select "**Manual**," set the following "**IP Address**," "**Subnet Mask**," and "**Default Gateway**."
IP Address	**Sets the IP Address of the projector**. (1.0.0.0 to 223.255.255.255)
Subnet Mask	**Sets the Subnet Mask of the projector.** (1.0.0.0 to 255.255.255.255)
Default Gateway	**Sets the Default Gateway of the projector.** (1.0.0.0 to 223.255.255.255)
Primary DNS	**Sets the DNS server to be used as a priority.** (1.0.0.0 to 223.255.255.255)
Secondry DNS	**Sets the alternative DNS server.** (1.0.0.0 to 223.255.255.255)
MAC Address	**Displays MAC address of the projector. You cannot change.**

Note

To use the Network setting function, set "Standby Mode" to "Standard" in the Function ▭ menu. (☞ page 50)

Setup Menu

The Setup menu is used to change the factory preset settings.

Status	**Sets whether or not the on-screen display is displayed.** Set to "**Off**" to turn off the on-screen displays except for the menus, message when turning off the power, and warning messages.
Language	**Selects the language used in the menu and on-screen displays.** Available languages are: English, Dutch, French, Italian, German, Spanish, Portuguese, Russian, Swedish, Norwegian, Japanese, Chinese (Simplified Chinese), Chinese (Traditional Chinese), Korean and Thai.
Input-A Signal Sel.	**Selects the type of signal input from the equipment connected to the INPUT A connector.** Selects the type of signal input from the equipment by selecting "Input-A" with the INPUT button. **Auto:** Selects the input signal type automatically. **Computer:** Inputs the signal from a computer. **Component:** Inputs the component signal from a DVD player/ recorder, digital tuner, etc. **Video GBR:** Inputs the signal from a TV game or HDTV broadcast. **Note** When the input signal is not displayed correctly with this item set to "**Auto**," select the item according to the input signal.
DVI Signal Sel.	**Selects the type of signal input from the equipment connected to the DVI-D connector.** Selects the type of signal input from the equipment by selecting "DVI" with the INPUT button. **Auto:** Selects the input signal type automatically. **Computer:** Inputs the signal from a computer. **Video GBR:** Inputs the signal from a TV game or HDTV broadcast. **Note** When the input signal is not displayed correctly with this item set to "**Auto**," select the item according to the input signal. Be sure to remove the DVI cable to disconnect the connection between the projector and a digital tuner and so on, before setting "**DVI Signal Sel.**"

Color System	**Selects the color system of the input signal.** **Auto:** Selects the color system of the input signal automatically from among NTSC$_{3.58}$, PAL, SECAM, NTSC$_{4.43}$, PAL-M, PAL-N, or PAL60. "**NTSC$_{3.58}$**"–"**PAL-N**": Allows you to set the color system to the selected system manually. **Note** Normally, set this to "**Auto**." If the picture is distorted or colorless, select the color system appropriate for the input signal.

Information Menu

The Information menu displays the model name, serial number, the horizontal and vertical frequencies of the input signal and the cumulated hours of usage of the lamp.
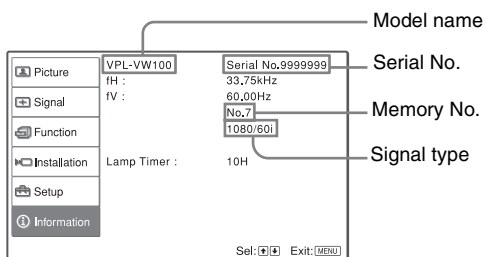
Model name	Displays the model name (VPL-VW100) and the serial number.
fH	Displays the horizontal frequency of the input signal.
fV	Displays the vertical frequency of the input signal.
Memory No.	Displays the preset memory number of the input signal.
Signal type	Displays the type of the input signal.
Lamp Timer	Indicates how long the lamp has been turned on (total usage).

Note

You cannot change the displays listed above.

About the Preset Memory No.

This projector has 42 types of preset data for input signals (the preset memory). When the preset signal is input, the projector automatically detects the signal type and recalls the data for the signal from the preset memory to adjust it to an optimum picture. The memory number and signal type of that signal are displayed in the Information 🛈 menu.
You can also adjust the preset data through the Signal ⊞ menu.
This projector also has 20 types of user memories for Input-A and DVI channels mainly for the computer signal into which you can save the setting of the adjusted data for an unpreset input signal, respectively.
When an unpreset signal is input for the first time, a memory number is displayed as 0. When you adjust the data of the signal in the Signal ⊞ menu, it will be registered to the projector. If more than 20 user memories are registered, the newest memory always overwrites the oldest one.
See the chart on page 71 to find if the signal is registered to the preset memory.

Note

When the aspect ratio of input signal does not match the screen size, a part of the screen is displayed in black.

Operating the Projector from a Computer

Accessing the Projector from a Computer

You can check the present status of the projector on a computer display and control the projector from a computer.
Confirm that the projector and computer are connected to the router/hub with the LAN cables, then turn on the projector, computer and router/hub.

1 Start Internet Explorer 5.0 (or later version) on your computer.

2 Type "http://xxx.xxx.xxx.xxx (the IP address of the projector)" as the "Address," then press the ENTER key on a keyboard.

You can check the IP address of the projector using the Installation ▶☐ menu. (☞ page 52)

Enter the IP address here.

Checking the Status of the Projector

Click "Information." You can check the information and present status of the projector on a computer display. You can check the information and status in the window, but you cannot change the setting.

Information
The present status of the projector is displayed.

Menu
The present settings of the projector are displayed.

Controlling the Projector from a Computer

Click "Control." You can perform various adjustments and settings of the projector on a computer display.
The functions of the buttons in the windows are the same as those on the remote control supplied with the projector.

Settings of the projector are lit.
After you have changed the settings on the projector, click "Refresh" at the upper right-hand corner of the window to update the status. The lighting buttons are changed.
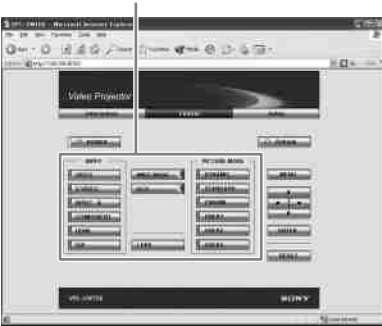
Setting up the Projector

Click "Setup." The Password Properties dialog box appears. The name of the "User" account is preset without a password to "root" at the factory. You can set the owner information, etc. Click "Apply" at the lower part of each window to update the projector to the data input in each window.

Owner and projector information

Click "OWNER INFORMATION."

Owner
Enter owner information.

Projector
Enter the location of the projector.

Memo
Enter a memo, if required.

Network settings

Click "NETWORK."

Internet Protocol (TCP/IP)
Normally, set "Obtain an IP address automatically (DHCP)." If you select "Specify an IP address," set the necessary items.

Setting passwords for "Administrator" and "User"

Click "Password." You can set passwords for each "Administrator" and "User." The name of the "Administrator" account is preset to "root" at the factory. It cannot be changed.

Advanced setting

Click "ADVANCED MENU" to display the Advertisement button, PJ Talk button and SNMP button. These settings are mainly for professional use. Detailed information on Advertisement button and PJ Talk button are indicated by the PROTOCOL manual.

Others

This section describes how to solve the problems, how to replace a lamp and air filter, etc.

Troubleshooting

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

Power

Symptom	Cause and Remedy
The power is not turned on.	→ Close the top cover and the lamp cover securely. (☞ page 63) → Reset the lamp release lever to its original position. (☞ page 65) → Close the filter holder securely. (☞ page 67) → Check warning indicators. (☞ page 60)

Picture

Symptom	Cause and Remedy
No picture.	→ Check that the proper connections have been made. (☞ page 18) → Select the input source correctly using the INPUT button. (☞ page 30) → Set the computer signal to output from an external monitor. → Set the computer signal to output only to an external monitor. → Select "Computer," "Component" or "Video GBR" for "Input-A Signal Sel." and "DVI Signal Sel." on the Setup 🖥 menu according to the input signal. (☞ page 53)
The picture from the IINPUT A connector is colored strange.	→ Select "Computer," "Component" or "Video GBR" for "Input-A Signal Sel." on the Setup 🖥 menu according to the input signal. (☞ page 53)
The picture from the DVI-D connector is colored strange.	→ Select "Computer," or "Video GBR" for "DVI Signal Sel." in the Setup 🖥 menu according to the input signal. (☞ page 53)
The picture from the VIDEO INPUT or S VIDEO INPUT connector is colored strange.	→ Adjust the picture in the "Adjust Picture" of the Picture 🖼 menu (☞ page 44) → Set "Color System" in the Setup 🖥 menu to match the color system being input. (☞ page 54)
The picture is too dark.	→ Adjust the contrast or brightness in the "Adjust Picture" of the Picture 🖼 menu properly. (☞ page 44)

The picture is not clear.	→ Adjust the focus. (☞ pages 25 and 31) → Condensation has accumulated on the lens. Leave the projector for about two hours with the power on.
The fan is noisy.	→ Check the setting of "High Altitude Mode" in the Installation ▶☐ menu. (☞ page 52)
The picture flickers.	→ Adjust "Dot Phase" for "Adjust Signal" in the Signal ➕ menu properly. (☞ page 47)

On-screen display

Symptom	Cause and Remedy
On-screen display does not appear.	→ Set "Status" in the Setup 🔧 menu to "On." (☞ page 53)

Remote control

Symptom	Cause and Remedy
The remote control does not work.	→ Batteries could be weak. Replace them with new batteries. (☞ page 12) → Insert the batteries with the correct polarities. (☞ page 12) → If there is a fluorescent lamp near the remote control detector, the projector may work improperly or inadvertently. Change the setting of "IR Receiver" in the Installation ▶☐ menu. (☞ page 51)

Warning Indicators

The LAMP/COVER or TEMP/FAN indicator lights up or flashes if there is any trouble with your projector.
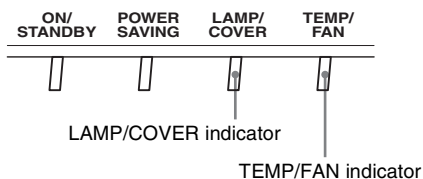
Symptom	Cause and Remedy
LAMP/COVER flashes.	→ Close the top cover and the lamp cover securely, or attach the filter holder securely. (☞ pages 63 and 67)
LAMP/COVER lights up.	→ The lamp has reached the end of its useful lifespan. Replace the lamp. (☞ page 63) → The lamp has reached a high temperature. Wait until the lamp cools, and then turn on the power again. (☞ page 32)
TEMP/FAN flashes.	→ The fan is broken. Consult with qualified Sony personnel.
TEMP/FAN lights up.	→ The internal temperature is unusually high. Check to ensure that if nothing is blocking the ventilation holes or whether or not the projector is being used at high altitudes.
LAMP/COVER and TEMP/FAN light up.	→ Disconnect the AC power cord, re-connect it, then turn on the power again. If the indicators still light up, the electrical system has a problem. Consult with qualified Sony personnel.

Others

Message Lists

Warning messages

Message	Cause and Remedy
High temp.! Lamp off in 1 min.	→ Turn off the power. → Check to ensure that nothing is blocking the ventilation holes. (☞ page 14)
Frequency is out of range!	→ Frequency is out of range. Input a signal that is within the acceptable frequency range of the projector.
Please check Input-A Signal Sel.	→ Set "Input-A Signal Sel." in the Setup 🛠 menu to "Computer" when an RGB signal is input from a computer. (☞ page 53)
Please check DVI Signal Sel.	→ Set "DVI Signal Sel." in the Setup 🛠 menu to "Computer" when an RGB signal is input from a computer. (☞ page 53) **Note** Be sure to remove the DVI cable to disconnect the connection between the projector and a digital tuner and so on, before setting "DVI Signal Sel."
Please replace the Lamp/Filter. Lamp/Filter life remains less than 50H.	→ The lifespan of the lamp and the air filter is running out. (50 hours is an approximate figure.)
Please replace the Lamp/Filter. Lamp/Filter life remains less than 15H.	→ The lifespan of the lamp and the air filter is running out. (15 hours is an approximate figure.)

Please replace the Lamp/ Filter. End of Lamp/Filter life. Lamp off in 1 min.	→ It is time to replace the lamp. Replace the lamp. (☞ page 63) → Also, replace the air filter too. (☞ page 67) If this message appears again after you replace the lamp and filter, the lamp replacement process is not complete. Check the lamp replacement process. (☞ page 63)
Please clean the filter.	→ It is time to clean the air filter. Clean the air filter. (☞ page 66)
Please clean the filter. Have you finished? Yes ▲ No ✚	→ It is time to clean the air filter. Clean the air filter. (☞ page 66) → If you cleaned the air filter, select "Yes." If you did not clean the air filter, select "No."
Probably use in high altitude. Switch to high altitude mode on? Yes ▲ No ✚	→ When using the projector at an altitude of 1,500 m or higher: select "Yes" to set to "High Altitude Mode". (☞ page 52) → If this message is displayed when using the projector at an altitude of less than 1,500 m: check to see if nothing is blocking the ventilation holes. (☞ page 14) **Note** When you selected "Yes," the number of turns of the fan increases.

Caution messages

Message	Cause and Remedy
x⤵	→ No signal is input in the selected input. Check connections. (☞ page 18)
Not applicable!	→ Press the appropriate button.
Please check Network Setting.	→ Invalid values, such as a blank, are entered in the Network Setting window. Enter the correct values. (☞ page 52)

Replacing the Lamp

The lamp used for the light source has a certain lifespan. When the lamp dims, the color balance of the picture becomes strange, or "Please replace the Lamp/Filter. End of Lamp/Filter life. Lamp off in 1 min." appears on the screen, the lamp may be exhausted. Replace the lamp with a new one (not supplied) without delay.
Use an LMP-H400 Projector Lamp as the replacement lamp.
The air filter is supplied with the LMP-H400 Projector Lamp. When you replace the lamp, it is also time to replace the air filter.
Whenever you replace the lamp, be sure to replace the air filter with a new one.
For detailed information on how to replace the filter, see "Replacing the Air Filter" on page 67.

When replacing the lamp after using the projector

Turn off the projector, then unplug the power cord. Wait for at least an hour for the lamp to cool.

Caution

- The lamp remains hot after the projector is turned off with the $I/\circlearrowleft$ key. If you touch the lamp, you may burn your fingers. When you replace the lamp, wait for at least an hour for the lamp to cool.
- Do not touch the surface of the lens. If you touch it, wipe off the fingerprints with a soft cloth.
- **Pay special attention to replacing the lamp when the projector is installed on the ceiling.**

1 Turn off the projector and unplug the AC power cord.

2 Place a protective sheet (cloth) beneath the projector.

   Note

   Be sure that the projector is placed on a stable surface.

3 While holding up the cover release lever on the right, slide the top cover until it stops.

Cover release lever
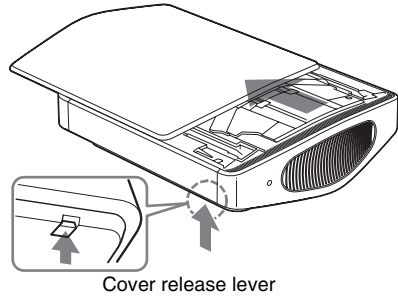
4 Loosen the screw on the lamp cover with a Philips screwdriver, and then open the lamp cover.
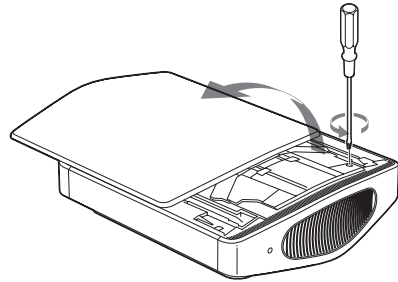
Note

Be sure to use a Philips screwdriver with a shaft length of 130 mm (5 ^{1}/8 inches) or more when replacing a projector lamp.

Others

5 **Remove the valve cap (①), then turn the gas releasing valve clockwise, using a Philips screwdriver (②).**
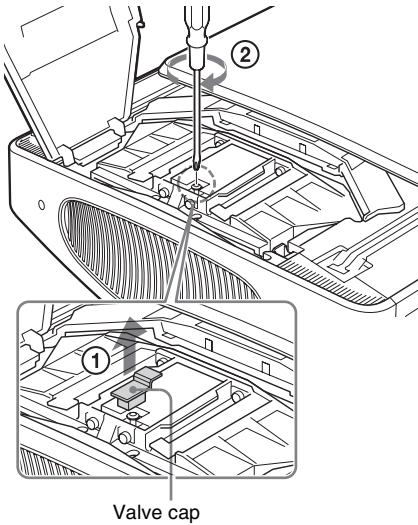
Valve cap

> **Note**
>
> Turn the gas releasing valve clockwise until a hissing sound comes out from the valve.
> After this hissing sound stops, go to the next step.
> Xenon gas is encapsulated under high pressure inside of the lamp. This xenon gas is odorless and harmless. However, if you drop the lamp or strike it without releasing gas, the lamp may burst. This may result in an injury.

6 **Loosen the four screws on the lamp unit with a Philips screwdriver.**
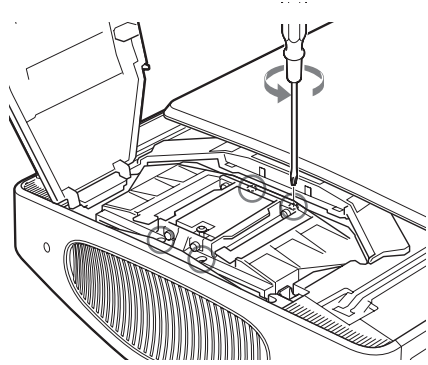
7 **Hold the lamp unit with your hand, and then, pushing the lamp release lever toward the arrow direction (toward the right), pull the lamp unit straight out.**

Lamp release lever
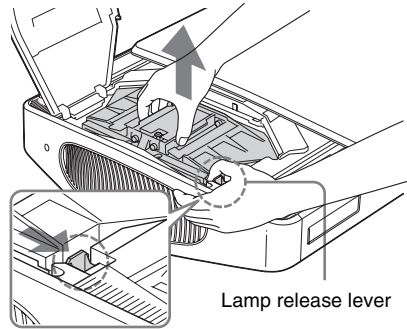
> **Note**
>
> Hold the lamp unit tightly so that you do not drop it, because it is heavy (approx. 2.9 kg (6 lb 6 oz)). Dropping the lamp may result in an injury or a breakdown of the projector.

8 Insert the new lamp unit straight in all the way until it is securely in place and you hear it click.
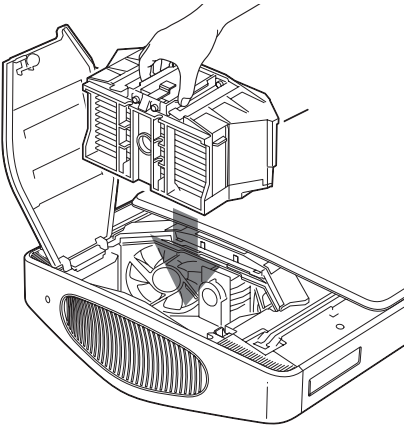
Notes
- Insert the new lamp unit while holding it tightly, because it is heavy (approx. 2.9 kg (6 lb 6 oz)). Dropping the lamp may result in an injury.
- Be careful not to touch the fan or optical block inside the unit.
- Confirm that the lamp release lever has returned to its original position. If not, the projector will not turn on.

9 Tighten the four screws loosened in step 6 to secure the lamp unit to the projector.
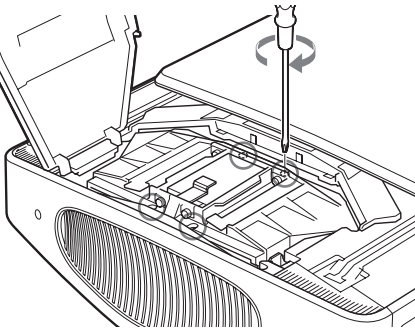
10 Tighten the screw loosened in step 4 to close the lamp cover.
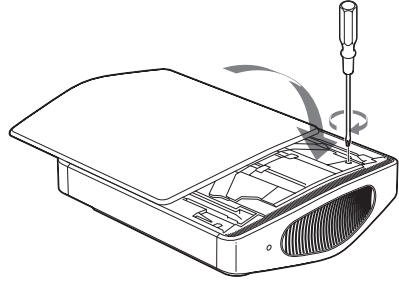
11 Close the top cover.
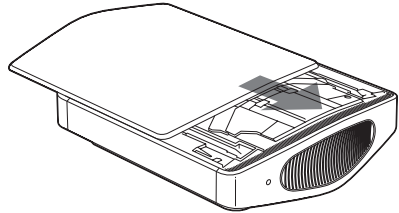
12 Connect the power cord and set the projector to standby mode.
Confirm that the ON/STANDBY indicator is lit in red.

13 Pointing the remote control at the projector, press the following buttons on the remote control in the following order for less than five seconds each: RESET, ←, →, ENTER.

Caution
Do not put your hands into the lamp replacement slot, and do not allow any liquid or other objects into the slot to avoid electrical shock or fire.

Notes
- Be sure to use an LMP-H400 Projector Lamp for replacement. If you use lamps other than the LMP-H400, the projector may malfunction.
- Be sure to turn off the projector and unplug the power cord before replacing the lamp.

Others

- The projector will not turn on unless the lamp is securely installed in place.
- The projector will not turn on unless the top cover and the lamp cover are securely closed.

Cleaning the Air Filter

When "Please clean the filter. Have you finished? Yes ♠ No ♦" appears on the screen, you should clean the air filter.
The air filter should be cleaned every 1250 hours. This value varies depending on the environment or how the projector is used. 1250 hours are approximate.

1 Turn the power off and unplug the power cord.

2 Place a protective sheet (cloth) beneath the projector and turn the projector over.

3 Remove the filter holder.
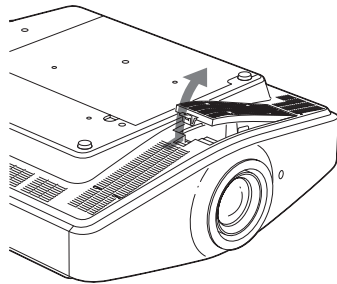
When the air filter cover (supplied) has been attached because the projector is installed on the ceiling, remove this air filter cover before removing the filter holder.
For detailed information on the air filter cover, see "To attach the supplied air filter cover for ceiling installation" (☞ page 76).

4 Remove dust with a vacuum cleaner.

Note

Be careful that the filter does not get caught in the vacuum cleaner.

When it becomes difficult to remove the dust from the filter with a vacuum cleaner, go to the next step.

5   Remove the air filter.
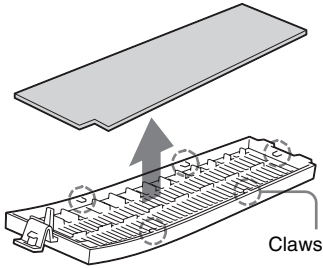
Claws

6   Wash the air filter with a mild detergent solution and dry it in a shaded place.

7   Attach the air filter so that it fits into the each claws (5 positions) on the filter holder.

8   Attach the filter holder.

| Note |

The projector will not turn on unless the filter holder is securely closed.

Replacing the Air Filter

The air filter should be replaced periodically. When "Please replace the Lamp/Filter. End of Lamp/Filter life. Lamp off in 1 min." appears on the screen, it is time to replace the lamp and the air filter, Whenever you replace the lamp, be sure to replace the air filter with a new one immediately.

| Notes |

• Replacing the air filter is very important to maintain the high efficiency of the projector and to prevent a malfunction. When the replacement message appears on the screen, replace the air filter without delay. Also the air filter should be cleaned every 1250 hours.
• When removing the air filter from the projector, be careful that no dust or object gets into the inside of the projector.

1   Turn the power off and unplug the power cord.

2   Place a protective sheet (cloth) beneath the projector and turn the projector over.

3   Remove the filter holder.
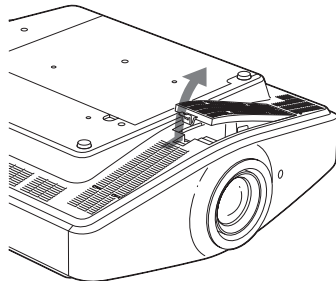
When the air filter cover (supplied) has been attached because the projector is installed on the ceiling, remove this air filter cover before removing the filter holder.
For detailed information on the dust protector, see "To attach the supplied air

Others

filter cover for ceiling installation" (☞ page 76).

4 **Remove the air filter.**
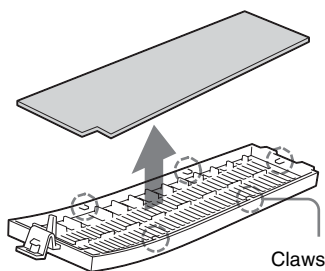
Claws

5 **Attach the new air filter so that it fits into the each claws (5 positions) on the filter holder.**

6 **Attach the filter holder.**

Note

The projector will not turn on unless the filter holder is securely closed.

Specifications

System

Projection system
　　　　　SXRD panel, 1 lens, projection
　　　　　system
LCD panel　0.61-inch SXRD panel with
　　　　　micro-lens array, 6,220,800
　　　　　pixels (2,073,600 pixels × 3)
Lens　　　1.8 times zoom lens (electric)
　　　　　f18.7 to 33.7 mm/F2.54 to 3.53
Lamp　　　400 W xenon lamp
Projection picture size
　　　　　40 to 300 inches (measured
　　　　　diagonally)
Color system　NTSC$_{3.58}$/PAL/SECAM/NTSC$_{4.43}$/
　　　　　PAL-M/PAL-N/PAL60 system,
　　　　　switched automatically/
　　　　　manually (PAL60 system not
　　　　　switched manually)
Acceptable video signals
　　　　　15 kHz RGB/component 50/60
　　　　　Hz, Progressive component 50/
　　　　　60 Hz, DTV (480/60i, 575/50i,
　　　　　480/60p, 575/50p, 720/60p,
　　　　　720/50p, 1080/60i, 1080/50i),
　　　　　1080/60p (DVI channel and
　　　　　HDMI channel only), 1080/50p
　　　　　(DVI channel and HDMI
　　　　　channel only), Composite
　　　　　video, Y/C video
Acceptable computer signals
　　　　　fH: 19 to 72 kHz
　　　　　fV: 48 to 92 Hz
　　　　　Maximum resolution 1920× 1080,
　　　　　fV: 60 Hz

Input

Video input　VIDEO: phono type
　　　　　Composite video: 1 Vp-p±2 dB
　　　　　sync negative (75 ohms
　　　　　terminated)
　　　　　S VIDEO: Y/C mini DIN 4-pin
　　　　　type
　　　　　Y (luminance): 1 Vp-p±2 dB
　　　　　sync negative (75 ohms
　　　　　terminated)
　　　　　C (chrominance): burst 0.286
　　　　　Vp-p ±2 dB (NTSC)
　　　　　(75 ohms terminated), or
　　　　　burst 0.3 Vp-p±2 dB (PAL)
　　　　　(75 ohms terminated)
Y/C$_B$/P$_B$/C$_R$/P$_R$
　　　　　Component: phono type

Y with Sync: 1 Vp-p±2dB sync
negative (75 ohms terminated)
C$_B$/P$_B$: 0.7 Vp-p±2dB (75 ohms
terminated)
C$_R$/P$_R$: 0.7 Vp-p±2 dB (75 ohms
terminated)
HDMI　　　Digital RGB/Y/C$_B$(P$_B$)C$_R$(P$_R$)
DVI-D (TMDS)
　　　　　Digital RGB
INPUT A　HD D-sub 15-pins
　　　　　Analog RGB/component:
　　　　　　R/C$_R$ (P$_R$): 0.7 Vp-p±2 dB
　　　　　　(75 ohms terminated)
　　　　　　G: 0.7 Vp-p±2 dB
　　　　　　(75 ohms terminated)
　　　　　　G with sync/Y: 1 Vp-p±2 dB
　　　　　　sync negative (75 ohms
　　　　　　terminated)
　　　　　　B/C$_B$ (P$_B$): 0.7 Vp-p±2 dB
　　　　　　(75 ohms terminated)
　　　　　　SYNC/HD: Composite sync
　　　　　　input: TTL level, positive/
　　　　　　negative
　　　　　　Horizontal sync input: TTL
　　　　　　level, positive/negative
　　　　　　VD: Vertical sync input: TTL
　　　　　　level, positive/ negative
TRIGGER　Minijack
　　　　　Power on: DC 12 V, output
　　　　　impedance: 4.7 kilohms
　　　　　Power off: 0 V
REMOTE　RS-232C: D-sub 9-pin (female)
NETWORK　RJ-45
　　　　　10BASE-T/100BASE-TX

General

Dimensions　496 × 175 × 574 mm
　　　　　(19 $^1/_2$ × 6 $^7/_8$ × 22 $^5/_8$ inches) (w/
　　　　　h/d)
Mass　　　Approx. 19 kg (41 lb 14 oz)
Power requirements
　　　　　AC 100 to 240 V, 0.8 to 1.95 A,
　　　　　50/60 Hz
Power consumption
　　　　　Max. 610 W
　　　　　Standby mode: 10 W
　　　　　ECO mode: 0.5 W
Operating temperature
　　　　　0°C to 35°C (32°F to 95°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 control RM-PJVW100 (1)
       Size AA (R6) batteries (2)
       AC power cord (1)
       Plug holder (1)
       Operating Instructions (1)
       CD-ROM (ImageDirector2) (1)
       Air filter cover (1)

Design and specifications are subject to change
without notice.

Safe regulations
UL60950, CSA No. 950, FCC class B, IC class B,
EN60950 (NEMKO), CE, C-Tick

Optional accessories

Projector Lamp LMP-H400 (for replacement)
Projector Suspension Support PSS-H10, PSS-610

Warning on power connection

Use a proper power cord for your local power supply.

	The United States, Canada		Continental Europe		UK, Ireland, Australia, New Zealand	Japan
Plug type	VM0233	YP-3	YP-12A	COX-07	*	YP-359
Female end	VM0089	YC-13	YC-13D	COX-02	VM0303B	YC-13
Cord type	SVT	SVT	H05VV-F	H05VV-F	CEE (13) 53 rd (OC)	VCTF
Rated Voltage & Current	10A/ 125V	10A/ 125V	10A/250V	10A/250V	10A/250V	12A/125V
Safety approval	UL/CSA	UL/CSA	VDE	VDE	VDE	DENANHO

* Use a rated plug that complies with the regulation of each country/region and the specifications.

Preset Signals

The following table shows the signals and video formats which you can project using this unit.
When a signal other than the preset signal shown below is input, the picture may not be displayed properly.

Memory No.	Preset signal		fH (kHz)	fV (Hz)	Sync	H Size
1	VIDEO/60	60 Hz	15.734	59.940	–	–
2	VIDEO/50	50 Hz	15.625	50.000	–	–
3	480/60i	DTV 480/60i	15.734	59.940	SonG/Y or composite sync	–
4	575/50i	DTV 575/50i	15.625	50.000	SonG/Y or composite sync/composite video	–
5	480/60p	480/60p (Progressive NTSC)	31.470	60.000	SonG/Y	–
6	575/50p	575/50p (Progressive PAL)	31.250	50.000	SonG/Y	–
7	1080/60i	1035/60i, 1080/60i	33.750	60.000	SonG/Y	–
8	1080/50i	1080/50i	28.130	50.000	SonG/Y	–
9	1080/24PsF	1080/48i	27.000	48.000	SonG/Y	–
10	720/60p	720/60p	45.000	60.000	SonG/Y	–
11	720/50p	720/50p	37.500	50.000	SonG/Y	–
12	1080/60p	1080/60p	67.500	60.000	–	–

Others

Memory No.	Preset signal		fH (kHz)	fV (Hz)	Sync	H Size
13	1080/50p	1080/50p	56.260	50.000	–	–
21	640 × 350	VGA-1 (VGA350)	31.469	70.086	H-pos, V-neg	800
22		VESA 85 (VGA350)	37.861	85.080	H-pos, V-neg	832
23	640 × 400	NEC PC98	24.823	56.416	H-neg V-neg	848
24		VGA-2 (TEXT)/ VESA70	31.469	70.086	H-neg V-pos	800
25		VESA 85 (VGA400)	37.861	85.080	H-neg, V-pos	832
26	640 × 480	VESA 60	31.469	59.940	H-neg, V-neg	800
27		Mac 13	35.000	66.667	H-neg, V-neg	864
28		VESA 72	37.861	72.809	H-neg, V-neg	832
29		VESA 75 (IBM M3)	37.500	75.000	H-neg, V-neg	840
30		VESA 85 (IBM M4)	43.269	85.008	H-neg, V-neg	832
31	800 × 600	VESA 56	35.156	56.250	H-pos, V-pos	1024
32		VESA 60	37.879	60.317	H-pos, V-pos	1056
33		VESA 72	48.077	72.188	H-pos, V-pos	1040
34		VESA 75 (IBM M5)	46.875	75.000	H-pos, V-pos	1056
35		VESA 85	53.674	85.061	H-pos, V-pos	1048
36	832 × 624	Mac 16	49.724	74.550	H-neg, V-neg	1152
37	1024 × 768	VESA 60	48.363	60.004	H-neg, V-neg	1344
38		VESA 70	56.476	70.069	H-neg, V-neg	1328
39		VESA 75	60.023	75.029	H-pos, V-pos	1312
40		VESA 85	68.677	84.997	H-pos, V-pos	1376
41	1152 × 864	VESA 70	63.995	70.019	H-pos, V-pos	1472
42		VESA 75	67.500	75.000	H-pos, V-pos	1600
44	1152 × 900	SUN L0	61.795	65.960	H-neg, V-neg	1504
45	1280 × 960	VESA 60	60.000	60.000	H-pos, V-pos	1800
47	1280 × 1024	VESA 60	63.974	60.013	H-pos, V-pos	1696
50	1400 × 1050	SXGA +	63.981	60.020	H-neg, V-neg	1688
55	1280 × 768	1280 × 768/60	47.776	59.870	H-neg, V-pos	1664
56	1280 × 720	1280 × 720/60	44.772	59.855	H-neg, V-pos	1664
57	1920 × 1080	1920 × 1080/60	67.500	60.000	H-neg, V-neg	2200

The preset memory number 44 is available when DDC is set to off on the computer. However, the screen resolution of the projector may not be supported, or it is possible that DDC cannot be turned off, depending on the computer. For details, refer to the operating instructions supplied with your computer.

DDC (Display Data Channel) allows the computer to obtain information about features from the monitor. It also allows output of the most appropriate refresh value automatically, based on the resolution of the monitor.

Note

When a signal other than the preset signals shown above is input, the picture may not appear properly.

Preset memory numbers for each input signal

Analog signal

Signal	Preset memory number
Video signal (VIDEO INPUT and S VIDEO INPUT connectors)	1, 2
Component signal (INPUT A and Y/C$_B$/P$_B$/C$_R$/P$_R$ connectors)	3 to 11
Video GBR signal (INPUT A connector)	3 to 11
Computer signal (INPUT A connector)	21 to 39, 56

Digital signal

Signal	Preset memory number
Component signal (HDMI connector)	3 to 8, 10 to 13
Video GBR signal (DVI-D and HDMI connectors)	3 to 8, 10 to 13
Computer signal (DVI-D connector)	21 to 42, 44, 45, 47, 50, 55 to 57
Computer signal (HDMI connector)	26

Others

Input Signals and Adjustable/Setting Items

Some of the items in the menus cannot be adjusted depending on the input signal. The following tables indicate them.

The items that cannot be adjusted are not displayed in the menu.

Adjust Picture menu

Item	Input signal			
	Video or S-Video (Y/C)	Component	Video GBR	Computer
Contrast	●	●	●	●
Brightness	●	●	●	●
Color	● (except for B & W)	●	●	–
Hue	● (NTSC$_{3.58}$/ NTSC$_{4.43}$ only, except for B & W)	●	●	–
Sharpness	●	●	●	–
NR	●	● (preset memory numbers 3, 4, 7, 8, 9 only)	● (preset memory numbers 3, 4, 7, 8, 9 only)	–
Black Level Adj.	●	●	●	–
Gamma Correction	●	●	●	●
Color Temp.	●	●	●	●
Advanced Iris	●	●	●	●
RCP	●	●	●	●
Color Space	●	●	●	●

● : Adjustable/can be set

– : Not adjustable/cannot be set

Signal menu

Item	Input signal			
	Video or S-Video (Y/C)	**Component**	**Video GBR**	**Computer**
Dot Phase	–	–	–	● *[1]
H Size	–	–	–	● *[1]
Shift	–	●	●	● *[1]
Wide Mode	●	● (preset memory numbers 3, 4, 5, 6 only)	● (preset memory numbers 3, 4, 5, 6 only)	–
DRC Mode	●	● (preset memory numbers 3,4,7,8,9 only)	● (preset memory numbers 3,4,7,8,9 only)	–
Film Mode *[2]	●	● (preset memory numbers 3,4,7,8,9 only)	● (preset memory numbers 3,4,7,8,9 only)	–
Over Scan	–	●	●	–
Screen Area *[3]	–	● (preset memory numbers 7, 8, 9, 12, 13 only)	● (preset memory numbers 7, 8, 9, 12, 13 only)	–

● : Adjustable/can be set

– : Not adjustable/cannot be set

*1: You cannot adjust this item when a DVI signal is input.

*2: In case of memory preset number 4, you can set this item only when "DRC Mode" is set to "Off" in the Signal 🔲 menu.

*3: This item is effective only when "Over Scan" is set to "On" in the Signal 🔲 menu.

Ceiling Installation

Use the PSS-H10 or PSS-610 Projector Suspension Support when you install the projector on a ceiling. The projection distances for ceiling installation are shown below.

To attach the supplied air filter cover for ceiling installation

When you install the projector on the ceiling using the PSS-H10 or PSS-610 Projector Suspension Support, attach the supplied air filter cover for the ventilation holes (intake) to prevent the air filter from becoming clogged with dust.

Air filter cover

Attach the air filter cover with the ∇ mark on the air filter cover facing to the front.
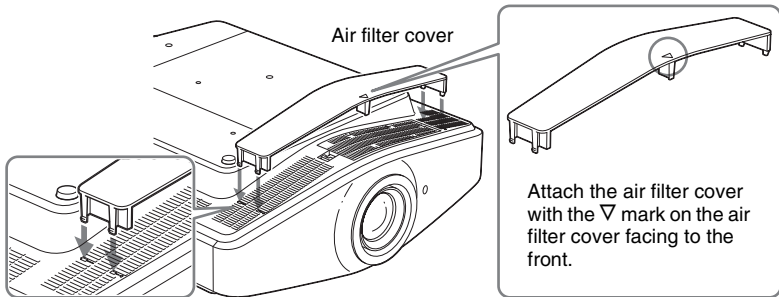

Note

When you use the projector placed on a floor, do not attach the air filter cover. If you attach it, the air filter cover may get broken.

When Using the PSS-H10 Projector Suspension Support

a: Distance between the screen and the installation hole at the
ceiling side of the ceiling mount unit (front side)
x: Distance between the ceiling and the center of the screen such
that the picture will not be truncated or blocked
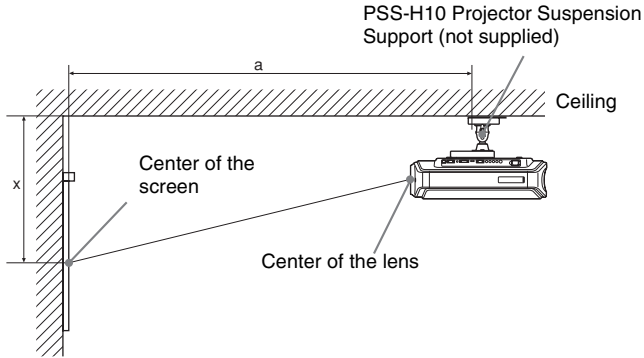
When using the 16:9 aspect ratio screen

Unit: mm (inches)

Screen Size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum Distance	1475 (58 $^1/_8$)	2105 (83)	2735 (107 $^3/_4$)	3365 (132 $^1/_2$)	3995 (157 $^3/_8$)	4940 (196 $^1/_8$)	5885 (231 $^3/_8$)	6515 (256 $^5/_8$)	8090 (318 $^5/_8$)	9665 (380 $^5/_8$)
	Maximum Distance	2368 (93 $^1/_4$)	3444 (135 $^5/_8$)	4520 (178)	5596 (220 $^3/_4$)	6672 (262 $^3/_4$)	8286 (326 $^3/_8$)	9900 (389 $^7/_8$)	10976 (432 $^1/_4$)	13666 (538 $^1/_8$)	16356 (644 $^1/_8$)
x	Minimum Distance	249 (9 $^7/_8$)	374 (14 $^3/_4$)	498 (19 $^5/_8$)	623 (24 $^5/_8$)	747 (29 $^5/_8$)	934 (36 $^7/_8$)	1121 (44 $^1/_4$)	1245 (49 $^1/_8$)	1557 (61 $^3/_8$)	1868 (73 $^5/_8$)
	Maximum Distance	590 (23 $^1/_4$)	751 (29 $^5/_8$)	913 (36)	1075 (42 $^3/_8$)	1237 (48 $^3/_4$)	1479 (58 $^1/_4$)	1722 (67 $^7/_8$)	1884 (74 $^1/_4$)	2288 (90 $^1/_8$)	2692 (106)

To calculate the installation measurements (SS: Screen Size)
a (minimum) = 31.5 (1 $^1/_4$) × SS + 214.8 (8 $^1/_2$)
a (maximum) = 53.8 (2 $^1/_8$) × SS + 216.1 (8 $^5/_8$)
x (minimum) = 6.2263 ($^1/_4$) × SS
x (maximum) = 8.0876 ($^{11}/_{32}$) × SS + 266 (10 $^1/_2$)

When using the 4:3 aspect ratio screen

Unit: mm (inches)

Screen Size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum Distance	1757 (69 $^1/_4$)	2528 (99 $^5/_8$)	3299 (130)	4070 (160 $^3/_8$)	4841 (190 $^5/_8$)	5997 (236 $^1/_4$)	7154 (281 $^3/_4$)	7925 (312 $^1/_8$)	9853 (388)	11780 (463 $^7/_8$)
	Maximum Distance	2850 (112 $^1/_4$)	4167 (164 $^1/_8$)	5483 (216)	6800 (267 $^3/_4$)	8117 (319 $^5/_8$)	10092 (397 $^3/_8$)	12068 (475 $^1/_4$)	13385 (527 $^1/_8$)	16677 (656 $^3/_4$)	19969 (786 $^3/_8$)

Screen Size (inches)		40	60	80	100	120	150	180	200	250	300
x	Minimum Distance	305 (12 ^{1}/$_8$)	457 (18)	610 (24 ^{1}/$_8$)	762 (30)	914 (36)	1143 (45)	1372 (54 ^{1}/$_8$)	1524 (60)	1905 (75 ^{1}/$_8$)	2286 (90 ^{1}/$_8$)
	Maximum Distance	662 (26 ^{1}/$_8$)	860 (33 ^{7}/$_8$)	1058 (41 ^{3}/$_4$)	1256 (49 ^{1}/$_2$)	1454 (57 ^{1}/$_4$)	1751 (69)	2048 (80 ^{1}/$_{16}$)	2246 (88 ^{1}/$_2$)	2740 (108)	3235 (127 ^{1}/$_2$)

To calculate the installation measurements (SS: Screen Size)

a (minimum) = 38.551 (1 ^{9}/$_{16}$) × SS + 214.8 (8 ^{1}/$_2$)

a (maximum) = 65.842 (2 ^{5}/$_8$) × SS + 216.1 (8 ^{5}/$_8$)

x (minimum) = 7.62 (^{5}/$_{16}$) × SS

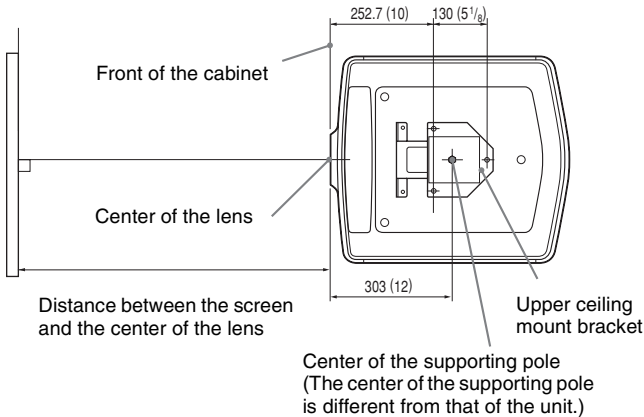x (maximum) = 9.8979 (^{13}/$_{32}$) × SS + 266 (10 ^{1}/$_2$)

Attaching the PSS-H10 projector suspension support

For details on installation on a ceiling, refer to the Installation manual for Dealers of the PSS-H10. Make sure to consult with a qualified Sony personnel for installation.
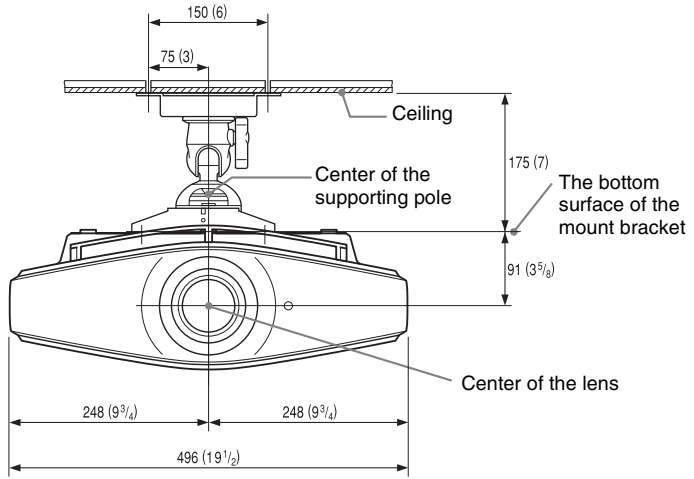
The installation measurements are shown below when installing the projector on a ceiling using the PSS-H10.
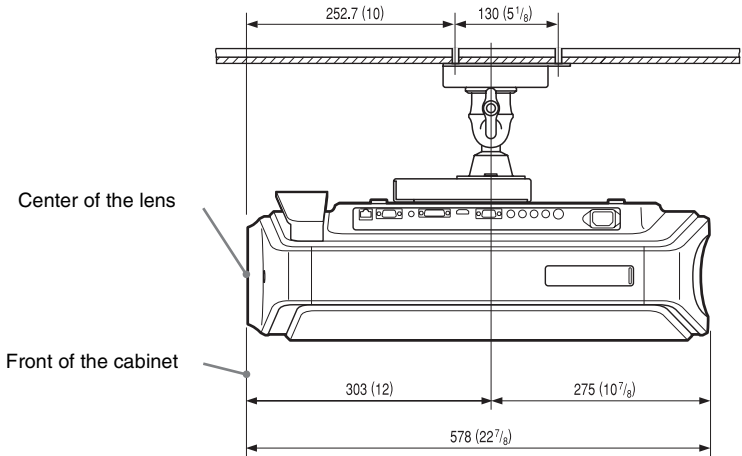
Top view

Install the projector so that the center of the lens is parallel to the center of the screen.

252.7 (10) 130 (5^1/$_8$)

Front of the cabinet

Center of the lens

Distance between the screen and the center of the lens

303 (12)

Upper ceiling mount bracket

Center of the supporting pole (The center of the supporting pole is different from that of the unit.)

Front view

150 (6)

75 (3)

Ceiling

175 (7)

Center of the
supporting pole

The bottom
surface of the
mount bracket

91 (3⁵/₈)

Center of the lens

248 (9³/₄)

248 (9³/₄)

496 (19¹/₂)

Side view

252.7 (10)

130 (5¹/₈)

Center of the lens
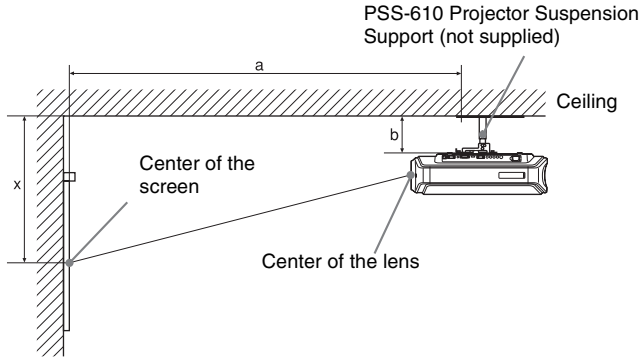
Front of the cabinet

303 (12)

275 (10⁷/₈)

578 (22⁷/₈)

When Using the PSS-610 Projector Suspension Support

a: Distance between the screen and the installation hole of the upper ceiling mount bracket (front side)
b: Distance from the ceiling to the bottom surface of the unit
x: Distance between the ceiling and the center of the screen such that the picture will not be truncated or blocked

When using the 16:9 aspect ratio screen

Unit: mm (inches)

Screen Size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum Distance	1429 (56 3/8)	2059 (81 1/8)	2689 (106)	3319 (130 3/4)	3949 (155 1/2)	4894 (192 3/4)	5839 (230)	6469 (254 3/4)	8044 (316 3/4)	9619 (378 3/4)
	Maximum Distance	2322 (91 1/2)	3398 (133 7/8)	4474 (176 1/4)	5550 (218 5/8)	6626 (261)	8240 (324 1/2)	9854 (388)	10930 (420 3/8)	13620 (536 3/8)	16310 (642 1/2)
x	Minimum Distance	249 (9 7/8)	374 (14 3/4)	498 (19 5/8)	623 (24 5/8)	747 (29 5/8)	934 (36 7/8)	1121 (44 1/4)	1245 (49 1/8)	1557 (61)	1868 (73 7/8)
	Maximum Distance	b+415 (b+16 3/8)	b+576 (b+22 3/4)	b+738 (b+29 1/8)	b+900 (b+35 1/2)	b+1062 (b+41 7/8)	b+1304 (b+51 3/8)	b+1547 (b+60)	b+1709 (b+67 3/8)	b+2113 (b+83 1/4)	b+2517 (b+99 1/8)
b		150, 175, 200, 250, 275, 300 mm (6, 7, 7 7/8, 9 7/8, 10 7/8, 11 7/8 inches) adjustable when using PSS-610									

To calculate the installation measurements (SS: Screen Size)
a (minimum) = 31.5 (1 1/4) × SS + 168.8 (6 3/4)
a (maximum) = 53.8 (2 1/8) × SS + 170.1 (6 3/4)
x (minimum) = 6.2263 (1/4) × SS
x (maximum) = 8.0876 (11/32) × SS + 91 (3 5/8) + b

When using the 4:3 aspect ratio screen

Unit: mm (inches)

Screen Size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum Distance	1711 (67 3/8)	2482 (97 3/4)	3253 (128 1/8)	4024 (158 15/32)	4795 (188 7/8)	5951 (234 3/8)	7108 (280)	7879 (310 1/4)	9807 (386 1/4)	11734 (462 1/8)
	Maximum Distance	2804 (110 1/2)	4121 (162 3/8)	5437 (214 1/8)	6754 (266)	8071 (317 7/8)	10046 (395 9/16)	12022 (474 3/8)	13339 (525 1/8)	16461 (648 1/4)	19923 (784 1/2)

Screen Size (inches)	40	60	80	100	120	150	180	200	250	300
x Minimum Distance	305 (12 $\frac{1}{8}$)	457 (18)	610 (24 $\frac{1}{8}$)	762 (30)	914 (36)	1143 (45)	1372 (54 $\frac{1}{8}$)	1524 (60)	1905 (74 $\frac{7}{8}$)	2286 (90 $\frac{1}{8}$)
Maximum Distance	b+487 (b+19 $\frac{1}{4}$)	b+685 (b+27)	b+883 (b+34 $\frac{7}{8}$)	b+1081 (b+42 $\frac{5}{8}$)	b+1279 (b+50 $\frac{3}{8}$)	b+1576 (b+62 $\frac{1}{8}$)	b+1873 (b+73 $\frac{3}{4}$)	b+2071 (b+81 $\frac{5}{8}$)	b+2565 (b+101)	b+3060 (b+120 $\frac{1}{2}$)
b	150, 175, 200, 250, 275, 300 mm (6, 7, 7 $\frac{7}{8}$, 9 $\frac{7}{8}$, 10 $\frac{7}{8}$, 11 $\frac{7}{8}$ inches) adjustable when using PSS-610									

To calculate the installation measurements (SS: Screen Size)

a (minimum) = 38.551 (1 $\frac{9}{16}$) × SS + 168.8 (6 $\frac{3}{4}$)

a (maximum) = 65.842 (2 $\frac{5}{8}$) × SS + 170.1 (6 $\frac{3}{4}$)

x (minimum) = 7.62 ($\frac{5}{16}$) × SS

x (maximum) = 9.8979 ($\frac{13}{32}$) × SS + 91 (3 $\frac{5}{8}$) + b

Attaching the PSS-610 projector suspension support

For details on installation on a ceiling, refer to the Installation manual for Dealers of the PSS-610. Make sure to consult with a qualified Sony personnel for installation.

The installation measurements are shown below when installing the projector on a ceiling using the PSS-610.

Top view

Install the projector so that the center of the lens is parallel to the center of the screen.

216 (8 $\frac{5}{8}$) 216.5 (8 $\frac{5}{8}$)

Front of the cabinet

Center of the lens

Distance between the screen and the center of the lens

288 (11 $\frac{3}{8}$)

Upper ceiling mount bracket

Center of the supporting pole
(The center of the supporting pole is different from that of the unit.)
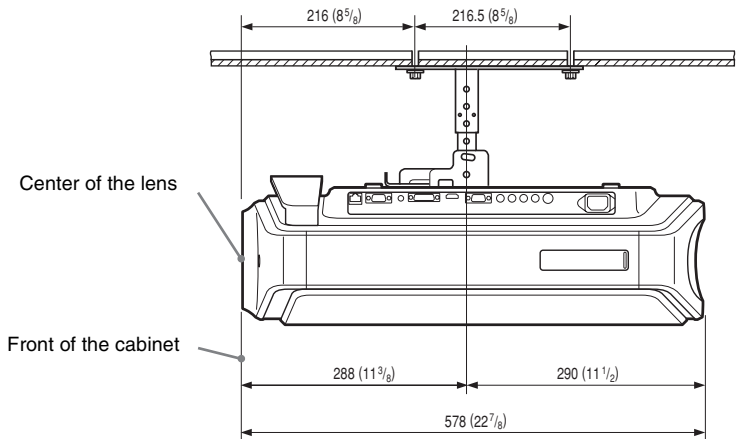
Others
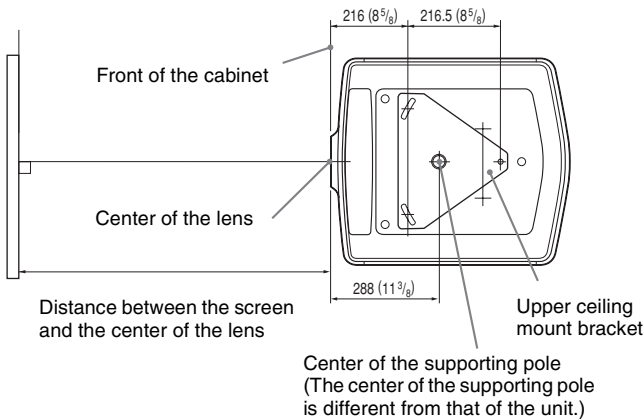
Front view

Distance between the ceiling and the surface of the mount bracket
Using adjustment pipe (b): 150/175/200 mm (6 / 7 / 7 $^7/_8$ inches)
Using adjustment pipe (c): 250/275/300 mm (9 $^7/_8$ / 10 $^7/_8$ / 11 $^7/_8$ inches)

250 ($9^7/_8$)

125 (5)

Ceiling

Center of the
supporting pole

The bottom
surface of the
mount bracket

91 ($3^5/_8$)

Center of the lens

248 ($9^3/_4$) 248 ($9^3/_4$)

496 ($19^1/_2$)

Side view

216 ($8^5/_8$) 216.5 ($8^5/_8$)

Center of the lens

Front of the cabinet

288 ($11^3/_8$) 290 ($11^1/_2$)

578 ($22^7/_8$)
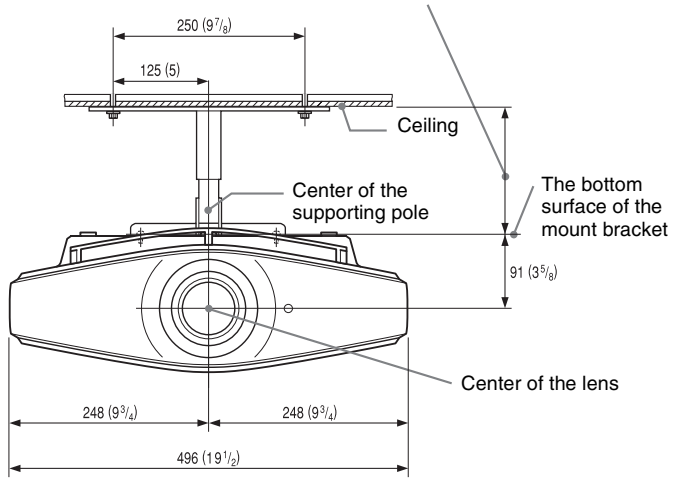
Making Fine Adjustments to the Horizontal Picture Position

Note

For details on how to make fine adjustments of the horizontal picture position, consult with qualified personnel. When the lens is scratched, there is a charge for repair. Also, do not look into the lens while you are adjusting the picture position.

You can adjust the lens position right or left by about 1 mm from the center of the lens.

1 **Remove the ring (washer) attached around the lens by turning it counterclockwise.**
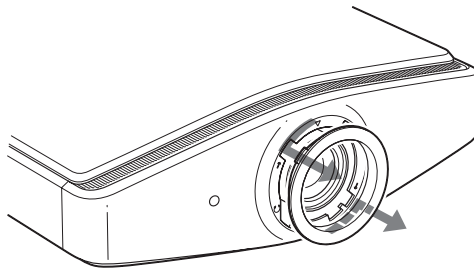
2 **Loosen the four screws located at the position indicated with an arrow by turning them counterclockwise with a Philips screwdriver.**

Others
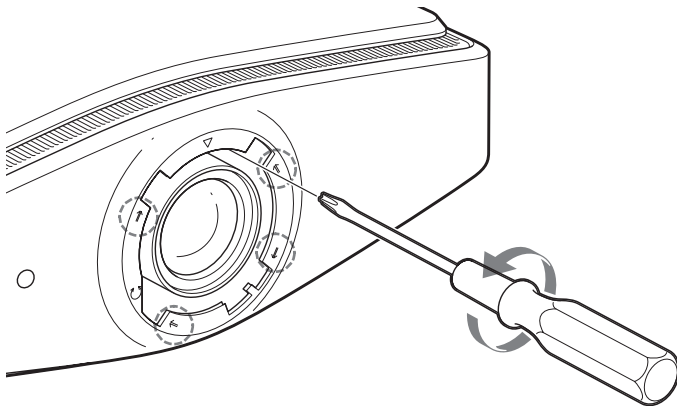
3 **Insert a flat-blade screwdriver into the lens adjustment groove located at the left bottom (when the projector projects the image when placed on the floor, on a desk, etc.), and turn it in the direction in which you want to move the lens.**

If you turn it to the left, the lens moves to the left, and if you turn it to the right, the lens moves to the right. (The range of movement is approximately ± 1mm.)

1H

Top view

Picture position when moving the picture the maximum distance to the left.

Picture position when moving the picture the maximum distance to the right.
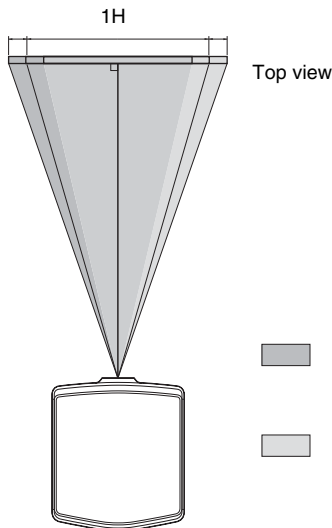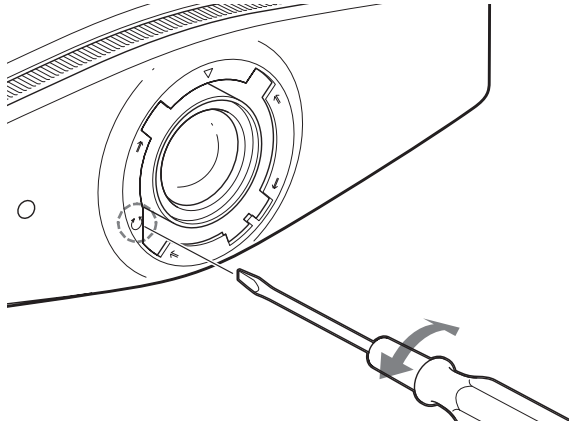
4 **After you have decided the lens position, insert the Philips screwdriver at the locations of the four screws around the border of the lens in turn and tighten them to fix the lens in place.**
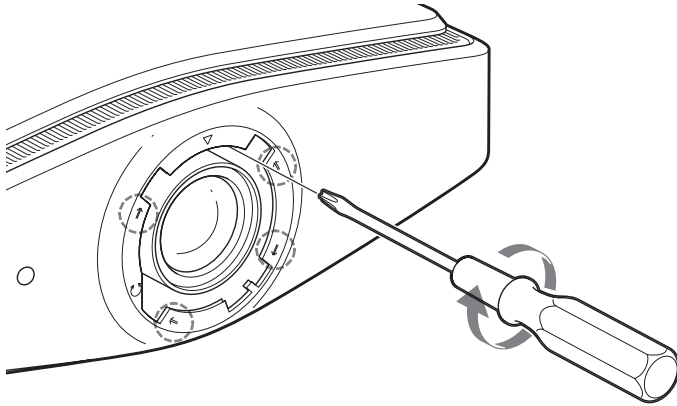
5 **Attach the ring (washer) aligning the ▽ mark on the inside of the ring with the ▽ mark on the projector by turning it clockwise.**
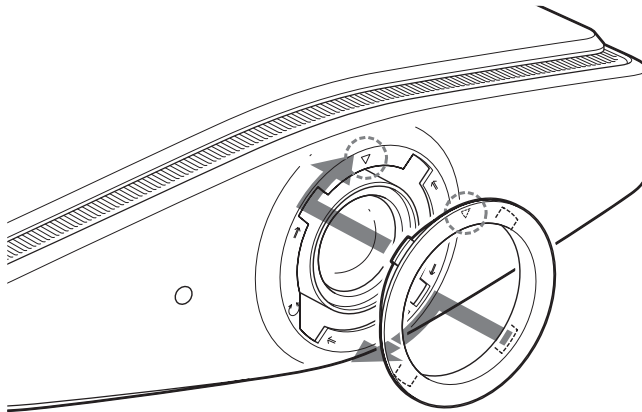
<div class="note">Note</div>

When you use the horizontal and vertical lens shift features at the same time and adjust the horizontal lens shift to the maximum, the picture moves up by a maximum of 0.53 of the screen size from the center of the lens.

Index

Others