

SONY®

Data Projector

Operating Instructions

VPL-GH10

SXRD
Silicon X-tal Reflective Display

ProSelecta

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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.

THIS APPARATUS MUST BE EARTHED.

For the customers in the U.S.A.

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

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

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

WARNING:

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

When installing the installation space must be secured in consideration of the ventilation and service operation.

- Do not block the ventilation slots at the left side and right side panels, and vents of the fans.
- Leave a space around the unit for ventilation.
- Leave more than 30 cm of space in the rear of the unit to secure the operation area.

When the unit is installed on the desk or the like, leave at least 30 cm of space in the left and right sides. Leaving 30 cm or more of space above the unit is recommended for service operation.

WARNING

When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

For the customers in Europe

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan.

The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

This apparatus shall not be used in the residential area.

For the customers in Europe, Australia and New Zealand

WARNING

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

For kundene i Norge

Dette utstyret kan kobles til et IT-strømfordelingssystem.

For the customers in Taiwan only



廢電池請回收

For the Customers in Brazil only

DESCARTE DE PILHAS E BATERIAS

Após o uso, as pilhas e/ou baterias poderão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.



Bateria Primária

Atenção:

Verifique as instruções de uso do aparelho certificando-se de que as polaridades (+) e (-) estão no sentido indicado. As pilhas poderão vazar ou explodir se as polaridades forem invertidas, expostas ao fogo, desmontadas ou recarregadas.

Evite misturar com pilhas de outro tipo ou com pilhas usadas, transportá-las ou armazená-las soltas, pois aumenta o risco de vazamento

Retire as pilhas caso o aparelho não esteja sendo utilizado, para evitar possíveis danos na eventualidade de ocorrer vazamento.

As pilhas devem ser armazenadas em local seco e ventilado.

No caso de vazamento da pilha, evite o contato com a mesma. Lave qualquer parte

do corpo afetado com água abundante. Ocorrendo irritação, procure auxílio médico. Não remova o invólucro da pilha. Mantenha fora do alcance das crianças. Em caso de ingestão procure auxílio médico imediatamente.

WARNUNG

Um die Gefahr von Bränden oder elektrischen Schlägen zu verringern, darf dieses Gerät nicht Regen oder Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur qualifiziertem Fachpersonal.

DIESES GERÄT MUSS GEERDET WERDEN.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien. Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen. Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

WARNUNG

Beim Einbau des Geräts ist daher im Festkabel ein leicht zugänglicher Unterbrecher einzufügen, oder der Netzstecker muss mit einer in der Nähe des Geräts befindlichen, leicht zugänglichen Wandsteckdose verbunden werden. Wenn während des Betriebs eine Funktionsstörung auftritt, ist der Unterbrecher zu betätigen bzw. der Netzstecker abzuziehen, damit die Stromversorgung zum Gerät unterbrochen wird.

VORSICHT

Aus Sicherheitsgründen nicht mit einem Peripheriegerät-Anschluss verbinden, der zu starke Spannung für den Anschluss NETWORK haben könnte. Folgen Sie den Anweisungen für den Anschluss NETWORK.

VORSICHT

Verwenden Sie beim Anschließen des NETWORK-Kabels des Geräts an ein Peripheriegerät ein abgeschirmtes Kabel, um Fehlfunktionen aufgrund von Störungen zu vermeiden.

Für Kunden in Europa

Der Hersteller dieses Produkts ist Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan.

Der autorisierte Repräsentant für EMV und Produktsicherheit ist Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Deutschland. Bei jeglichen Angelegenheiten in Bezug auf Kundendienst oder Garantie wenden Sie sich bitte an die in den separaten Kundendienst- oder Garantiedokumenten aufgeführten Anschriften.

Dieser Apparat darf nicht im Wohnbereich verwendet werden.

Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert „Batterie leer“ oder nach längerer Gebrauchsdauer der Batterien „nicht mehr einwandfrei funktioniert“. Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

Für Kunden in Europa, Australien und Neuseeland

WARNUNG

Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

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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/⏻ (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.

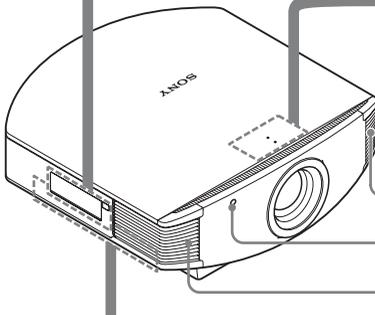
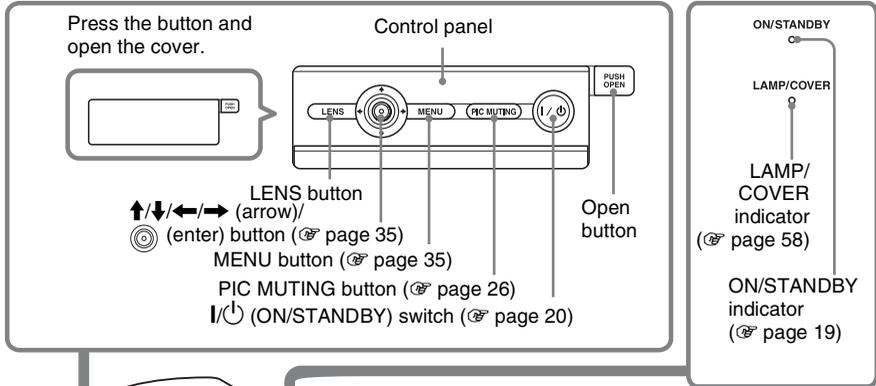
On repacking

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

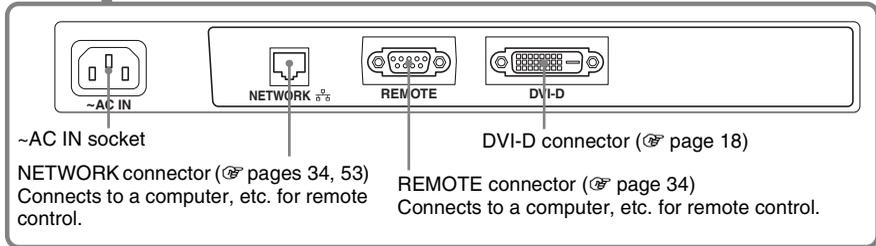
Front/Right Side

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



Note

While the ON/STANDBY indicator lights in orange, the power saving mode is on. (☞ page 47)



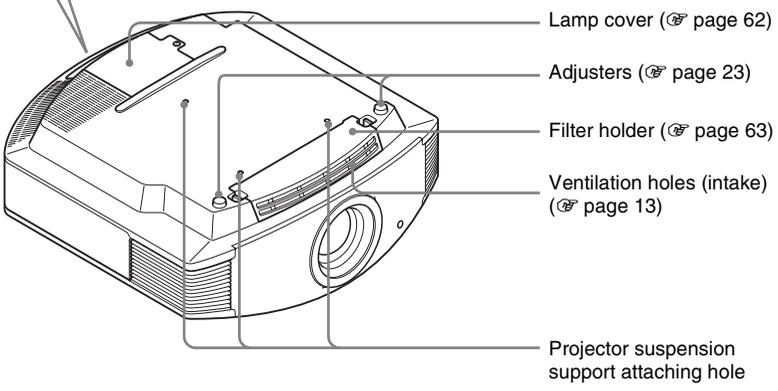
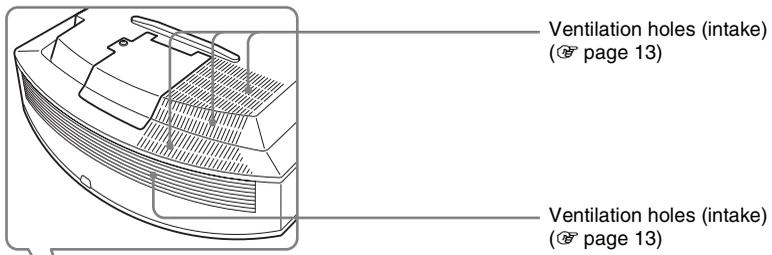
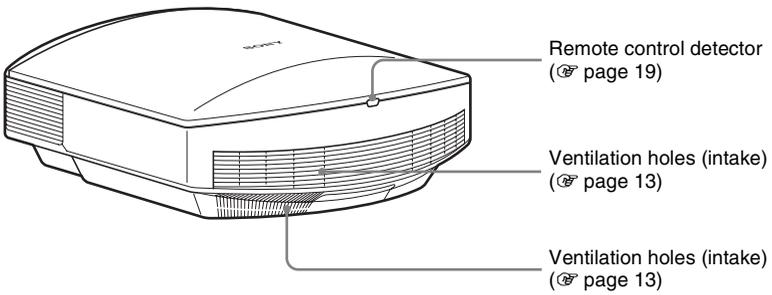
CAUTION

For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to the NETWORK connector.
Follow the instructions for the NETWORK connector.

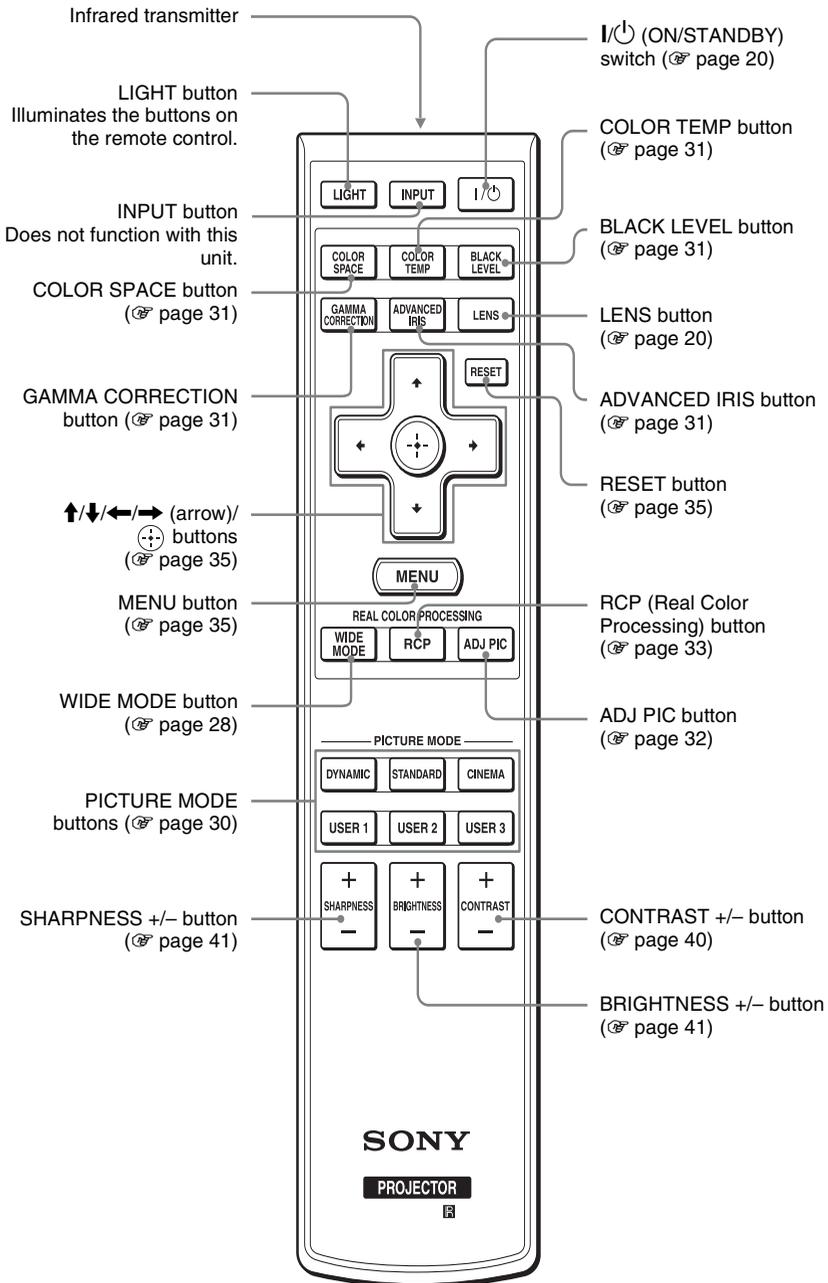
CAUTION

When you connect the NETWORK cable of the unit to peripheral device, use a shielded-type cable to prevent malfunction due to radiation noise.

Rear/Bottom



Remote Control



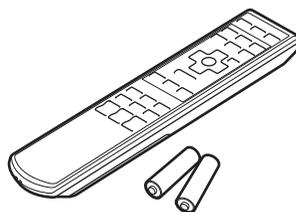
Connections and Preparations

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

Unpacking

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

- Remote control (1) and Size AA (R6) manganese batteries (2)
- AC power cord (1)
- ImageDirector3 CD-ROM (1)
- Operating Instructions (this manual)

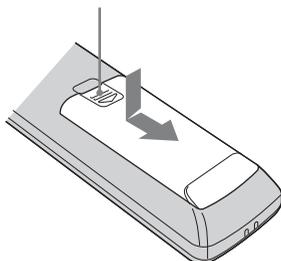


Installing batteries

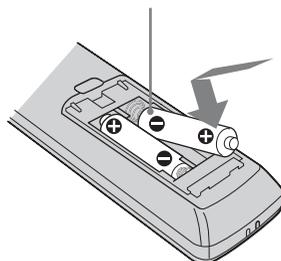
Two size AA (R6) batteries are supplied for the remote control. To avoid risk of explosion, use size AA (R6) manganese or alkaline batteries.

Inserting the batteries into the remote control

Push and slide to open.



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.



Caution about handling the remote control

- Handle the remote control with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote control in a location near a heat source, a place subject to direct sunlight, or a damp room.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

When you dispose of the battery, you must obey the law in the relative area or country.

Step 1: Installing the Projector

The projector displays pictures output from a computer or other device.

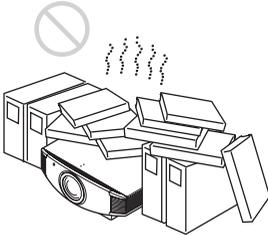
The lens shift allows you to have broader options for placing the projector and viewing pictures easily.

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

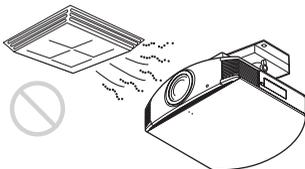


Leave space of more than 30 cm (11 7/8 inches) around the unit.

Hot and humid

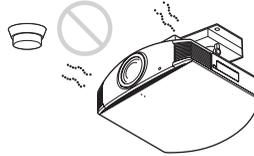


Locations subject to direct cool or warm air from an air-conditioner



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



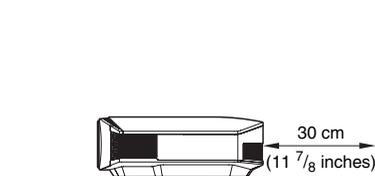
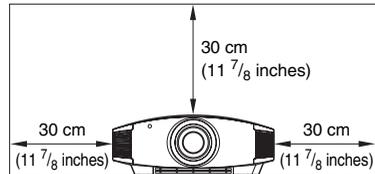
Malfunction of the sensor may occur.

Very dusty and extremely smoky locations



Install in a location away from walls

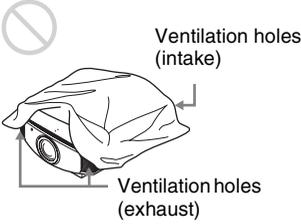
To maintain the performance and reliability of the projector, allow at least 30 cm (11 7/8 inches) between the projector and walls.



Improper use

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

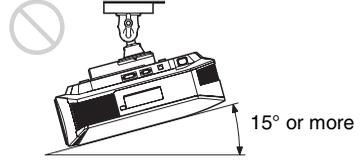
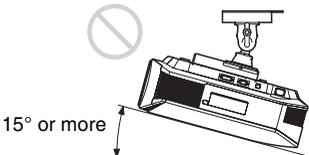
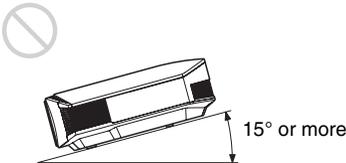
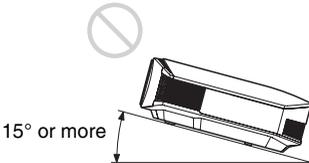
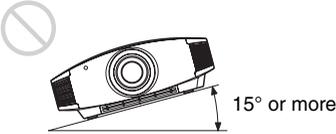
Blocking the ventilation holes (intake or exhaust)



Tip

For details on the location of the ventilation holes (intake or exhaust), see “Location of Controls” on page 9.

Tilting front/rear and left/right



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. Installing the projector in such a location may result in uneven color uniformity or reduce the reliability of the effects of the lamp.

When installing the unit at high altitudes

When using the projector at an altitude of 1,500 m or higher, set “Cooling Setting” in the Setup  menu to “High.” (ⓘ page 46) Failing to set this mode when using the projector at high altitudes could have adverse effects, such as reducing the reliability of certain components.

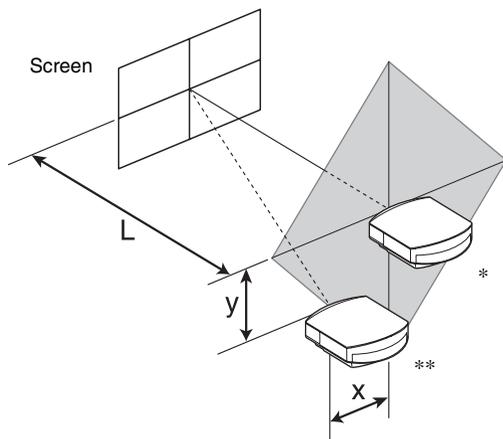
Positioning the Projector and a Screen

The installation distance between the projector and a screen varies depending on the size of the screen or whether or not you use the lens shift features.

1 Determine the installation position of the projector and screen.

You can obtain a good quality picture if you position the projector so that the center of the lens is within the area indicated in gray in the illustration.

Use the values L , x and y in the table on page 15 or 16 as a guide.



* Installation position not using lens shift ($x = 0$, $y = 0$)

** Example of installation position using lens shift (x , y)

L: Distance between the screen and the front end of the projector's lens.

x: Horizontal distance between the center of the screen and the center of the projector's lens.

y: Vertical distance between the center of the screen and the center of the projector's lens.

For details on the lens shift feature, see "Step 3: Adjusting the Picture Position."
(☞ page 19)

When using the 16:9 aspect ratio screen size

Screen Size SS (inches)		40	60	80	100	120	150	200	250	300
(mm)		1016	1524	2032	2540	3048	3810	5080	6350	7620
L	minimum	1201 (47 3/8)	1825 (71 7/8)	2448 (96 1/2)	3072 (121)	3695 (145 1/2)	4631 (182 3/8)	6189 (243 3/4)	7748 (305 1/8)	9307 (366 1/2)
	maximum	1840 (72 1/2)	2782 (109 5/8)	3723 (146 5/8)	4664 (183 5/8)	5605 (220 3/4)	7017 (276 3/8)	9371 (369)	11724 (461 5/8)	14077 (554 1/4)
x		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
y		324 (12 7/8)	486 (19 1/4)	648 (25 5/8)	809 (31 7/8)	971 (38 1/4)	1214 (47 7/8)	1619 (63 3/4)	2024 (79 3/4)	2428 (95 5/8)
x		44 (1 3/4)	66 (2 5/8)	89 (3 5/8)	111 (4 3/8)	133 (5 1/4)	166 (6 5/8)	221 (8 3/4)	277 (11)	332 (13 1/8)
y		259 (10 1/4)	389 (15 3/8)	518 (20 1/2)	648 (25 5/8)	777 (30 5/8)	971 (38 1/4)	1295 (51)	1619 (63 3/4)	1943 (76 1/2)
x		89 (3 5/8)	133 (5 1/4)	177 (7)	221 (8 3/4)	266 (10 1/2)	332 (13 1/8)	443 (17 1/2)	553 (21 7/8)	664 (26 1/4)
y		194 (7 3/4)	291 (11 1/2)	389 (15 3/8)	486 (19 1/4)	583 (23)	728 (28 3/4)	971 (38 1/4)	1214 (47 7/8)	1457 (57 3/8)
x		133 (5 1/4)	199 (7 7/8)	266 (10 1/2)	332 (13 1/8)	398 (15 3/4)	498 (19 5/8)	664 (26 1/4)	830 (32 3/4)	996 (39 1/4)
y		130 (5 1/8)	194 (7 3/4)	259 (10 1/4)	324 (12 7/8)	389 (15 3/8)	486 (19 1/4)	648 (25 5/8)	809 (31 7/8)	971 (38 1/4)
x		177 (7)	266 (10 1/2)	354 (14)	443 (17 1/2)	531 (21)	664 (26 1/4)	886 (35)	1107 (43 5/8)	1328 (52 3/8)
y		65 (2 5/8)	97 (3 7/8)	130 (5 1/8)	162 (6 1/2)	194 (7 3/4)	243 (9 5/8)	324 (12 7/8)	405 (16)	486 (19 1/4)
x		221 (8 3/4)	332 (13 1/8)	443 (17 1/2)	553 (21 7/8)	664 (26 1/4)	830 (32 3/4)	1107 (43 5/8)	1384 (54 1/2)	1660 (65 3/8)
y		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Unit: mm (inches)

To calculate the installation positions

$$L (\text{minimum}) = 31.1781 (1 \frac{7}{32}) \times SS - 46.1543 (1 \frac{13}{16})$$

$$L (\text{maximum}) = 47.0644 (1 \frac{27}{32}) \times SS - 42.3308 (1 \frac{21}{32})$$

$$y = -1.463 \times x (\text{mm or inch}) + 8.0942 (5 \frac{1}{16}) \times SS$$

When using the 4:3 aspect ratio screen size

Screen Size SS (inches)		40	60	80	100	120	150	200	250	300
(mm)		1016	1524	2032	2540	3048	3810	5080	6350	7620
L	minimum	1480 (58 ³ / ₈)	2243 (88 ³ / ₈)	3006 (118 ³ / ₈)	3770 (148 ¹ / ₂)	4533 (178 ¹ / ₂)	5677 (223 ⁵ / ₈)	7585 (298 ⁵ / ₈)	9493 (373 ³ / ₄)	11401 (448 ⁷ / ₈)
	maximum	2262 (89 ¹ / ₈)	3414 (134 ¹ / ₂)	4566 (179 ⁷ / ₈)	5718 (225 ¹ / ₈)	6870 (270 ¹ / ₂)	8598 (338 ⁵ / ₈)	11478 (452)	14357 (565 ¹ / ₄)	17237 (678 ⁵ / ₈)
x		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
y		396 (15 ⁵ / ₈)	594 (23 ¹ / ₂)	792 (31 ¹ / ₄)	991 (39 ¹ / ₈)	1189 (46 ⁷ / ₈)	1486 (58 ⁵ / ₈)	1981 (78)	2477 (97 ⁵ / ₈)	2972 (117 ¹ / ₈)
x		54 (2 ¹ / ₄)	81 (3 ¹ / ₄)	108 (4 ³ / ₈)	135 (5 ³ / ₈)	163 (6 ¹ / ₂)	203 (8)	271 (10 ³ / ₄)	339 (13 ³ / ₈)	406 (16)
y		317 (12 ¹ / ₂)	475 (18 ³ / ₄)	634 (25)	792 (31 ¹ / ₄)	951 (37 ¹ / ₂)	1189 (46 ⁷ / ₈)	1585 (62 ¹ / ₂)	1981 (78)	2377 (93 ⁵ / ₈)
x		108 (4 ³ / ₈)	163 (6 ¹ / ₂)	217 (8 ⁵ / ₈)	271 (10 ³ / ₄)	325 (12 ⁷ / ₈)	406 (16)	542 (21 ³ / ₈)	677 (26 ³ / ₄)	813 (32 ¹ / ₈)
y		238 (9 ³ / ₈)	357 (14 ¹ / ₈)	475 (18 ³ / ₄)	594 (23 ¹ / ₂)	713 (28 ¹ / ₈)	892 (35 ¹ / ₈)	1189 (46 ⁷ / ₈)	1486 (58 ⁵ / ₈)	1783 (70 ¹ / ₄)
x		163 (6 ¹ / ₂)	244 (9 ⁵ / ₈)	325 (12 ⁷ / ₈)	406 (16)	488 (19 ¹ / ₄)	610 (24 ¹ / ₈)	813 (32 ¹ / ₈)	1016 (40)	1219 (48)
y		158 (6 ¹ / ₄)	238 (9 ³ / ₈)	317 (12 ¹ / ₂)	396 (15 ⁵ / ₈)	475 (18 ³ / ₄)	594 (23 ¹ / ₂)	792 (31 ¹ / ₄)	991 (39 ¹ / ₈)	1189 (46 ⁷ / ₈)
x		217 (8 ⁵ / ₈)	325 (12 ⁷ / ₈)	433 (17 ¹ / ₈)	542 (21 ³ / ₈)	650 (25 ⁵ / ₈)	813 (32 ¹ / ₈)	1084 (42 ³ / ₄)	1355 (53 ³ / ₈)	1626 (64 ¹ / ₈)
y		79 (3 ¹ / ₈)	119 (4 ³ / ₄)	158 (6 ¹ / ₄)	198 (7 ⁷ / ₈)	238 (9 ³ / ₈)	297 (11 ³ / ₄)	396 (15 ⁵ / ₈)	495 (19 ¹ / ₂)	594 (23 ¹ / ₂)
x		271 (10 ³ / ₄)	406 (16)	542 (21 ³ / ₈)	677 (26 ³ / ₄)	813 (32 ¹ / ₈)	1016 (40)	1355 (53 ³ / ₈)	1693 (66 ³ / ₄)	2032 (80)
y		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Unit: mm (inches)

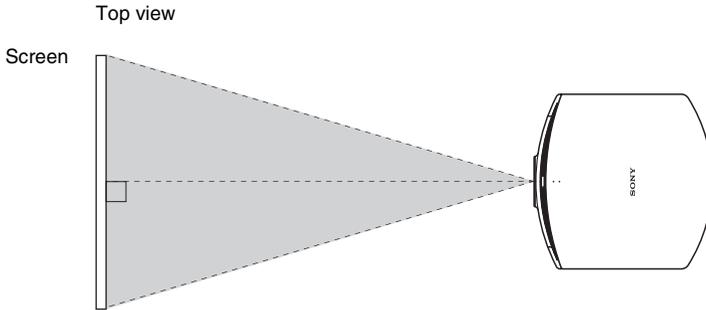
To calculate the installation positions

$$L (\text{minimum}) = 38.1569 (1 \frac{1}{2}) \times SS - 46.1543 (1 \frac{13}{16})$$

$$L (\text{maximum}) = 57.5992 (2 \frac{9}{32}) \times SS - 42.3308 (1 \frac{21}{32})$$

$$y = -1.463 \times x (\text{mm or inch}) + 9.9060 (3 \frac{3}{8}) \times SS$$

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



3 Project an image on the screen and adjust the picture so that it fits the screen. (☞ page 19)

To project an image, connect a computer or other equipment to the projector. (☞ page 18)

Note

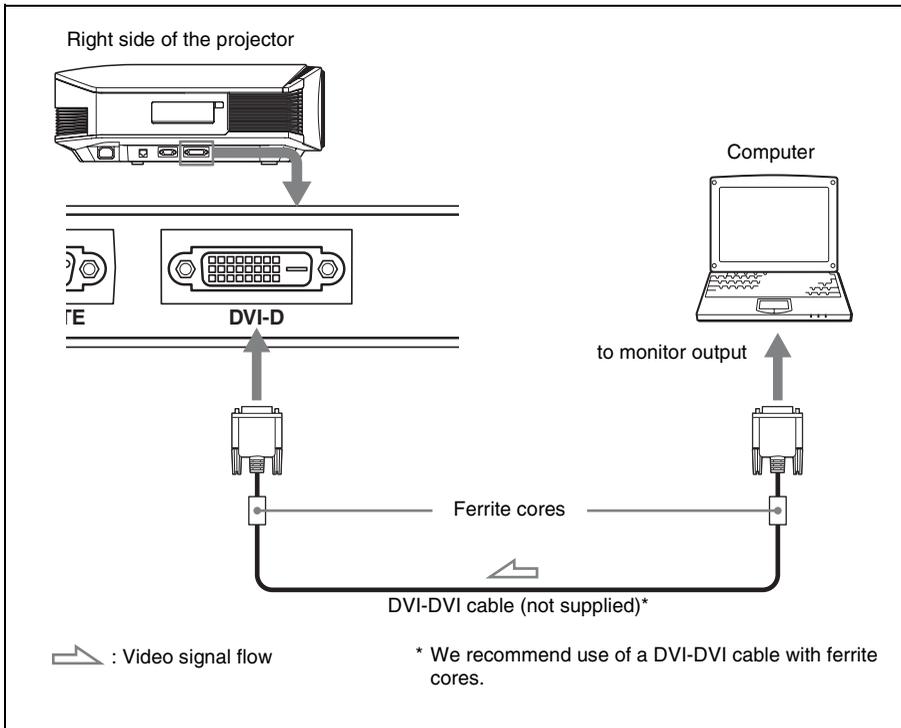
When using a screen with an uneven surface, stripes pattern may rarely appear on the screen depending on the distance between the screen and the projector or the zooming magnifications. This is not a malfunction of the projector.

Step 2: Connecting the Projector

When making a connection, be sure to do the following:

- Turn off the projector and a computer before making a connection.
- Use the proper connecting cable.
- Insert the cable plugs properly; poor connection at the plugs may cause a malfunction or poor picture quality. 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 Computer



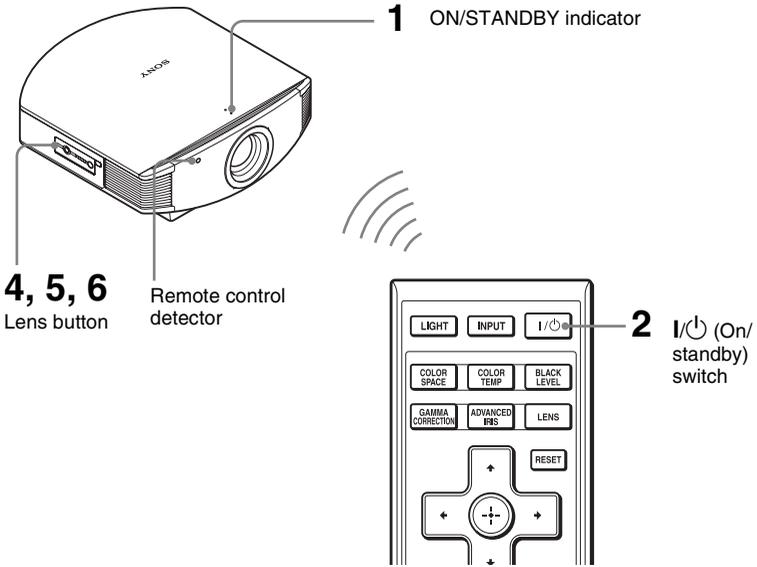
Note

If you set your computer, such as a notebook type, to output the signal to both computer's display and this equipment, the picture of the equipment may not appear properly. Set your computer to output the signal to only the external equipment.

For details, refer to the computer's operating instructions supplied with your computer. For settings of the computer, consult with the manufacturer of the computer.

Step 3: Adjusting the Picture Position

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



Tip

The I/⏻ (ON/STANDBY), LENS, MENU, and  (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.

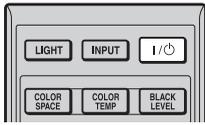
ON/STANDBY



Lights in red.

1 After connecting the AC cord to the projector, plug the AC cord into a wall outlet.

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



ON/STANDBY



Flashes in green for a while (tens of seconds) and then lights in green.



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

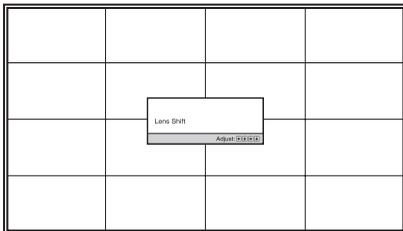
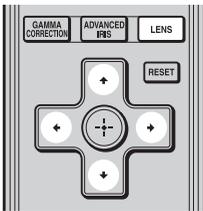
The ON/STANDBY indicator flashes in green, and then lights in green. When the ON/STANDBY indicator flashes, “Starting...” appears on the screen.

3 Turn on the equipment connected to the projector.

Refer to the operating instructions of the connected equipment. The DVI indication is displayed, and the picture is projected on the screen.

Tip

You can select the desired language for the menu screen. For details, refer to “Step 4: Selecting the Menu Language.” (📖 page 24)



4 Adjust the picture position.

Press the LENS button repeatedly until the Lens Shift adjustment window (test pattern) appears. Then adjust the proper position by pressing the ↑/↓/←/→ buttons. Each time you press the LENS button, the LENS adjustment window appears in order.

Lens Focus → Lens Zoom → Lens Shift

Tip

When “Lens Control” is set to “Off” on the Installation 🗨 menu, you cannot adjust the picture position. (📖 page 49)

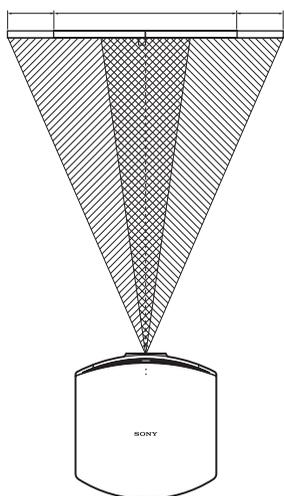
When “Test Pattern” is set to “Off” on the Function 📄 menu, the test pattern is not displayed. (📖 page 48)

To adjust the horizontal position

Press ←/→.

The picture projected on the screen moves right or left by a maximum of 25% of the screen width from the center of the lens.

25% 1 screen width 25%



Top view

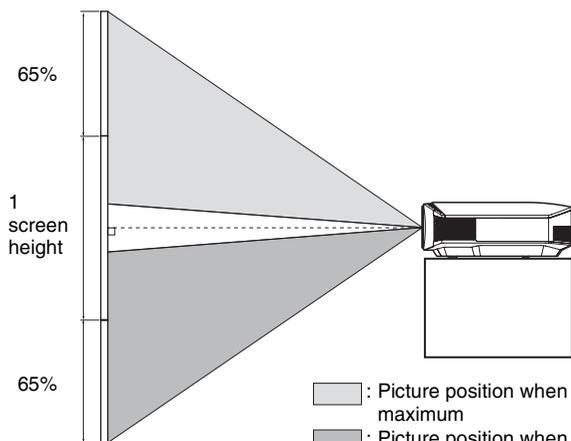
- : Picture position when moving the picture to the left at maximum
- : Picture position when moving the picture to the right at maximum

To adjust the vertical position

Press **↑/↓**.

The picture projected on the screen moves up or down by a maximum of 65% of the screen height from the center of the lens.

Side view

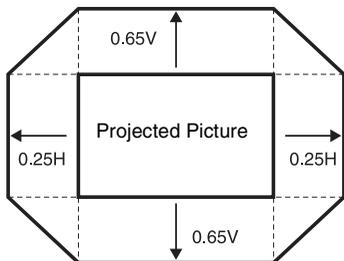


- : Picture position when moving the picture upward at maximum
- : Picture position when moving the picture downward at maximum

Note

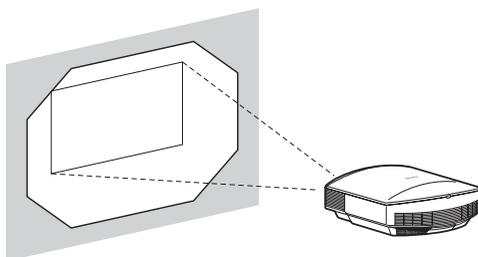
The range to move the picture projected on the screen can be adjusted only within the octagon area illustrated below. In this connection, see “Positioning the Projector and a Screen” (☞ page 14) as well.

Range of movement of the projected picture



H: Width of the projected picture

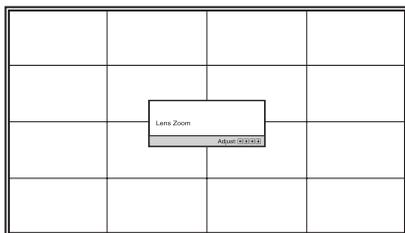
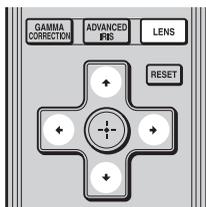
V: Height of the projected picture



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 pressing the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons.

To make the picture larger, press \uparrow/\rightarrow .
To make the picture smaller, press \downarrow/\leftarrow .



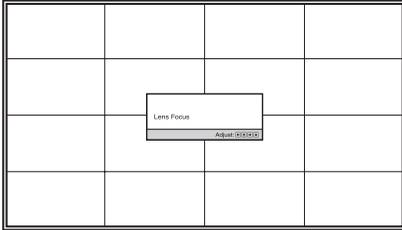
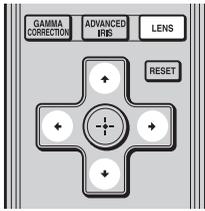
Tip

When "Lens Control" is set to "Off" on the Installation  menu, you cannot adjust the picture size and the focus. ( page 49)

When "Test Pattern" is set to "Off" on the Function  menu, the test pattern is not displayed. ( page 48)

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 pressing the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons.

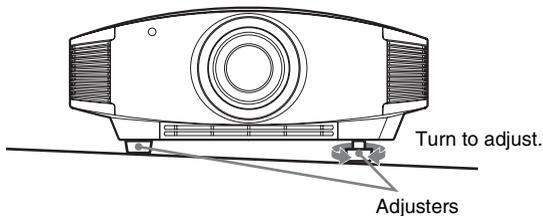


Note

Be sure to adjust the picture size and the focus by using buttons on the remote control or the control panel of the projector. Never make adjustments by directly turning the lens with your hands, which may cause damage or malfunction to the projector.

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.

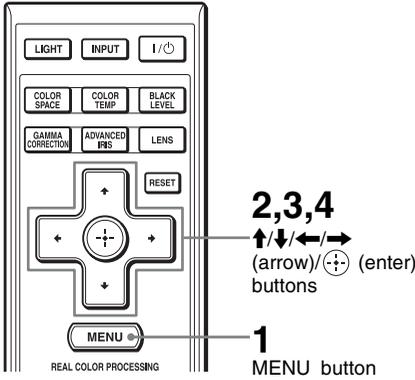


Note

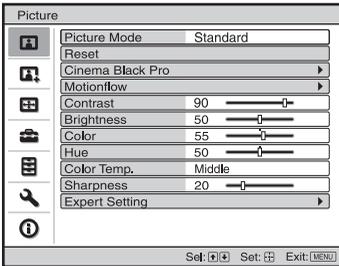
Be careful not to catch your finger when turning the adjusters.

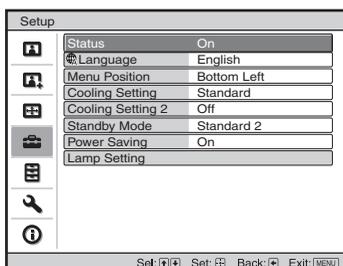
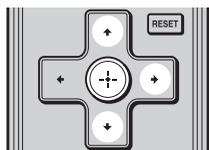
Step 4: Selecting the Menu Language

You can select one of 16 languages for displaying the menu and other on-screen displays. The factory default setting is English. To change the current menu language, set the desired language with the menu screen.

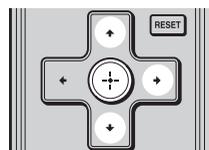


- 1 Press MENU.**
The menu appears.

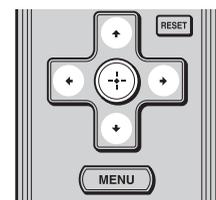




- 2** Press **↑/↓** to select the **Setup**  menu, and press **→** or .
- The setting items of the selected menu appears.



- 3** Press **↑/↓** to select “Language,” and press **→** or .



- 4** Press **↑/↓/←/→** to select a language, and press .
- The menu changes to the selected language.

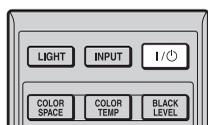
To clear the menu

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.

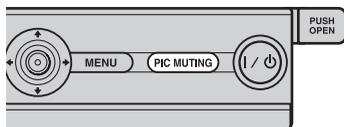
Projecting the Picture on the Screen



Power on both the projector and the equipment connected to the projector.

The DVI indication is displayed, and the picture is projected on the screen.

Side panel of the projector



To cut off the picture temporarily

Press the PIC MUTING button on the side panel of the projector. To restore the picture, press the PIC MUTING button again.

Notes on input of a DVI-D signal

The projector adjusts the RGB dynamic range of the equipment connected with the DVI cable to a Full (0-255) signal.

When a Limited (16-235) signal is input, the following symptom may occur.

- When a video signal is input, the color gradation of the dark area or bright area may become unclear. In this case, switch the RGB dynamic range of the connected equipment to Full (0-255). If this adjustment is unavailable, adjust “Brightness” or “Contrast” in the Picture  menu of the projector. (🔗 pages 40 and 41)

Turning Off the Power

1 Press the I/⏻ (ON/STANDBY) switch.

A message “POWER OFF?” appears on the screen.

2 Press the I/⏻ (ON/STANDBY) switch again before the message disappears.

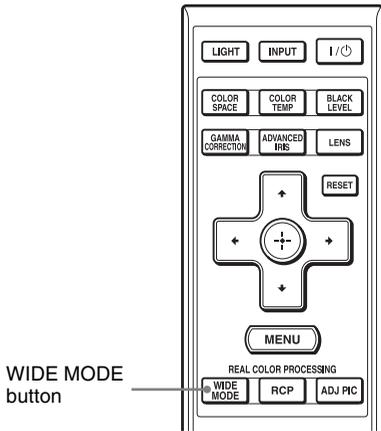
The ON/STANDBY indicator flashes in green and the fan continues to run to reduce the internal heat. First, the ON/STANDBY indicator flashes quickly, during which you will not be able to light up the ON/STANDBY indicator with the I/⏻ (ON/STANDBY) switch.

3 Confirm that 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 1 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.

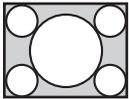


Press WIDE MODE.

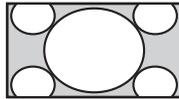
Each time you press the button, you can select the “Wide Mode” setting.

You can also select it using the menu.
(☞ page 44)

Original image

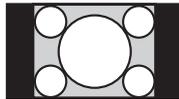
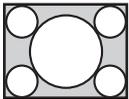


When the Wide Mode is operated



Wide Zoom

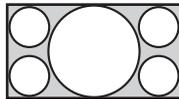
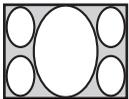
A 4:3 aspect ratio picture is enlarged naturally to fill the screen. The upper and lower portions of the screen are slightly cut off.



Normal

A 4:3 aspect ratio picture is displayed in the center of the screen and enlarged to fill the screen vertically.

Squeezed



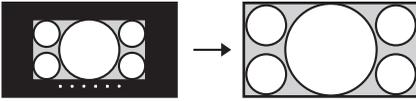
Full

A picture squeezed to 4:3 aspect ratio is displayed in its original aspect ratio. When a 4:3 aspect ratio picture is displayed, the picture is enlarged horizontally to fill the 16:9 screen.

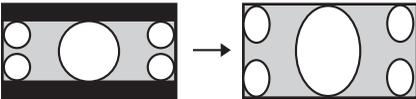
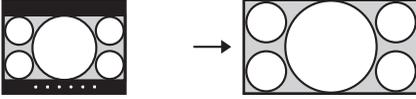
Tip

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

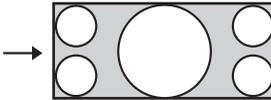
Letterbox picture with side panels



Letterbox picture



When using an
Anamorphic lens



Zoom

A 16:9 aspect ratio picture is enlarged vertically and horizontally in the same ratio to fill the screen. Use this mode to view a letterbox picture or a letterbox picture with side panels.

If the subtitle of a movie, etc. is hidden and cannot be seen, adjust the screen with “Vertical Size” and “V Center” to display the subtitle. (🔧 page 45)

Anamorphic Zoom

A 2.35:1 aspect ratio picture is converted to a normal 16:9 picture on the screen. This mode is best suited when using a commercially available Anamorphic lens which converts a normal 16:9 aspect ratio picture to a 2.35:1 picture.

Full 1 (When a computer signal is input)

Displays a picture on the whole of the screen without changing the aspect ratio of the original picture.

Full 2 (When a computer signal is input)

Displays a picture on the whole of the screen.

Notes

- You can adjust the vertical position of the picture with “V Center” and “Vertical Size” in the Screen  menu only when “Zoom” is selected. (🔧 page 45)
- Depending on the type of Anamorphic lens, part of the screen may be cut off when you zoom in on the picture. Check the specifications of the Anamorphic lens you use.

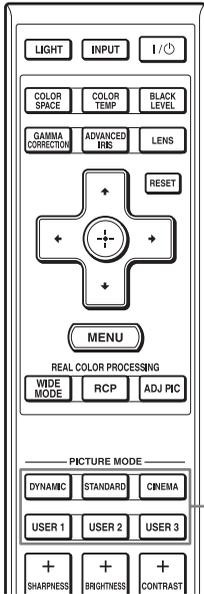
Notes on selecting the wide screen mode

The projector is featured with the WIDE MODE. When changing the settings of WIDE MODE, use caution as described below.

- 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

Vivid picture quality that enhances the sharpness and contrast of the picture.

STANDARD

Standard picture quality that emphasizes on naturalness.

CINEMA

Picture quality suited for watching movies.

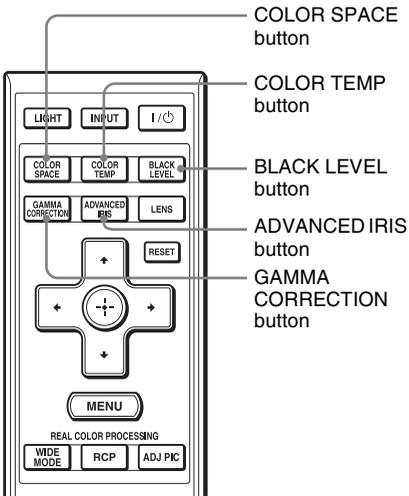
USER 1, USER 2 and USER 3

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 31, 39). 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 easily 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.

Selecting to Directly Adjust the Desired Menu Item



The following menu items can be adjusted by using the buttons on the remote control.

“Color Space”

“Color Temp.”

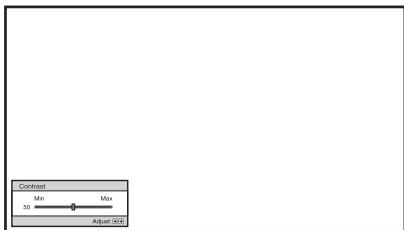
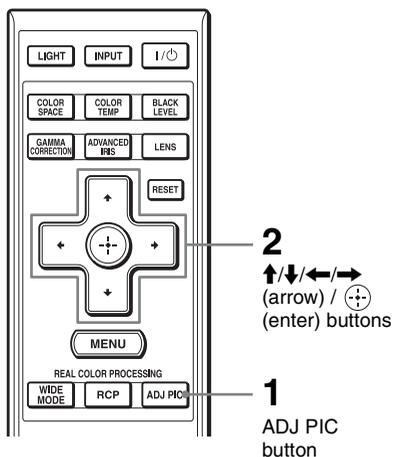
“Black Level Adj.”

“Advanced Iris”

“Gamma Correction”

Press the button of the desired menu item repeatedly to adjust the picture quality to suit your taste. For details on each menu item, see the Picture  menu. (📖 page 39)

Selecting Desired Adjust Menu Items in Sequence



Example: To adjust the contrast

1 Press ADJ PIC.

Each time you press the button, the following adjustment windows are displayed in sequence. “Advanced Iris”, “Lamp Control”, “Film Projection”, “Motion Enhancer”, “Contrast”, “Brightness”, “Color”, “Hue”, “Color Temp.”, “Sharpness”, “NR”, “MPEG NR”, “Film Mode”, “Black Level Adj.”, “Gamma Correction”, “Color Space”

For details on each adjustment, see the Picture  menu. (Ⓞ page 39)

Note

Some adjustment windows cannot be displayed, depending on the type of input signal. For details, see “Input Signals and Adjustable/Setting Items.” (Ⓞ page 69)

2 Make the setting or adjustment on an item with ↑/↓/←/→.

When changing the adjustment level

To increase the value, press ↑/→.
To decrease the value, press ↓/←.

When changing the setting

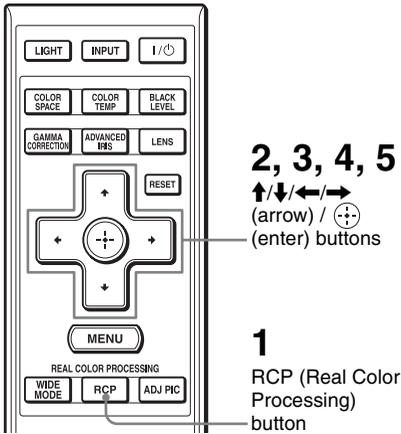
Press ↑/↓ to change the setting.

Adjusting the Picture Using Real Color Processing

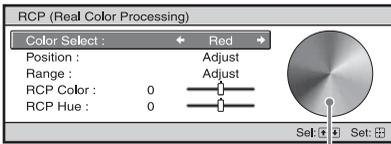
The Real Color Processing (RCP) feature allows you to adjust the color and hue of each target of the projected picture you specify independently. You can thus obtain a picture more suitable to your taste.

Tip

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



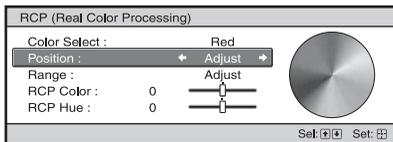
- 1 Press RCP on the remote control.
 - 2 Press ↑/↓ to select “User 1,” “User 2” or “User 3,” then press →.
 - 3 Select the target color you want to adjust.
- Repeat steps 1 and 2 described below to specify the target color.



Reference palette

- 1 Press ↑/↓ to select “Color Select,” then press ←/→ 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. Select the desired setting to adjust the color on the projected image using the reference palette as a guide.



2 Press **↑/↓** to select “Position” or “Range,” and specify it more delicate color position and color range you want to adjust using **←/→**.

4 Adjust the color of the specified portions.

Press **↑/↓** 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 **←/→** while watching the projected picture. The picture is returned to normal color during adjustment.

5 After the adjustment is complete, press **⊕**.

The RCP window disappears and the picture of step 2 appears. Then after a few seconds, normal picture is restored.

Tip

There are some limitations on selection of position and range.

Using the Supplied Software to Adjust the Picture Quality (ImageDirector3)

By using the “ImageDirector3” (supplied as a CD-ROM), you can make the desired gamma correction from a computer connected to the projector. Connect the REMOTE or NETWORK connector of the projector with a computer and start-up “ImageDirector3” on the computer.

For details on how to use the “ImageDirector3”, refer to the Help within the CD-ROM.

Notes

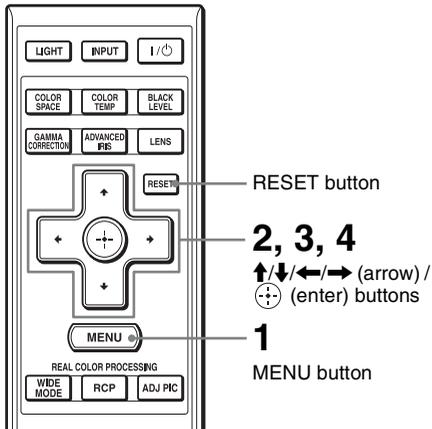
- You need to install the “ImageDirector3” on a computer beforehand.
- When connecting the REMOTE or NETWORK connector on the projector with a computer, turn off the powers of the computer and the projector.

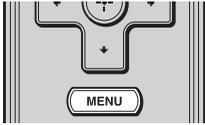
Using the Menus

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

Operation through the Menus

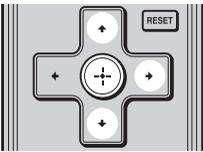
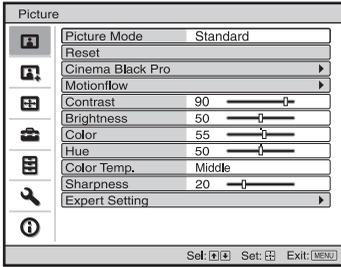
The projector is equipped with an on-screen menu for making various adjustments and settings. Some of the adjustable/setting items are displayed in a pop-up menu, in a setting menu or adjustment menu with no main menu, or in the next menu window. If you select an item name followed by an arrow (▶), the next menu window with setting items appears. To change the on-screen menu language, see “Step 4: Selecting the Menu Language.” (☞ page 24)





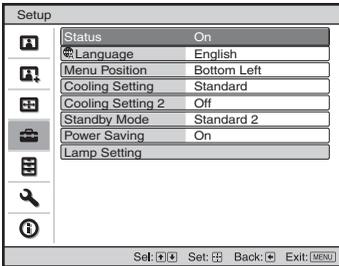
1 Press MENU.

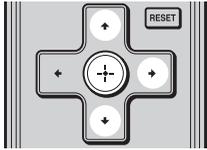
The menu window appears.



2 Press **↑/↓** to select a menu item, and press **→** or **⊕**.

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





Pop-up menu

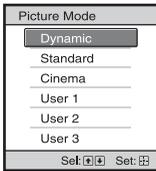
Setting items

3 Press **↑/↓** to select an item you want to set or adjust and press **→** or **⊕**.

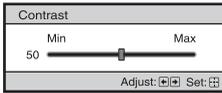
The setting items are displayed in a pop-up menu, in a setting menu, in an adjustment menu or in the next menu window.



Setting menu

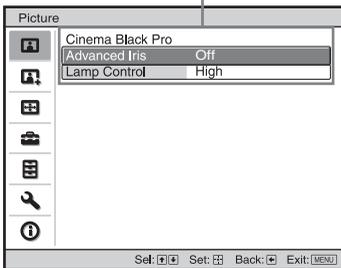


Adjustment menu



Next menu window

Setting items



4 Make the setting or adjustment of an item.

When changing the adjustment level

To increase the value, press **↑/→**.

To decrease the value, press **↓/←**.

Press **⊕** to restore the original screen.

When changing the setting

Press **↑/↓** to change the setting.

Press **⊕** to restore the original screen.

You can restore the original screen using **←** depending on the selected item.

Items that cannot be adjusted

Adjustable items differ depending on the input signal. The items that cannot be adjusted or set do not appear in the menu.

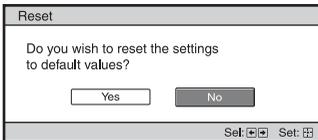
(☞ page 69)

To clear the menu

Press MENU.

To reset the picture that has been adjusted

Select “Reset” from Picture **ⓐ** menu.



When the screen display appears, select “Yes” using **←** and press **⊕**.

All of the following settings are reset to its factory preset value.

The settings of “Cinema Black Pro,” “Motionflow,” “Contrast,” “Brightness,” “Color,” “Hue,” “Color Temp.,” “Sharpness” and “Expert Setting” on the Picture **ⓐ** menu

To reset the items that have been adjusted

Select an item in the Menu screen, and display the pop-up menu, the setting menu, and the adjustment menu.

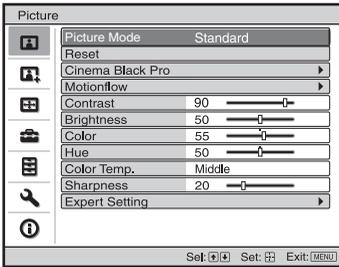
Press the RESET on the remote control to reset only the selected settings to its factory preset value.

Note

The RESET button on the remote control is available only when the adjustment menu or the setting menu is selected.

Picture Menu

The Picture menu is used for adjusting the picture.



Note

Some items may not be available, depending on the type of input signal. For details, see “Input Signals and Adjustable/Setting Items.” (📖 page 69)

<p>Picture Mode</p>	<p>You can select the picture viewing mode that best suits the type of picture or the environment.</p> <p>Dynamic: Vivid picture quality that enhances sharpness and contrast of the picture.</p> <p>Standard: Standard picture quality that emphasizes on naturalness.</p> <p>Cinema: Picture quality suited for watching movies.</p> <p>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.</p> <p>To store the settings</p> <ol style="list-style-type: none"> 1 Select User 1, User 2, or User 3. 2 Adjust the items you want in the menus. <p>Tip</p> <p>You can also store the settings if the picture quality is adjusted in “Dynamic,” “Standard” or “Cinema.” To reset everything to the factory settings, select “Reset” from the menu.</p>
----------------------------	--

<p>Cinema Black Pro</p>	<p>Advanced Iris Switches the iris function during projection. Auto 1: Automatically switches to an optimum iris according to a projected scene. The contrast of the scene is emphasized most. Auto 2: An optimum iris becomes smaller than that when set to “Auto 1.” The contrast of the scene becomes reduced. Sensitivity: If “Auto 1” or “Auto 2” is selected, “Recommend,” “Fast” or “Slow” can be selected according to the desired response speed with Sensitivity Mode. Manual: Manually adjusts the Iris.</p> <div data-bbox="555 357 777 445" style="text-align: center;"> </div> <p>Off: Normal contrast.</p>
	<p>Lamp Control Switches the lamp wattage during projection. High: Normal wattage. Low: Enhances the black by reducing the lamp wattage. Tip When you switch from “Low” to “High,” the number of fan rotation increases, and the fan noise becomes slightly louder.</p>
<p>Motionflow</p>	<p>Film Projection Reproduces movies in its original moving picture. Mode 1: Black Frame Insertion Mode (for motion blur reduction). Mode 2: Dark Frame Insertion Mode (for motion blur reduction). The picture is brighter than in “Mode 1.” Off: Normal picture.</p> <p>Note</p> <p>When you select “Mode 1” or “Mode 2,” the picture will become slightly darker than in “Off.”</p> <p>Motion Enhancer Reproduces fast-moving pictures smoothly without generating afterimages. High: Select this for picture quality smoother than “Low.” Low: Select this for smooth picture quality. Off: Select “Off” when noise, etc. appears in “High” or “Low.” Usually, set “Motion Enhancer” to “Off.”</p> <p>Note</p> <p>Depending on the scene, a noise may appear on the picture.</p>
<p>Contrast</p>	<p>Adjusts the white area of pictures (white level). The higher the setting, the greater the contrast. The lower the setting, the lower the contrast. You can make adjustments by pressing the CONTRAST+/- on the remote control.</p>

Brightness	<p>Adjusts the brightness of the picture. The higher the setting, the brighter the picture. The lower the setting, the darker the picture. You can make adjustments by pressing the BRIGHTNESS+/- on the remote control.</p>
Color	<p>Adjusts the intensity of the color density. The higher the setting, the greater the intensity. The lower the setting, the lower the intensity.</p>
Hue	<p>Adjusts the color tone. The higher the setting, the more greenish the picture becomes. The lower the setting, the more reddish the picture becomes.</p>
Color Temp.	<p>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. Custom 1, Custom 2, Custom 3, Custom 4: Enables you to adjust, set, and store your favorite color temperature.</p>
Sharpness	<p>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. You can make adjustments by pressing the SHARPNESS+/- on the remote control.</p>
Expert Setting	<p>NR (Noise Reduction) 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.</p>
	<p>MPEG NR (MPEG Noise Reduction) Reduces block noise and mosquito noise. Block NR: Reduces digital noise that appears in mosaic-like pattern. Mosquito NR: Reduces digital noise that appears near the outline of the picture.</p>
	<p>Film Mode According to the film source you have selected, make a setting for playback. Auto 1: Suited for reproducing a picture movement close to the original picture movement of the film source. Normally, set this to “Auto 1.” Auto 2: Reproduces a 2-3 or 2-2 Pull-Down format video signal, such as film sources, in a smooth picture movement. When a video signal other than 2-3 or 2-2 Pull-Down format is input, the picture is played back in progressive format. Off: Plays back the picture in progressive format without detecting video signals automatically.</p>
	<p>Black Level Adj. (Adjust) Produces a bolder, dynamic picture. Set according to the input signal source. High: Gives higher emphasis to the black color. Low: Gives lower emphasis to the black color. Off: Cancels this feature.</p>

Expert Setting

Gamma Correction

Adjusts the response characteristics of the tone of the picture.

Select a favorite tone from 6 options.

Gamma 1: Makes the scene much brighter overall.

Gamma 2: Makes the scene brighter overall.

Gamma 3: Makes the scene slightly brighter overall.

Gamma 4: Makes the scene darker overall.

Gamma 5: Gamma curve is set to a setting that makes the dark area of the screen brighter and is suited for when using a matt projection screen.

Gamma 6: Gamma curve is set to a setting that makes the bright area of the screen even brighter.

Off: Gamma Correction is “Off.”

Using the specified controller, “ImageDirector3” (supplied as a CD-ROM) allows you to adjust, set, and store a favorite tone in a computer. For detailed information on “ImageDirector3,” refer to the Help provided on the supplied CD-ROM in the computer.

Color Space

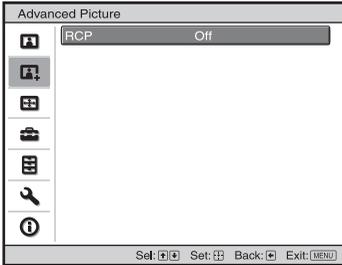
You can convert the range of color reproduction.

Normal: Converts the color tones to those that match the specifications of Hi-Vision signal.

Wide: Reproduces more natural color tones in a wider range of color reproduction, compared to “Normal.”

Advanced Picture Menu

The Advanced Picture is used for adjusting the picture more.



RCP (Real Color Processing)

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

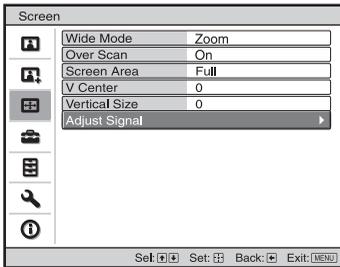
User 1, User 2, User 3: You can adjust the picture using Real Color Processing and store the settings. Once the settings are stored, you can view the picture with the adjusted picture quality.

Off: Cancels this feature.

For details, see “Adjusting the Picture Using Real Color Processing.”
(📖 page 33)

Screen Menu

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



Note

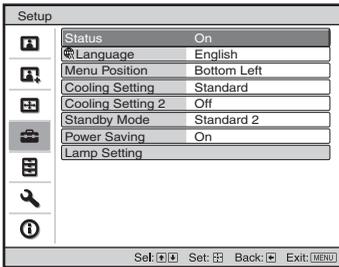
These items may not be available, depending on the type of input signal. For details, see “Input Signals and Adjustable/Setting Items.” (☞ page 69)

<p>Wide Mode (Video signal)</p>	<p>You can set the aspect ratio of the picture to be displayed for the current input signal. (☞ page 28) This item is enabled only when a video signal (preset memory numbers 3 to 8, 10 to 14) (☞ pages 67, 68) is input.</p> <p>Wide Zoom: A 4:3 aspect ratio picture is enlarged naturally to fill the screen. The upper and lower portions of the screen are slightly cut off.</p> <p>Normal: A 4:3 aspect ratio picture is displayed in the center of the screen and enlarged to fill the screen vertically.</p> <p>Full: A picture squeezed to 4:3 aspect ratio is displayed in its original aspect ratio. When a 4:3 aspect ratio picture is displayed, the picture is enlarged horizontally to fill the 16:9 screen.</p> <p>Zoom: A 16:9 aspect ratio picture is enlarged vertically and horizontally in the same ratio to fill the screen.</p> <p>Anamorphic Zoom: A 2.35:1 aspect ratio picture is converted to a normal 16:9 picture on the screen. This mode is best suited when using a commercially available Anamorphic lens which converts a normal 16:9 aspect ratio picture to a 2.35:1 picture. (☞ page 29)</p> <p>You can switch settings by pressing WIDE MODE on the remote control.</p>
<p>Wide Mode (Computer signal)</p>	<p>You can set the aspect ratio of the picture to be displayed for the current input signal. (☞ page 29) This item is enabled only when a computer signal is input.</p> <p>Full 1: Displays a picture on the whole of the screen without changing the aspect ratio of the original picture.</p> <p>Full 2: Displays a picture on the whole of the screen.</p> <p>Zoom: A 16:9 aspect ratio picture is enlarged vertically and horizontally in the same ratio to fill the screen.</p> <p>You can switch settings by pressing WIDE MODE on the remote control.</p>

Over Scan	<p>Hides the outline of the picture.</p> <p>On: Hides the outline of the input picture. Select this setting when noise appears along the edge of the picture.</p> <p>Off: Projects the whole of the input picture.</p> <p>Tip</p> <p>To display the displayable region within the four directions of the screen, refer to “Blanking” on the Installation  menu (Ⓞ page 49).</p>
Screen Area	<p>Selects the size of the picture when a Hi-Vision picture is overscanned.</p> <p>Full: Expands the picture on the whole of the screen.</p> <p>Through: Does not expand the picture on the whole of the screen.</p>
V Center	<p>Adjust the whole picture by moving up and down on the screen.</p> <p>As the selected number increases, the screen moves up, and as the selected number decreases, the screen moves down.</p>
Vertical Size	<p>Reduces or enlarges the picture vertically.</p> <p>The screen is enlarged as the setting increases and reduced as the setting decreases. If the subtitle of a movie, etc. cannot be seen, use this together with “V Center.”</p>
Adjust Signal	<p>You can adjust the input signal.</p> <p>Shift: Adjusts the position of the picture.</p> <p>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  /  to adjust the horizontal position.</p> <p>V: As the setting for V (vertical) increases, the picture moves up, and as the setting decreases, the picture moves down. Use  /  to adjust the vertical position.</p>

Setup Menu

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

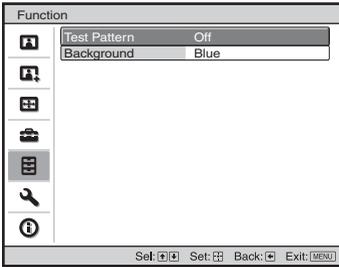


Status	<p>Sets whether or not the on-screen display is to be displayed. Set to "Off" to turn off the on-screen displays except for certain menus, the message displayed when you turn off the power, and warning messages. Set to "All Off" to turn off the on-screen displays except for certain menus and the message displayed when you turn off the power. (☞ page 59)</p>
Language	<p>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, Thai and Arabic.</p>
Menu Position	<p>You can change the position to display the menu on the upper screen. Bottom Left: Displays the menu on the bottom left area of the screen. Center: Displays the menu on the center of the screen.</p>
Cooling Setting	<p>Use this item when using the projector at high altitudes. High: Use this setting when using the projector at an altitude of 1,500 m or higher. Standard: Use this setting when using the projector at normal altitudes.</p> <p>Note</p> <p>When this item is set to "High," the fan noise becomes slightly louder since the number of fan rotation increases.</p>
Cooling Setting 2	<p>Use this item only when the projector will be used in special circumstances. Normally, set this item to "Off."</p>

Standby Mode	<p>Lowers the power consumption in standby.</p> <p>Standard 1: Sets power consumption to normal.</p> <p>Standard 2: Sets the network function ineffective and power consumption lower than “Standard 1.”</p> <p>Low: Sets power consumption lower than “Standard 2.”</p> <p>Note</p> <p>When this item is set to “Low” or “Standard 2,” the network function will not operate in standby.</p>
Power Saving	<p>Sets the power saving mode.</p> <p>When set to “On”, the projector goes into power saving mode if no signal is input for 10 minutes. At that time, the ON/STANDBY indicator lights in orange, then the screen becomes dark. The power saving mode is cancelled if a signal is input or any button on the projector or the remote control is pressed. If you do not want to set the projector to power saving mode, select “Off.”</p>
Lamp Setting	<p>Selects this item after you have replaced the lamp.</p> <p>(☞ page 63)</p>

Function Menu

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



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." A test pattern does not appear when this item is set to "Off." Tip While the test pattern is displayed, it is only displayed in green to allow you to adjust the focus easily.
Background	Selects the background color of the screen when no signal is input. You can select "Black" or "Blue."

Installation Menu

The Installation menu is used for changing the installation settings.

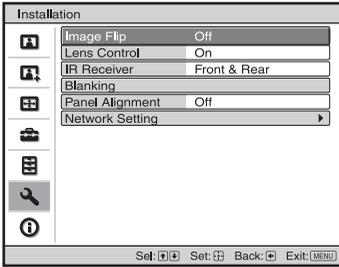


Image Flip	<p>Flips the picture on the screen horizontally and/or vertically. HV: Flips the picture horizontally and vertically. H: Flips the picture horizontally. V: Flips the picture vertically. Off: The picture does not flip. Use this item for installation for the backside projection or ceiling installation.</p>
Lens Control	<p>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.</p>
IR Receiver	<p>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.</p>
Blanking	<p>This feature allows you to adjust the displayable region within the four directions of the screen. Select each screen edge “Left / Right / Top / Bottom” on the Blanking adjustment screen with ↑ / ↓ buttons. Adjust the desired Blanking value with ← / → button.</p> <div data-bbox="547 1152 820 1310" data-label="Image"> <p>The screenshot shows the 'Blanking' adjustment screen with the following values:</p> <ul style="list-style-type: none"> Left: 2 Right: 3 Top: 2 Bottom: 3 <p>At the bottom of the screen, there are navigation buttons: Set (F4), Adjust (F5), and Set (F3).</p> </div>

Panel Alignment

This feature allows you to adjust the gaps in the color of characters or the picture.

When set to “On,” “Adjust Color” and “Pattern Color” can be assigned and adjusted.

Adjust Item: Selects how to make adjustments from below.

Shift: Shifts the whole picture and makes adjustments.

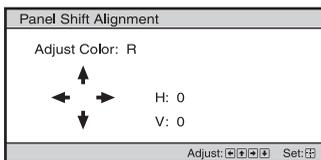
Zone: Selects the desired range and makes adjustments.

Adjust Color: Assigns the desired color to adjust the gaps in color. Select “R” (Red) or “B” (Blue) to make adjustments based on “G” (Green).

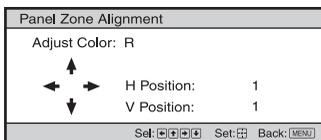
Pattern Color: Select “R/G” (Red and Green) or “R/G/B” (White, all colors) when the “Adjust Color” is “R” (Red). Select “B/G” (Blue and Green) or “R/G/B” (White, all colors) when the “Adjust Color” is “B” (Blue).

Adjust: The shift adjustment and zone adjustment of the color selected in “Adjust Color” can be made with ← / →, ↑ / ↓ buttons.

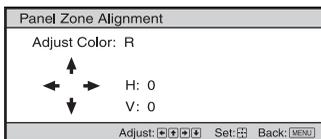
When “Shift” is selected: Assign the settings of the horizontal direction (H) with ← / → buttons and the vertical direction (V) with ↑ / ↓ buttons on the shift adjustment screen.



When “Zone” is selected: Select the position to adjust with ← / → buttons for the horizontal position (H position) and ↑ / ↓ buttons for the vertical position (V position), then press ⊕.



Set the amount to adjust with ← / → buttons for the horizontal direction (H direction) and with ↑ / ↓ buttons for the vertical direction (V direction). You can select the position to adjust again by pressing ⊕.



Reset: Returns to the factory settings.

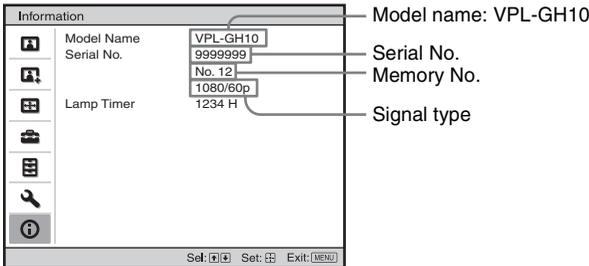
Note

Depending on the adjustments made above, colors may become uneven or the resolution may change.

Network Setting	<p>You can configure the network settings such as IP address, Subnet Mask, Default Gateway, and DNS Server when accessing the projector from a computer or using the supplied application “ImageDirector3.”</p> <p>IP Address Setup Select either “Auto (DHCP)” or “Manual.” When you select “Manual,” you can set “IP Address,” “Subnet Mask,” “Default Gateway,” “Primary DNS” and “Secondary DNS.” After completing all the settings, select “Apply” using the ↓ button, then press the (+) button.</p> <p>IP Address Sets the IP Address of the projector. (1.0.0.0 to 223.255.255.255)</p> <p>Subnet Mask Sets the Subnet Mask of the projector. (1.0.0.0 to 255.255.255.255)</p> <p>Default Gateway Sets the Default Gateway of the projector. (1.0.0.0 to 223.255.255.255)</p> <p>Primary DNS Sets the DNS server to be used as a priority. (1.0.0.0 to 223.255.255.255)</p> <p>Secondary DNS Sets the alternative DNS server. (1.0.0.0 to 223.255.255.255)</p> <p>MAC Address Displays MAC address of the projector. You cannot change this setting.</p>
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Information Menu

The Information menu displays the model name, serial number, memory number of the input signal and the cumulated hours of usage of the lamp.



Model name	Displays the model name (VPL-GH10).
Serial No.	Displays the serial number.
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).

Notes

- fH (horizontal frequency) and fV (vertical frequency) may not be displayed appropriately depending on the input signal used on the projector.
- You cannot change the displays listed above.

About the Preset Memory No.

This projector has 19 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 Screen  menu.

See the chart on page 67 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 51)

Enter the IP address here.



Tip

When “Standby Mode” in Setup  menu is set to “Standard 1”, you can access the projector from a computer even if the projector is in standby mode.

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.

Note

fH (horizontal frequency) and fV (vertical frequency) may be displayed when unacceptable signal is input.

Menu

The present settings of the projector are displayed.

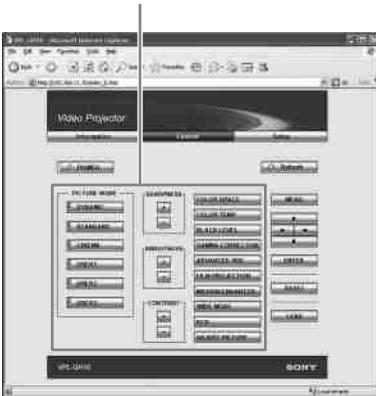
Operating the Projector

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 the Information

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, SNMP button and Reset button. These settings are mainly for professional use. Detailed information on Advertisement button and PJ Talk button are indicated by the PROTOCOL manual. For details on each function of “Advanced setting”, consult with your local dealer or qualified Sony personnel.

To reset the setting

Click the Reset button displayed in “Advanced setting.” The data set in “Setup” are reset to its factory preset value.

Notes

- The data input will be recorded in the memory of the projector.
- These data may become a personal information, depending on the content input. Therefore, it is recommended that you input content that cannot specify particular individuals.
- These data may be sent out through the network by “Advertisement,” “PJTalk” and “SNMP” functions.
- On disposal or transfer of the projector, it is strongly recommended that you delete the data recorded in the memory of the projector. On how to delete the data, see “To reset the setting.”

Others

This section describes how to solve the problems, how to replace the 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.	<ul style="list-style-type: none">→ The power may not turn on if you turn the power off with I/⏻ (ON/STANDBY) switch and turn it on again in a short time. After about 1 minute, turn the power on.→ Close the lamp cover securely, then tighten the screws securely. (☞ page 62)→ Close the filter holder securely. (☞ page 63)→ Check warning indicators. (☞ page 58)

Picture

Symptom	Cause and Remedy
No picture.	<ul style="list-style-type: none">→ Check that the proper connections have been made. (☞ page 18)→ Set the computer signal to output from an external monitor.→ Set the computer signal to output only to an external monitor.
The bright area of the picture may become unclear. (When video signal is input)	→ Switch the RGB dynamic range of the connected equipment to Full (0-255). If this adjustment is unavailable, adjust “Brightness” or “Contrast” in the Picture  menu of the projector. (☞ pages 40, 41)
The picture is too dark.	→ Adjust the “Contrast” or “Brightness” of the Picture  menu properly. (☞ pages 40, 41)
The picture is not clear.	<ul style="list-style-type: none">→ Adjust the focus. (☞ page 23)→ Condensation has accumulated on the lens. Leave the projector for about 2 hours with the power on.
The color of characters or the picture is not appropriate.	→ Select the desired color registration in “Panel Alignment” of Installation  menu. (☞ page 50)
Image is left on the screen. (image retention)	→ When high contrast non-moving images are displayed for a long period of time, there may be some image retention on the screen. This is only a temporary condition. Turning off the power for a while will eliminate the retained image.

On-screen display

Symptom	Cause and Remedy
On-screen display does not appear.	<ul style="list-style-type: none"> → Set “Status” in the Setup  menu to “On.” (☞ page 46) → Check if the ON/STANDBY indicator should light in green.
The model name does not disappear from the screen. Or else, the demo mode is displayed continuously.	<ul style="list-style-type: none"> → The display mode of the projector may be set at the time of purchase. Consult with your local dealer or qualified Sony personnel.

Remote control

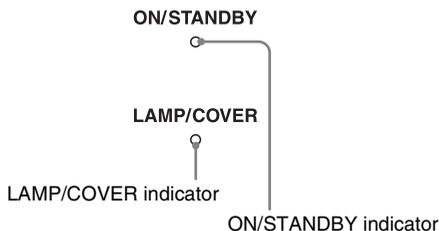
Symptom	Cause and Remedy
The remote control does not work.	<ul style="list-style-type: none"> → Batteries could be weak. Replace them with new batteries. (☞ page 11) → Insert the batteries with the correct polarities. (☞ page 11) → If there is a fluorescent lamp near the remote control detector, the projector may work improperly or inadvertently. → Set “IR Receiver” to “Front & Rear” on the Installation  menu. (☞ page 49)

Others

Symptom	Cause and Remedy
The fan is noisy.	<ul style="list-style-type: none"> → Check the setting of “Cooling Setting” in the Setup  menu. (☞ page 46) → Make sure that the room temperature is not too high. → Check the installation conditions. (☞ page 12) The number of fan rotation increases to maintain the product reliability of the projector’s components in a room, where the temperature is higher than normal. The fan noise becomes slightly louder. The approximate normal temperature is 25°C.
The lens shift cannot be adjusted.	<ul style="list-style-type: none"> → The lens shift cannot be adjusted over the range of movement. Adjust the lens shift within the range of movement. (☞ pages 14, 21)

Warning Indicators

The ON/STANDBY or LAMP/COVER indicator lights up or flashes if there is any trouble with your projector.



Symptom	Cause and Remedy
LAMP/COVER flashes in red. (A repetition rate of 2 flashes)	<ul style="list-style-type: none"> → Close the lamp cover securely, then tighten the screws securely. (☞ page 62) → Close the filter holder securely. (☞ page 63)
LAMP/COVER flashes in red. (A repetition rate of 3 flashes)	<ul style="list-style-type: none"> → The lamp has reached the end of its useful lifespan. Replace the lamp. (☞ page 61) → The lamp has reached a high temperature. Wait until the lamp cools, and then turn on the power again.
ON/STANDBY flashes in red. (A repetition rate of 4 flashes)	<ul style="list-style-type: none"> → The fan is broken. Consult with qualified Sony personnel.
ON/STANDBY flashes in red. (A repetition rate of 2 flashes)	<ul style="list-style-type: none"> → The internal temperature is unusually high. Check to ensure that nothing is blocking the ventilation holes or whether or not the projector is being used at high altitudes.
ON/STANDBY flashes in red. (A repetition rate of 6 flashes)	<ul style="list-style-type: none"> → Press the I/⏻ (ON/STANDBY) switch to turn on the projector. If the power is not turned on, disconnect the AC power cord, then confirm the ON/STANDBY lamp is turned off. After about 10 seconds, reconnect the AC power cord and turn on the power again. If the indicators still light up, the electrical system has a problem. Consult with qualified Sony personnel.

Note

When a warning indicator other than the above starts flashing, and the symptom persists even after carrying out the above methods, consult with qualified Sony personnel.

Message Lists

Note

If “Status” is set to “All Off” in the Setup  menu, the warning/caution messages are not displayed except for the message marked with an asterisk (*). (☞ page 46)

Warning messages

Message	Cause and Remedy
High temp.! Lamp off in 1 min.	<ul style="list-style-type: none"> → Turn off the power. → Check to ensure that nothing is blocking the ventilation holes. (☞ page 13)
Frequency is out of range!	<ul style="list-style-type: none"> → Frequency is out of range. Input a signal that is within the acceptable frequency range of the projector. (☞ page 67)
Please replace the Lamp/ Filter.	<ul style="list-style-type: none"> → It is time to replace the lamp. Replace the lamp. (☞ page 61) → Also, replace the air filter too. Restart cleaning the ventilation holes (intake). (☞ page 61) <p>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 61)</p> <p>Note</p> <p>To clear this message, press any button either on the remote control or the control panel of the projector once.</p>
Please clean the filter.	<ul style="list-style-type: none"> → It is time to clean the air filter. Clean the air filter. (☞ page 64) <p>Note</p> <p>To clear this message, press any button either on the remote control or the control panel of the projector once.</p>
Please clean the filter. Have you finished? Yes No*	<ul style="list-style-type: none"> → It is time to clean the air filter. Clean the air filter. (☞ page 64) → If you cleaned the air filter, select “Yes.” If you did not clean the air filter, select “No.” <p>Note</p> <p>This message is displayed even when “Status” is set to “All Off.”</p>
Projector temperature is high. Cooling Setting should be “High” if projector is being used at high altitude.	<ul style="list-style-type: none"> → Check to ensure that the ventilation holes on the unit are not covered. (☞ page 13) → When using the projector at high altitude, set the “Cooling Setting” to “High.” (☞ page 46) <p>Note</p> <p>When temperature inside the projector remains high, the “Cooling Setting” is switched to “High” in 1 minute, then the fan speed increases.</p>

Caution messages

Message	Cause and Remedy
	<ul style="list-style-type: none">→ No signal is input in the selected input. Check connections. (☞ page 18)
Not applicable!	<ul style="list-style-type: none">→ Press the appropriate button.→ The operation to be activated by the button is currently prohibited.
Feature not available on this model.	<ul style="list-style-type: none">→ The INPUT button on the remote control has been pressed. This button does not function on this model.

Replacing the Lamp and the Air Filter and Cleaning the Ventilation Holes (Intake)

Tools you need to get started:

- Projector Lamp LMP-H201 (Optional)
- Standard Phillips screwdriver
- Cloth (for scratch protection)

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.” appears on the screen, the lamp may be exhausted. Replace the lamp with a new one (not supplied) without delay.

Use an LMP-H201 Projector Lamp as the replacement lamp.

The air filter is supplied with the LMP-H201 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. Also clean the ventilation holes (intake).

Note

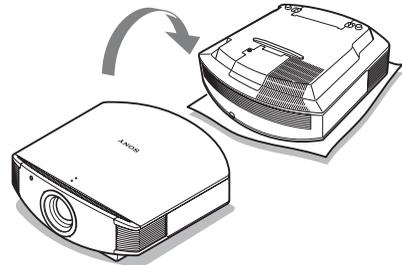
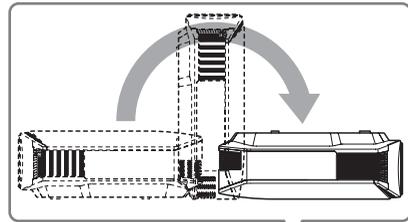
When “Status” is set to “All Off” in the Setup  menu, the message does not appear. (📖 page 46)

Cautions

- The lamp remains hot after the projector is turned off with the I/⏻ (ON/STANDBY) switch. If you touch the lamp, you may burn your fingers. When you replace the lamp, wait for at least 1 hour for the lamp to cool.
- Do not touch the glass surface of the replacement lamp. 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.
- When removing the lamp unit, make sure it remains horizontal, then pull straight up. Do not tilt the lamp unit. If you pull out the lamp unit while tilted and if the lamp breaks, the pieces may scatter, causing injury.

- When you remove the air filter, be careful not to let any dust fall into the projector.
- Replacing the air filter is crucial to maintain the good performance of the projector or to prevent malfunction to it. When a warning message for replacing the air filter appears, replace the air filter immediately. If “Status” is set to “All Off,” the message does not appear. (📖 page 46)

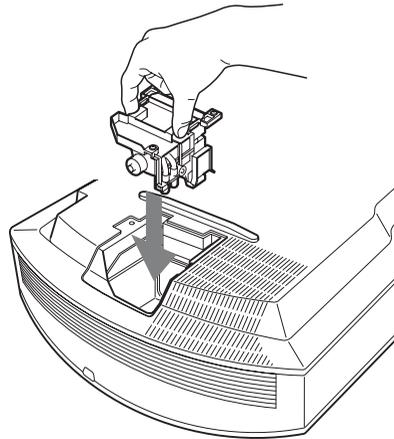
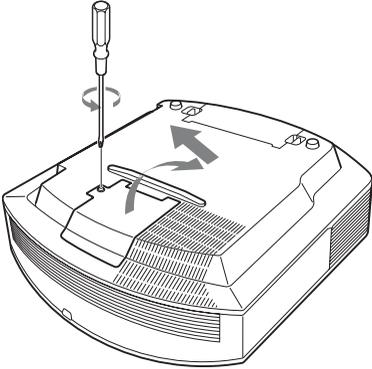
- 1 Turn off the projector and unplug the AC power cord.
- 2 When setting the projector on a flat surface such as a desk etc., put a cloth to prevent the surface from being scratched. Reverse the projector as illustrated, then place it on the cloth.



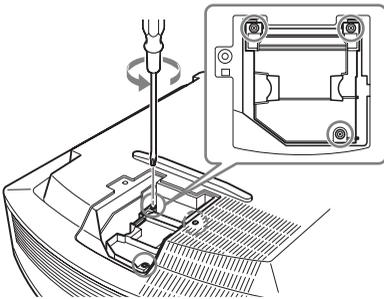
Notes

- When the lamp is damaged the broken pieces of the lamp may become scattered, if you do not reverse the projector. This may cause injury.
- Be sure that the projector is placed on a stable surface.

- 3** Loosen the screw on the lamp cover with a Phillips screwdriver, and then open the lamp cover.

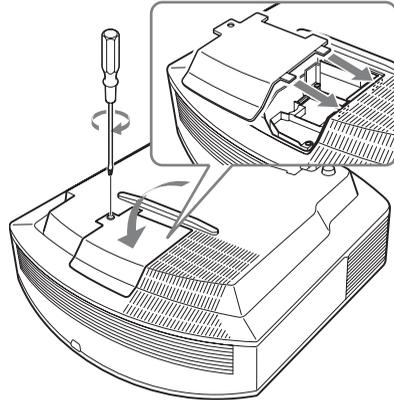


- 4** Loosen the 3 screws on the lamp with the Phillips screwdriver. Hold up the handle, then pull the lamp straight out.

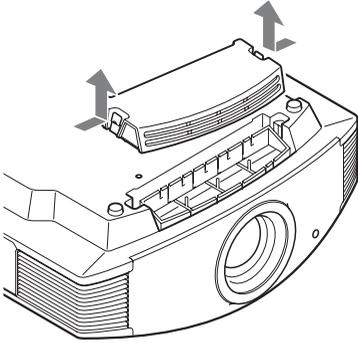


- 5** Hold the handle of the new lamp and push it in securely until it reaches the end, and then tighten the 3 screws.

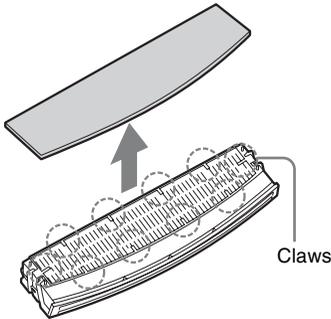
- Note**
Be careful not to touch the optical block inside the unit.
- 6** Close the lamp cover, then tighten the screws.



7 Remove the filter holder.



8 Remove the air filter.



9 Attach the new air filter so that it fits into the each claws (10 positions) on the filter holder.

Note

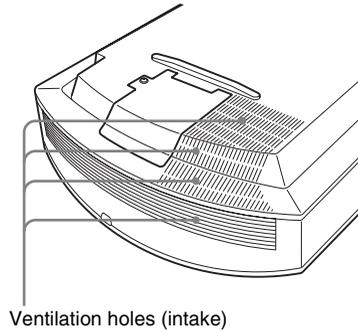
Attach the air filter aligning it with the shape of the filter holder.
Also, do not touch the fan after removing the air filter that is set deep inside the projector.

10 Attach the filter holder.

Note

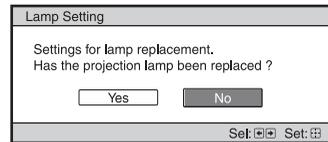
The projector will not turn on unless the filter holder is securely closed.

11 Wipe dust off the ventilation holes (intake) with a soft cloth.

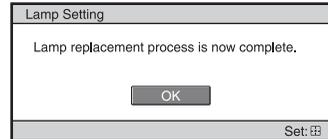


12 Place the projector back on its original position.

13 Turn on the projector, then select “Lamp Setting” on the Setup menu. The menu screen below will appear.



14 Select “Yes.”



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-H201 Projector Lamp for replacement. If you use lamps other than the LMP-H201, the projector may malfunction.

- Be sure to turn off the projector and unplug the power cord before replacing the lamp, then check the ON/STANDBY lamp has already been turned off.
- The projector will not turn on unless the lamp is securely installed in place.
- The projector will not turn on unless the lamp cover is securely closed.
- To cancel a message displayed on the screen, press either the button on the remote control or the one on the control panel on the projector.

Disposal of the used lamp For the customers in the USA

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Telecommunications Industry Association (www.eiae.org).

Cleaning the Air Filter

The air filter should be cleaned every 1,000 hours. This value varies depending on the environment or how the projector is used. 1,000 hours are approximate.

When “Please clean the filter.” appears on the screen, you should clean the air filter. After washing the air filter with a mild detergent solution, dry it in a shaded place.

Notes

- When you clean the air filter, make sure you do not damage it.
- For details on how to attach and remove the air filter, see Steps 7 to 10 in “Replacing the Lamp and the Air Filter and Cleaning the Ventilation Holes (Intake).” (☞ page 63)
- When you remove the air filter, be careful not to let any dust fall into the projector.
- Cleaning the air filter is crucial to maintain the good performance of the projector or to prevent malfunction to it. When a warning message for cleaning the air filter appears, clean the air filter immediately.

Cleaning and the Screen of the Projector

Cleaning the cabinet

- To remove dust from the cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide.
- Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.

Black points and bright points (red, blue, or green) on the screen

The projector is manufactured using high-precision technology.

You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the projector.

This is a normal result of the manufacturing process and does not indicate a malfunction.

Specifications

System

Projection system	SXRD panel, 1 lens, projection system
LCD panel	0.61-inch (15.4 mm) SXRD panel 6,220,800 pixels (2,073,600 pixels × 3)
Lens	1.6 times zoom lens (motorized) f=18.5 mm to 29.6 mm F2.5 to F3.4
Lamp	200 W Ultra High Pressure Lamp
Projection picture size	40 inches to 300 inches (1,016 mm to 7,620 mm) (measured diagonally)
Acceptable video signals	480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p
Acceptable computer signals	fH: 19 kHz to 72 kHz fV: 48 Hz to 92 Hz Maximum resolution 1920 × 1080 For details, see "Preset Signals." (☞ page 67)

Input

DVI-D	Digital RGB
REMOTE	RS-232C: D-sub 9-pins (female)
NETWORK	RJ-45 10BASE-T/100BASE-TX

General

Dimensions	470 mm × 179.2 mm × 482.4 mm (18 ⁵ / ₈ × 7 ¹ / ₈ × 19 inches) (w/h/d)
Mass	Approx. 12 kg (26 lb 8 oz)
Power requirements	AC 100 V to 240 V, 3.2 A to 1.4 A, 50/60 Hz
Power consumption	Max. 320 W Standby mode: 9 W Standby mode (low): 0.5 W
Operating temperature	5°C to 35°C (41°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-PJW60 (1)
Size AA (R6) manganese batteries (2)
AC power cord (1)
Operating Instructions (1)
CD-ROM (ImageDirector3) (1)

Design and specifications are subject to change without notice.

Optional accessory

Projector Lamp LMP-H201 (for replacement)

Note

Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.

Warning on power connection

Use a power cord for your local power supply.

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

* 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 (resolution)		fH (kHz)	fV (Hz)
3	480/60i	480/60i (720 × 480i)	15.734	59.940
4	576/50i	576/50i (720 × 576i)	15.625	50.000
5	480/60p	480/60p (720 × 480p)	31.470	60.000
6	576/50p	576/50p (720 × 576p)	31.250	50.000
7	1080/60i	1035/60i (1920 × 1035i) 1080/60i (1920 × 1080i)	33.750	60.000
8	1080/50i	1080/50i (1920 × 1080i)	28.130	50.000
10	720/60p	720/60p (1280 × 720p)	45.000	60.000
11	720/50p	720/50p (1280 × 720p)	37.500	50.000
12	1080/60p	1080/60p (1920 × 1080p)	67.500	60.000
13	1080/50p	1080/50p (1920 × 1080p)	56.260	50.000
14	1080/24p	1080/24p (1920 × 1080p)	26.973	23.976
26	640 × 480	VESA 60	31.469	59.940
32	800 × 600	VESA 60	37.879	60.317
36	832 × 624	Mac 16	49.724	74.550

Memory No.	Preset signal (resolution)		fH (kHz)	fV (Hz)
37	1024 × 768	VESA 60	48.363	60.004
45	1280 × 960	VESA 60	60.000	60.000
47	1280 × 1024	VESA 60	63.974	60.013
50	1400 × 1050	SXGA +	65.317	59.978
55	1280 × 768	1280 × 768/60	47.776	59.870

Input Signals and Adjustable/Setting Items

The items in the menus available to adjust differ depending on the input signal. The following tables indicate them.

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

Picture menu

Item	Preset memory numbers	
	3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14	26, 32, 36, 37, 45, 47, 50, 55
Advanced Iris	●	●
Lamp Control	●	●
Film Projection	●	–
Motion Enhancer	●	–
Contrast	●	●
Brightness	●	●
Color	●	–
Hue	●	–
Color Temp.	●	●
Sharpness	●	–
NR	● (preset memory numbers 3, 4, 7, 8 only)	–
MPEG NR	●	●
Film Mode	● (excluding preset memory number 14)	–
Black Level Adj.	●	–
Gamma Correction	●	●
Color Space	●	●
RCP	●	●

● : Adjustable/can be set

– : Not adjustable/cannot be set

Screen menu

Item	Preset memory numbers	
	3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14	26, 32, 36, 37, 45, 47, 50, 55
Wide Mode	●	● * ²
Over Scan	●	–
Screen Area * ¹	● (preset memory numbers 7, 8, 12, 13, 14 only)	–
V Center * ³	●	●
Vertical Size * ³	●	–
Shift	–	●

● : Adjustable/can be set

– : Not adjustable/cannot be set

*¹: The setting can be made only when “Wide Mode” is set to “Full” and “Over Scan” is set to “On” in the Screen  menu.

*²: If the input signal is from a computer, the setting cannot be made when the aspect ratio is 16:9 or wider.

*³: The setting can be made only when “Zoom” is selected in “Wide Mode.”

Note

When connecting a cable, check the type of the signal in the Information  menu ( page 52), and check items that are adjustable/can be set.

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