SONY®

Video Projector

Operating Instructions

Before operating the unit, please read this manual and supplied Quick Reference Manual thoroughly and retain them for future reference.

VPL-VW675ES



Table of Contents

Location of Controls

Front/Right Side	4
Rear/Left Side/Bottom	5
Remote Control	6

Connections and Preparations

Installing the Unit	7
Adjusting the Picture Position	8
Connecting to Video Equipment or a	
Computer 1	3

Projecting

5
5
6
6
7
0
9
2

Using the Menus

Operation through the Menus 23
Picture Menu25
Advanced Picture Menu 31
Screen Menu 32
Setup Menu 34
Function Menu
Items Locked by Settings
Lock
Installation Menu 39
Information Menu 42
About the Preset Memory 42

Using Network Features

Displaying the Control Window of the
Unit with a Web Browser43
Operating the Control Window44
Switching the Page44
Setting the Access Limitation44
Confirming the Information
Regarding the Unit45

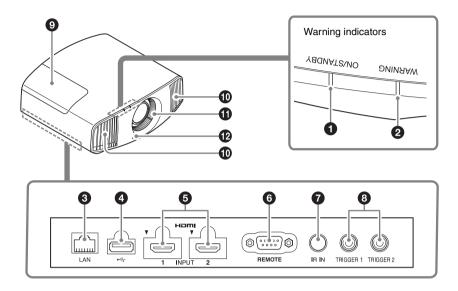
Error Handling

Troubleshooting	46
Warning Indicators	49
Message Lists	50

Others

Updating the Software	.51
About HDR (high dynamic range)	.51
About the x.v.Color	.51
About the simulated 3D feature	.51
Replacing the Lamp	.52
Cleaning	. 55
Specifications	
Preset Signals	.57
Input Signals and Adjustable/	
Setting Items	.59
Compatible 3D Signals	.60
3D Signals and Adjustable/Settin	ıg
Items	.60
Aspect Mode	. 62
Motionflow	.63
Storage Conditions of Adjustable	e/
Setting Items	.63
Projection Distance and Lens Shift	
Range	.65
Dimensions	.69
NOTICES AND LICENSES	
FOR SOFTWARE USED IN THIS	S
PRODUCT	.72

Front/Right Side



Warning indicators

- ON/STANDBY indicator (page 49)
- **2** WARNING indicator (page 49)

Connectors

- LAN connector (page 43)
- **4** USB connector (page 51)
- 6 HDMI 1/HDMI 2 connector (page 13)

6 REMOTE connector

Connects to a computer, etc. for remote control.

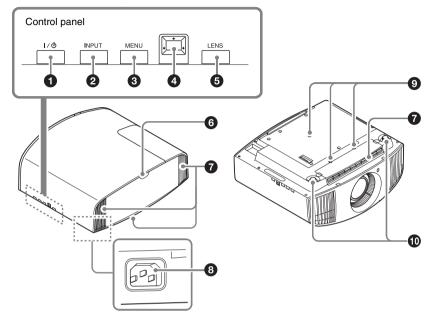
- IR IN connector Inputs signals to control the unit.
- TRIGGER 1/TRIGGER 2 connector (page 39)

Others

- Lamp cover (page 52)
- Wentilation holes (exhaust)
- **W** Ventilation holes (intake) (page 54)
- Remote control detector
 (page 8)

Rear/Left Side/Bottom

The buttons on the control panel have the same names as those on the remote control.



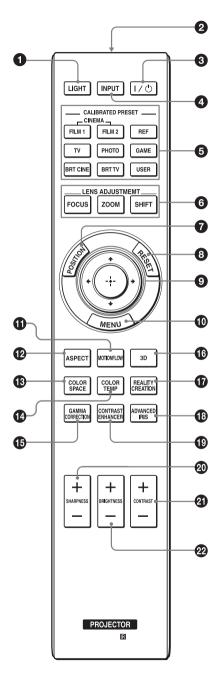
Control panel

- I/⁽⁾ (ON/STANDBY) button (page 8)
- **2** INPUT button (page 15)
- MENU button (page 23)
- **IENS** button (page 8)

Others

- Remote control detector (page 8)
- Ventilation holes (intake) (page 54)
- AC IN socket (page 8)
- Projector suspension support attaching hole (page 70)
- Front feet (adjustable) (page 11)

Remote Control



LIGHT button

Illuminates the buttons on the remote control.

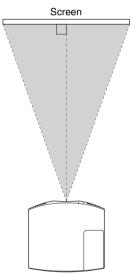
- Infrared transmitter
- ❸ I/⁽⁾ (ON/STANDBY) button (page 8)
- INPUT button (page 15)
- G CALIBRATED PRESET buttons (page 22)
- **6** LENS ADJUSTMENT buttons (page 9)
- **POSITION** button (page 17)
- **③** RESET button (page 24)
- Image States (arrow)/ Image States (enter) buttons (page 23)
- MENU button (page 23)
- **1** MOTIONFLOW button (page 27)
- ASPECT button (page 19)
- COLOR SPACE button (page 30)
- COLOR TEMP button (page 27)
- GAMMA CORRECTION button (page 28)
- ③ 3D button (page 16)
- REALITY CREATION button (page 26)
- ADVANCED IRIS button (page 26)
- CONTRAST ENHANCER button (page 26)
- SHARPNESS +/- button (page 28)
- CONTRAST +/- button (page 27)
- BRIGHTNESS +/- button (page 27)

Connections and Preparations

Installing the Unit

The installation distance between the unit and a screen varies depending on the size of the screen or whether or not you use the lens shift features. Install this unit so that it fits the size of your screen. For details on the distance between the unit and the screen (the projection distance) and the size of projected video, see "Projection Distance and Lens Shift Range" (page 65).

1 Position the unit so that the lens is parallel to the screen.



Top view

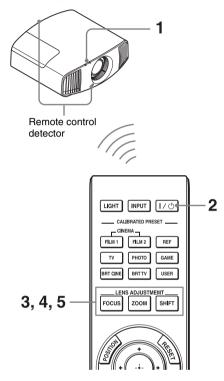
2 Project an image on the screen and adjust the picture so that it fits the screen (page 8).

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 unit or the zooming magnifications. This is not a malfunction of the unit.

Adjusting the Picture Position

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



Tips

- The I/U (ON/STANDBY), INPUT, MENU, and ↑/↓/←/→/□ (joystick) buttons on the side panel of the unit function the same as those on the remote control. The LENS button functions in the same way as the LENS ADJUSTMENT (FOCUS, ZOOM, SHIFT) buttons of the remote control.
- When adjusting the lens, each time you press the LENS button on the unit, the lens adjustment function switches between "Lens Focus," "Lens Zoom" and "Lens Shift."

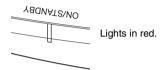


Note

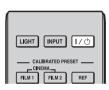
Depending on the installation location of the unit, you may not be able to control it with the remote control. In this case, point the remote control at the remote control detector of the unit or the screen.

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

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



2 Press the I/() (ON/STANDBY) button to turn on the unit.



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

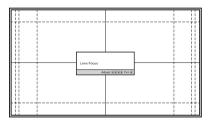


Flashes in green for tens of seconds and then lights in green.

3 Adjust the focus.

Press the LENS ADJUSTMENT (FOCUS) button to display the Lens Focus adjustment window (test pattern). Then adjust the focus of the picture by pressing the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons.





Tips

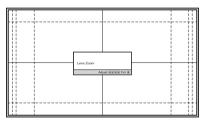
- When "Lens Control" is set to "Off" on the Installation menu, you cannot adjust the focus, the picture size or the proper position by pressing the FOCUS, ZOOM or SHIFT buttons (page 39).
- When "Test Pattern" is set to "Off" on the Function immenu, the test pattern is not displayed (page 37).

Note

Adjust the lens by using buttons on the remote control or the control panel of the unit. Never make adjustments by directly turning the lens with your hands, which may cause damage or malfunction to the unit.

- **4** Adjust the picture size.
 - Press the LENS ADJUSTMENT (ZOOM) button to display the Lens Zoom adjustment window (test pattern). 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 $\checkmark/$ \leftarrow . 5 Adjust the picture position. Press the LENS ADJUSTMENT (SHIFT) button to display the Lens Shift adjustment window (test pattern). Then adjust to the proper position of the picture by pressing the ↑/↓/←/→ buttons.





Тір

Whenever you press the \bigoplus button, the test pattern disappears.

Note

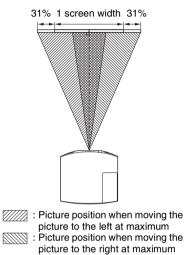
When adjusting the window position, do not touch the lens unit, otherwise your fingers may be pinched by the moving parts.

To adjust the horizontal position

Press ←/→.

The picture projected on the screen moves right or left by a maximum of 31% of the screen width from the center of the lens.

Top view



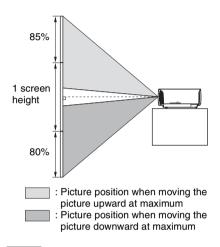
Press the RESET button on the remote control while the Lens Shift adjustment window is displayed, the horizontal position returns to the center of the lens (factory default position). The zoom and focus are not changed.

To adjust the vertical position

Press **↑**/**↓**.

The picture projected on the screen moves up by a maximum of 85% or moves down by a maximum of 80% of the screen height from the center of the lens.

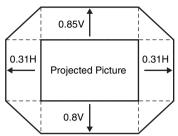
Side view



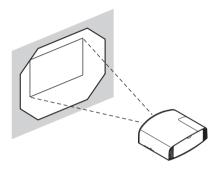
Note

The range to move the picture projected on the screen can be adjusted only within the octagon area illustrated below. For details, see "Projection Distance and Lens Shift Range" (page 65).

Range of movement of the projected picture

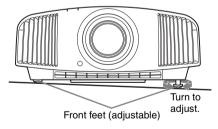


H: Width of the projected picture V: Height of the projected picture



To adjust the tilt of the installation surface

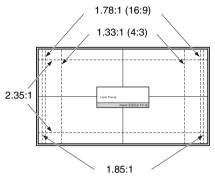
If the unit is installed on an uneven surface, use the front feet (adjustable) to keep the unit level.



Notes

- If the unit is tilted up or down, the projected image may be trapezoidal.
- Be careful not to catch your finger when turning the front feet (adjustable).

Lens adjustment window (test pattern)



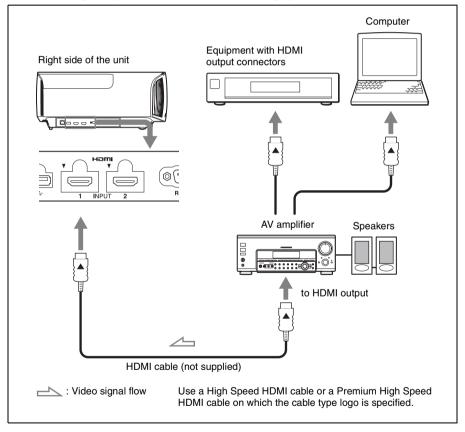
The dashed lines show the screen sizes of each aspect ratio.

Connecting to Video Equipment or a Computer

You can enjoy high picture quality by connecting a DVD player/recorder, Blu-ray Disc player/recorder, or PlayStation[®] equipped with HDMI output to the HDMI input of the unit.

When making connections, be sure to do the following:

- Turn off all equipment before making any connections.
- Use the proper cables for each connection.
- Insert the cable plugs properly; 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.



Notes

- Use a High Speed HDMI cable or a Premium High Speed HDMI cable. With a standard HDMI cable, images of 1080p, DeepColor, 3D video and 4K video may not be displayed properly.
- When connecting an HDMI cable to the unit, make sure the ▼ mark on the upper part of the HDMI input of the unit and the ▲ mark on the connector of the cable is set at the same position.
- If the picture from equipment connected to the unit with an HDMI cable is not correct, check the settings of the connected equipment.
- 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 monitor. 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.

Projecting

Projecting the Picture

- **1** Turn on both the unit and the equipment connected to the unit.
- **2** Press INPUT to display the input palette on the screen.

CALIBRATED PRESET CINEMA FILM 1 FILM 2 REF

3 Select the equipment from which you want to display images.

Press INPUT repeatedly or press $\uparrow/\downarrow/$ (\div) (enter) to select the equipment from which to project.



Example: To view the picture from the video equipment connected to the HDMI 1 connector of this unit.

Тір

When "Status" is set to "Off" on the Setup amenu, the input palette does not appear. Press the INPUT button to switch between input terminals in sequence.

Turning Off the Power

- Press the I/⁽¹⁾ (ON/STANDBY) button.
 A message "POWER OFF?" appears on the screen.
- 2 Press the I/(¹) (ON/STANDBY) button again before the message disappears. The ON/STANDBY indicator flashes in green and the fan continues to run to reduce the internal heat.

The fan stops and the ON/STANDBY indicator changes from flashing green to remaining red.

The power is turned off completely, and you can disconnect the AC power cord.

Note

Never disconnect the AC power cord while the indicator is flashing.

Тір

You can turn off the unit by holding the I/\bigcirc (ON/STANDBY) button for about 1 second, instead of performing the above steps.

Watching 3D Video Images

You can enjoy powerful 3D video images, such as from 3D games and 3D Blu-ray Discs, using the optional Active 3D Glasses (TDG-BT500A).

 Turn on the HDMI equipment for 3D compatibility connected to the unit, then play the 3D content.
 For details on how to play 3D content, refer to the operating instructions for the connected equipment.

2 Turn on the unit and project the 3D video image onto the screen. For details on how to project the image, see "Projecting the Picture" (page 15).

3 Turn on the 3D glasses, and then put them on so that they fit comfortably. For details on how to use the 3D glasses, see "Using the 3D Glasses" (page 16).

Tips

- The factory default setting for "2D-3D Display Sel." is "Auto" to allow projecting 3D video images automatically when the unit detects 3D signals.
- To convert 3D video images to 2D video images, set "2D-3D Display Sel." to "2D" (page 36).

Notes

- It may not be possible to display 3D video image, depending on the type of signal. Set the "2D-3D Display Sel." to "3D," and "3D Format" to "Side-by-Side" or "Over-Under" to suit the format of the 3D content you want to watch (page 36).
- Use the 3D glasses within the communication range (page 16).
- There are differences in perception of 3D video images among individuals.
- When the temperature of the usage environment is low, the 3D effect may be diminished.

Adjusting/Setting the 3D functions

You can adjust/set the 3D functions by pressing the 3D button on the remote control or with the "3D Settings" of the Function the menu. For details, see "3D Settings" (page 36).

Using the 3D Glasses

- Turn on the 3D glasses, and register them on the unit.
 For details on how to register the 3D glasses, refer to the operating instructions supplied with the 3D glasses.
- **2** Put on the 3D glasses.
- **3** Turn toward the screen.

Precautions for use

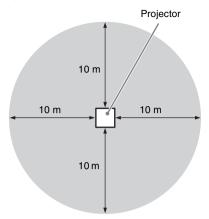
Misoperation may occur if:

- The viewing position is too far from the projector
- There are other communication devices, such as a wireless LAN (IEEE802.11 b/g/ n) or a microwave with a bandwidth of 2.4 GHz, near the unit

3D glasses communication range

Figure below indicate the communication range of the 3D glasses. If you try to watch 3D video images from a distance greater than the communication range or install the unit outside the communication range, the 3D glasses may not be able to display the images properly. Also, the distance varies depending on the environment of the room and installation environment of the unit.

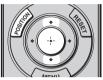
Top or side view



Using the Picture Position

You can store up to five combinations of lens settings (focus, picture size, picture position), aspect ratio, and blanking. These settings can be recalled. In the factory preset setting, the Picture Position is not stored.

1 Press POSITION.



The Picture Position selecting palette is displayed.



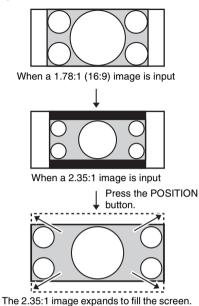
2 Press POSITION repeatedly, or press $\frac{1}{\sqrt{1}}$ to select the position. The settings of the position selected is

recalled. Store or delete lens settings, aspect ratio, and blanking in the "Picture Position" of the Screen emenu (page 32).

The position where the lens settings, aspect ratio, and blanking are not stored is displayed as "---."

Image of the lens moving

In the example below, the images with aspect ratio of 1.78:1 (16:9) and 2.35:1 are projected on a 2.35:1 screen.



Notes

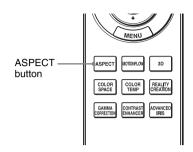
- After you have selected and confirmed the lens position, the lens starts to move. Do not touch, or place anything near, the lens, otherwise it may cause injury or a malfunction.
- If you press any button on the remote control or the unit while the lens is moving, the lens stops. In this case, select the lens position again or adjust the lens manually.
- The Picture Position function is not guaranteed to reproduce the lens settings precisely.
- When you use the subtended screen angle of two or more aspects using lens zoom, install the unit within the specified parameters referring to "Projection distance" (page 66). With some setting positions, the range of lens shift may be restricted, even though the unit is installed within the specified parameters.

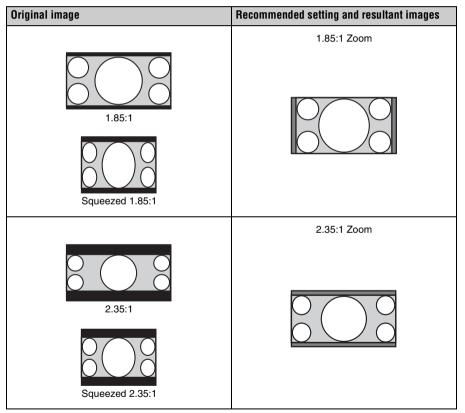
Selecting the Aspect Ratio According to the Video Signal

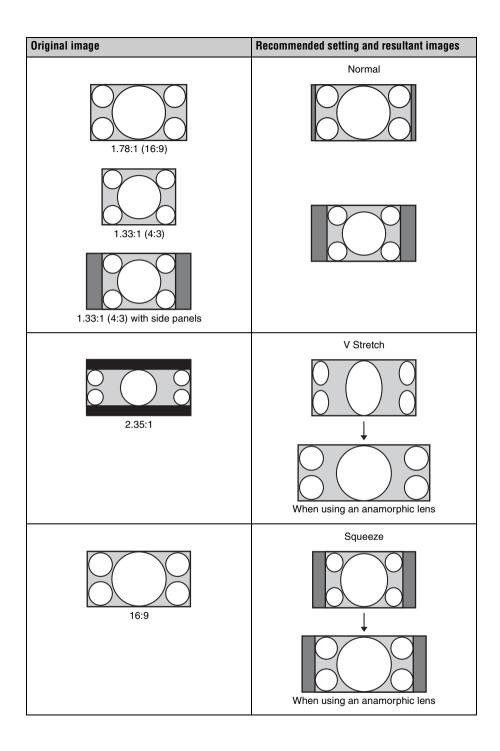
You can select an aspect ratio best suited for the video signal received.

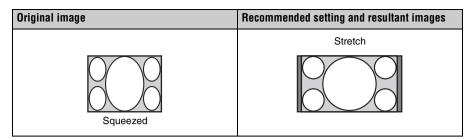
Press ASPECT.

Each time you press the button, you can select the "Aspect" setting. You can also select it using the menu (page 33).









Notes

- Selectable aspect modes vary depending on the input signal (page 62).
- The aspect cannot be selected for an input signal from a computer, or an input signal with a resolution of 4096 × 2160 (page 57).

Notes on switching the "Aspect" setting

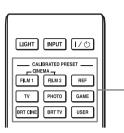
- Select the aspect mode taking into account that changing the aspect ratio of the original picture will provide a different look from that of the original image.
- Note that if the unit is used for profit or for public viewing, modifying the original picture by switching the aspect may constitute an 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 video source or room conditions.

You can save and use different preset modes for 2D/3D respectively.

Press one of the CALIBRATED PRESET buttons.



CALIBRATED PRESET buttons

Setting items	Description
CINEMA FILM 1	Picture quality suited to reproducing the highly dynamic and clear images typical of master positive film.
CINEMA FILM 2	Picture quality suited to reproducing the rich tone and color typical of a movie theater, based on the Cinema Film 1.
REF	A picture quality setup suitable for when you want to reproduce faithfully the original image quality, or for enjoying image quality, without any adjustment.
TV	Picture quality suited for watching TV programs, sports, concerts, and other video images.
РНОТО	Ideal for projecting still images taken with a digital camera.
GAME	Picture quality suited to gaming, with well-modulated colors and fast response.
BRT CINE	Picture quality suited for watching movies in a bright environment, such as a living room.
BRT TV	Picture quality suited for watching TV programs, sports, concerts, and other video images in a bright environment, such as a living room.
USER	Adjusts the picture quality to suit your taste then saves the setting. The factory default setting is the same as "REF."

Using the Menus

Note

The menu displays used for the explanation may be different from the actual menu display.

Operation through the Menus

The unit is equipped with an on-screen menu for making various adjustments and settings. If you select an item name followed by an arrow (\blacktriangleright) , the next menu window with setting items appears.

1 Press MENU.

The menu window appears.

Picture	Э	
H	Calib. Preset	Cinema Film 1
	Reset	
	Reality Creation	On
	Cinema Black Pro	•
	Motionflow	Smooth High
	Contrast	90
1	Brightness	50
-	Color	50
	Hue	50 — Ú
\	Color Temp.	D65
3	Sharpness	10 -0
	Expert Setting	•
0		
		Sel: 🔹 Set: 🗄 Exit: MENU

2 Press \uparrow/\downarrow to select a menu item, and press \rightarrow or (\div) .

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

Setup				
	Status	On		
	Language	Englis	h	
	Menu Position	Bottor	n Left	
	High Altitude Mode	Off		
	Remote Start	Off		
	Network Management	Off		
a	Power Saving	Stand	by	
	Lamp Setting			
3				
0				
	Sel: 🕂 🔻	Set: 🕀	Back: \star	Exit: MENU

Press ↑/↓ to select an item you want to set or adjust and press → or ⊕. The setting items are displayed in a popup menu, in a setting menu, in an adjustment menu or in the next menu window.

Pop-up menu

Setting items			
Setup			_
	Status RLanguage	On English	\exists
a ;	Menu Position High Altitude Mode	Bottom Left Off	3
æ	Remote Start Network Managemer	On	
÷	Power Saving Lamp Setting		3
	Lamp boung		_
3			
0			
		Sel: 🔹 Set: 🗄 Ba	ck: 🗲

Setting menu

Calib. Preset				
Cinema Film	1			
Cinema Film	2			
Reference				
TV				
Photo				
Game				
Bright Cinem	a			
Bright TV				
User				
Sel: 🕶 🗧	Set: 🖽			

Adjustment menu

Contrast	
Min Max	
50	
	Adjust: 💌 Set: 🗄

Next menu window



4 Make the setting or adjustment of an item.

When changing the adjustment level

Press $\uparrow \rightarrow$ to increase the value, and press $\downarrow \rightarrow$ to decrease the value. Press \bigoplus to store the setting and restore the original menu screen.

When changing the setting

Press \uparrow/\downarrow to change the setting. Press \oplus to restore the original screen. You can restore the original screen using \leftarrow depending on the selected item.

To clear the menu

Press MENU.

To reset the picture that has been adjusted

Select "Reset" from the Picture 🖪 menu.



When the screen display appears, select "Yes" using \leftarrow and press \oplus .

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

"Reality Creation," "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, or the adjustment menu.

Press 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.

Pictur	9	
	Calib. Preset	Cinema Film 1
	Reset	
	Reality Creation	On
	Cinema Black Pro	4
	Motionflow	Smooth High
	Contrast	90
1	Brightness	50
<u> </u>	Color	50
	Hue	50
	Color Temp.	D65
3	Sharpness	10 -0
	Expert Setting	•
0		
	Sel: া 🛡	Set: Back: Exit: MENU

Note

These items may not be adjustable or configurable, depending on the type of input signal. For details, see "Input Signals and Adjustable/Setting Items" (page 59).

Item names in brackets represent those printed on the remote control.

Setting items	Description
Calib. Preset [CALIBRATED PRESET]	 You can select the picture viewing mode that best suits the type of video source or the environment. You can save and use different preset modes for 2D/3D respectively. Cinema Film 1: Picture quality suited to reproducing the highly dynamic and clear images typical of master positive film. Cinema Film 2: Picture quality suited to reproducing the rich tone and color typical of a movie theater, based on the Cinema Film 1. Reference: A picture quality setup suitable for when you want to reproduce faithfully the original image quality, or for enjoying image quality, without any adjustment. TV: Picture quality suited for watching TV programs, sports, concerts, and other video images. Photo: Ideal for projecting still images taken with a digital camera. Game: Picture quality suited for watching movies in a bright environment, such as a living room. Bright Cinema: Picture quality suited for watching TV programs, sports, concerts, and other video images in a bright environment, such as a living room. Bright TV: Picture quality suited for watching TV programs, sports, concerts, and other video images in a bright environment, such as a living room. User: You can adjust the picture quality to suit your taste, and save the setting. The factory default setting is the same as "Reference."
Reset	Resets all currently selected Calib. Preset mode settings to their default values (page 24).
	Tip Reset does not affect settings saved for items of "Color Temp."

Setting items	Description
Reality Creation [REALITY CREATION]	Adjusts the detail and noise processing of images. (Super-resolution function) On: Adjusts the settings of "Reality Creation." Database: Select "Normal" or "Mastered in 4K." "Mastered in 4K" provides image quality suitable for Blu-ray Disc [™] "Mastered in 4K" releasing from Sony Pictures Home Entertainment. Resolution: When you increase the setting value, the texture and detail of the picture become sharper. Noise Filtering: When you increase the setting value, the noise (picture roughness) becomes less prominent. Test: On/Off: Changes "On" and "Off" at a certain frequency to check the effect of "Reality Creation."
	Tip The display position of status during the test works together with the "Menu Position" setting (page 34). Off: The "Reality Creation" function is not applied.
Cinema Black Pro	
Advanced Iris [ADVANCED IRIS]	 Dynamic Control: Adjusts the range of movement of the iris (aperture). Full: Automatically optimizes the iris (aperture) and signal processing according to the brightness level of the input source. This results in a bright and high contrast image. Limited: Provides a slower movement of the iris (aperture) and lower brightness than "Full," making the picture quality suitable for viewing in a dark room. Off: The "Dynamic Control" function is not applied. Brightness: The higher the setting, the brighter the picture. The lower the setting, the darker the picture.
	Tip After adjusting "Brightness," set "Dynamic Control" according to the brightness of the room and the picture itself.
Contrast Enhancer [CONTRAST ENHANCER]	Corrects the level of bright and dark parts automatically to optimize contrast according to a scene. Increases image sharpness and makes image dynamic. High/Middle/Low: You can adjust the contrast enhancer. Off: The contrast enhancer function is not applied.
Lamp Control	Switches the lamp output. High: Increases the brightness, and projects brighter images. Low: Decreases the brightness, and enhances blacks by minimizing brightness.
	Tip Setting "Low" reduces fan noise, while also reducing energy consumption for longer lamp life.

Setting items	Description
Motionflow [MOTIONFLOW]	 Impulse: Reproduces original picture quality. Provides cinema-like picture, which may flicker. Combination: Reduces motion blur while maintaining brightness for high-speed picture content. Smooth High: Provides smoother picture movement; especially effective for film-based content. Smooth Low: Provides smoother picture movement for standard use. True Cinema: Images, such as a movie created in 24 frames per second, are reproduced at the original framerate. Off: The "Motionflow" function is not applied.
	 Tips Select "Off" if the selected "Smooth High," "Smooth Low," "Impulse," "Combination," or "True Cinema" results in a distorted picture. Depending on the picture content, you may not see the effect visually even if you have changed the settings.
Contrast [CONTRAST]	Adjusts the contrast. Higher values increase the sharpness in images, while lower values decrease the sharpness. You can make adjustments by pressing the CONTRAST +/- on the remote control. When the HDR signal is input with "On" or "Auto" set for "HDR," "Contrast(HDR)" appears instead of "Contrast."
Brightness [BRIGHTNESS]	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.
Color	Adjusts the color density. The higher the setting, the greater the intensity. The lower the setting, the lower the intensity.
Hue	Adjusts the color tone. The higher the setting, the more greenish the picture becomes. The lower the setting, the more reddish the picture becomes.
Color Temp. [COLOR TEMP]	Adjusts the color temperature. D93: Equivalent to 9,300 K color temperature normally used in TVs. Gives white colors a blue tint. D75: Equivalent to 7,500 K color temperature used as an ancillary standard illuminant. Gives a neutral tint between "D93" and "D65." D65: Equivalent to 6,500 K color temperature used as a standard illuminant. Gives white colors a red tint. D55: Equivalent to 5,500 K color temperature used as an ancillary standard illuminant. Gives white colors an even redder tint. Custom 1 to 5: Enables you to adjust, set, and store your favorite color temperature. The factory default settings are as follows. Custom 1: Same as "D93" color temperature setting. Custom 3: Same as "D55" color temperature setting. Custom 4: Same as "D55" color temperature setting. Custom 5: Setting that prioritizes brightness. Tim
	Tip You can adjust each item to a color temperature according to your preference.

Setting items	Description	
Sharpness [SHARPNESS]	Sharpens the outline of the picture, or reduces the noise. The higher the setting, the sharper the picture. The lower the setting, the softer the picture, thus reducing the noise. You can make adjustments by pressing the SHARPNESS +/- on the remote control.	
Expert Setting		
NR (Noise Reduction)	Reduces the roughness or noise of the picture. Auto: Detects the noise level to reduce the roughness or noise of the picture automatically. High/Middle/Low: Select a setting according to the roughness or noise of the input signal source. Off: The NR (noise reduction) function is not applied.	
	Tip The noise level may not be detected accurately with "Auto" depending on the input signal source. If the picture is unacceptable with "Auto," select a setting from among "High," "Middle," "Low" or "Off."	
MPEG NR (MPEG Noise Reduction)	Reduces block noise and mosquito noise, in particular in digital signals Auto: Detects the noise level to reduce the block noise and mosquito noise of the picture automatically. High/Middle/Low: Select a setting according to the block noise and mosquito noise of the input signal source. Off: The MPEG NR (MPEG noise reduction) function is not applied.	
	Tip The noise level may not be detected accurately with "Auto" depending on the input signal source. If the picture is unacceptable with "Auto," select a setting from among "High," "Middle," "Low" or "Off."	
Smooth Gradation	 Smooths the gradation of the flat parts of images. High/Middle/Low: You can adjust the smooth gradation effect. Off: The smooth gradation function is not applied. 	
Film Mode	According to the film source you have selected, make a setting for playback. Auto: Suitable for reproducing the original picture movement. Normally, set this to "Auto." Off: Plays back the picture in progressive format without detecting video signals automatically.	
Gamma Correction [GAMMA CORRECTION]	Adjusts the response characteristics of the tone of the picture. Select a favorite tone from 10 options. 1.8: Bright Produces a brighter picture overall. 2.0 2.1 2.2 2.4 2.6: Dark Produces a darker picture overall. Gamma 7: Simulates the gamma curve of film. Gamma 8: Increases the sharpness in images. Select this when you watch in a bright environment, such as a living room. Gamma 9: Produces a brighter picture than Gamma 8. Gamma 10: Increases the sharpness in images. Select this when you watch TV programs, etc., in a bright environment, such as a living room Off: The "Gamma Correction" function is not applied.	

Setting items	Description		
Color Correction	 On: Adjusts Hue, Saturation or Brightness of the selected colors. Repeat steps ① and ② described below to specify the target color. ① Press ↑/↓ to select "Color Select," then press ←/→ to select the color you want to adjust among "Red," "Yellow," "Green," "Cyan," "Blue" and "Magenta." 		
	Hue: 0 O Saturation: 0 O Brightness: 0 O Sel: 9 Set: (#)		
	 ② Press ↑/↓ to select "Hue," "Saturation" or "Brightness," then adjust them to suit your taste using ←/→ while watching the projected picture. Off: The "Color Correction" effect is not applied. 		
Clear White	Emphasizes vivid whites. High/Low: You can adjust the "Clear White" effect. Off: The "Clear White" effect is not applied.		
x.v.Color	Set this item when connecting the unit with equipment that supports x.v.Color and playing back an x.v.Color video signal. On: You can play back an x.v.Color video signal. Off: The "x.v.Color" function is not applied. For details on x.v.Color, see "About the x.v.Color" (page 51).		
	Tip Setting x.v.Color to "On" disables gamma adjustment.		
HDR	Sets how to play back HDR content. Auto: Distinguishes HDR content automatically and applies the optimal picture quality. When an input signal supports BT.2020, the "Color Space" is set to "BT.2020" automatically. When a signal other than BT.2020 is input, the mode set in "Color Space" is applied. ("BT.2020" is not available in this case.) On: Set when playing back HDR content. Off: Set when playing back content other than HDR content. "Color Space" is not set automatically when "On" or "Off" is selected.		
	Note If the setting is not correct for the input content, the bright and dark areas of the video may appear too bright or too dark.		

Setting items	Description
Color Space [COLOR SPACE]	Converts the color space. BT.709: An ITU-R BT.709 color space, which is used for high- definition television broadcast or Blu-ray Disc. The color space is equivalent to sRGB. BT.2020: The color space is wider than BT.709. Use this setting when playing back HDR content. Color Space 1: The color space suited for watching TV programs and video images, such as sport, concerts, etc. Color Space 2: The color space suited for watching TV programs, sport, concerts, and other video images in a bright environment, such as a living room. Color Space 3: The color space suited for watching movies in a bright environment, such as a living room. Custom: You can adjust the color space setting. Color Space : 0 Setter Setter
	Note When "HDR" is set to "Auto," the selectable mode changes according to the signal type (page 29).
Input Lag Reduction	Reduces the delay of the display for a video. On: Reproduces a smooth fast-moving video image with a reduced sense of afterimage. Off: Turns the Input Lag Reduction function off.
	Tip When "Input Lag Reduction" is set to "On," Motionflow, NR, and MPEG NR cannot be set.

Advanced Picture Menu

You can adjust the gaps in color that have occurred after a long period of use.

Advan	Advanced Picture					
	Auto Calibration Pre Check					
L .	Adjust Before/After					
	Reset					
\$						
3						
G						
	Sel: 🕶 Set: 🗄 B	ack: 🔹 Exit: MENU				

Notes

- Auto Calibration results in relatively coarse calibration. No warranty is given for the color settings to be the same as the factory default values.
- While performing "Pre Check" or "Adjust," the colors are projected automatically. This is not a malfunction.
- Do not turn off the power or operate the remote control or control panel during "Pre Check" or "Adjust", as the process may be canceled.

Tips

- dE is an indicator of changing color. The smaller the value of dE, the fewer the changes caused by the color.
- Perform the calibration after the power has been on for more than 30 minutes.
- It takes a few minutes for "Pre Check" or "Adjust" to complete.
- When "Pre Check" or "Adjust" starts, the screen position may shift, as the lens returns to its factory default position. After completion, the screen returns to its previous position automatically.
- If the environment changes, such as the brightness of the room, while performing "Pre Check" or "Adjust", measurement may be affected.
- If the "Pre Check" or "Adjust" function fails, try it once again.

Setting items	Description
Auto Calibration	 Pre Check: Checks the color difference against the factory default settings, before calibration starts. Adjust: Performs Auto Calibration. Before/After: Toggles the factory default setting and the setting after the calibration at a certain frequency. You can check the effect of the calibration by monitoring the actual image. Reset: Resets the calibration results, and returns to the factory default settings.

E Screen Menu

You can set the picture size, aspect mode, etc.

Scree	Screen					
	Picture Position			Picture Position		•
_	Aspect	Norm	al			
•	Blanking	On				
æ						
3						
0						
	Sel:	🕒 Set: 🕀	Back: 🗲	Exit: MENU		

Note

These items may not be available, depending on the type of input signal. For details, see "Input Signals and Adjustable/Setting Items" (page 59).

Item names in brackets represent those printed on the remote control.

Setting items	Description
Picture Position [POSITION]	 You can store up to five combinations of lens settings, aspect ratio, and blanking. After setting the lens, aspect, and blanking, select from "1.85:1," "2.35:1," "Custom 1," "Custom 2," or "Custom 3" depending on the subtended screen angle, and after confirming, continue by selecting "Save," "Delete," or "Select." Save: Stores the current lens settings (focus, window size, window position) in the selected position. If a setting is already stored in that position, it is overwritten. Delete: Deletes the stored setting. After the setting is deleted, "1.85:1," "2.35:1," "Custom 1," "Custom 2," or "Custom 3" in the display change to "" Select: Recalls the settings of the selected position.
	 Tips The optimal aspect ratio is preset for each picture position. The aspect ratio can be changed and saved for each picture position. When saving the Picture Position, temporarily move the picture from the saving point down 5 cm or more. Move the picture up again and save. This improves the precision of the Picture Position when calling it.
	 Notes After you have selected and confirmed the lens position, the lens starts to move. Do not touch the lens and the area around the lens, otherwise it may cause injury or a malfunction. If you press any button on the unit while the lens is moving, the lens stops. In this case, select the lens position again or adjust the lens manually. When you use a 2.35:1 or a 16:9 subtended screen angle with the Picture Position function, make sure that the installation position is suitable (page 17). The Picture Position function is not guaranteed to reproduce the lens settings precisely.

Setting items	Description	
Aspect [ASPECT]	 You can set the aspect ratio of the picture to be displayed for the current input signal (page 19). You can set the function only when a video signal other than a resolution of 4096 × 2160 pixels is input. 1.85:1 Zoom: A 1.85:1 aspect ratio picture is displayed in its original aspect ratio, enlarged so that black bands do not appear at the top and bottom of the screen. 2.35:1 Zoom: A 2.35:1 aspect ratio picture is displayed in its original aspect ratio, enlarged so that black bands at the top and bottom of the screen. 2.35:1 Zoom: A 2.35:1 aspect ratio picture is displayed in its original aspect ratio, enlarged so that black bands at the top and bottom of the screen are as small as possible. When you select "2.35:1 Zoom" from "Trigger Select 1/2" on the Installation menu, a 12 V signal is output from the TRIGGER 1 or TRIGGER 2 connector (page 39). Normal: Input video is displayed in its original aspect ratio, enlarged to fill the screen. This mode is suitable for viewing 1.78:1 (16:9) and 1.33: (4:3) video. V Stretch: This is the most suitable mode for using a 2.35:1 screen to view 2.35:1 video with a commercially available anamorphic lens. When you select "V Stretch" from "Trigger Select 1/2" on the Installation menu, a 12 V signal is output from the TRIGGER 1 or TRIGGER 2 connector (page 39). Squeeze: With this setting, 1.78:1 (16:9) and 1.33:1 (4:3) video will be displayed in their correct aspect ratios when you use a commercially available anamorphic lens. Stretch: Displays video that has been squeezed to 1.33:1 (4:3) as 1.78: (16:9) aspect ratio. 	
	 Tips When you select "V Stretch" or "Squeeze," select the anamorphic lens type from "Anamorphic Lens" in the Installation → menu. Selectable aspect modes vary depending on the input signal (page 62). The aspect cannot be selected for an input signal from a computer, or an input signal with a resolution of 4096 × 2160 (pages 57, 58, 62). 	
Blanking	This feature allows you to adjust the displayable region within the four directions of the screen. On: Select the edge to adjust by highlighting Left, Right, Top, or Bottom using the ↑/↓ buttons. Adjust the amount of blanking using the ←/→ buttons. Blanking Left: 2 Right: 3 Top: 2 Bottom: 3 Set: D Adjust:	
	Off: Turns off the Blanking function.	
	Tip	

Tip Depending on the aspect ratio setting, right/left blanking may not be available.

🚘 Setup Menu

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

Setup			
	Status	On	
-	Language	English	
•	Menu Position	Bottom Left	
	High Altitude Mode	Off	
	Remote Start	Off	
	Network Management	Off	
-	Power Saving	Standby	
_	Lamp Setting		
	All Reset		
2			
()			
	Sel: া 🕨	Set: 🗈 Back: 💌 Exit: MENU	j

Setting items	Description	
Status	Sets whether or not the on-screen display is displayed. Set to "Off" to turn off the on-screen displays except for certain menus, message when turning off the power, and warning messages.	
Language	Selects the language used in the menu and on-screen displays.	
Menu Position	You can change the position to display the menu on the screen. Bottom Left: Displays the menu on the bottom left area of the screen. Center: Displays the menu on the center of the screen.	
High Altitude Mode	Sets the unit to operate at the prevailing atmospheric pressure. On: Use this setting when using the unit at an altitude of 1,500 m (approx. 4,900 ft) or higher. Off: Use this setting when using the unit at normal altitudes.	
	Tip When this item is set to "On," the fan noise becomes slightly louder since the fan speed increases.	
Remote Start	Sets the Remote Start settings. On: You can turn on the power from a PC or a terminal which is connected to a network. Off: Turns off the Remote Start function.	
	 Tips To use the function, the unit should be connected to the network in advance (page 41). To turn on the power with the Remote Start function, a special command should be sent from a PC or a terminal. For details, consult with qualified Sony personnel. Note When Remote Start is set to "On," the standby power requirement will increase. When Network Management is set to "On," the Remote Start setting is set to "On" automatically, and you cannot change the setting. Also, this is not displayed on the menu. 	

Setting items	Description
Network Management	On: Set when connected to the network and continuously communicating with the projector control equipment.
	Note When Network Management is set to "On," the network function is continuously enabled. Set Network Management to "Off" for normal use. If you set to "On," the power consumption increases.
Power Saving	Sets the power saving mode. Standby: If no signal is input for 10 minutes, power is turned off automatically and the projector goes into standby mode. Off: Disables the power saving function.
Lamp Setting	When replacing the lamps, set the desired lamp setting (page 52).
All Reset	All settings are initialized to their factory preset values.
	The "Lamp Timer" in the Information 🛈 menu is not reset.

E Function Menu

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

Funct	Function			
	3D Settings Dynamic Range			•
	HDMI Signal Format			•
	Test Pattern Settings Lock	On Off		
3				
0				
	Sel: া	Set: 🗄	Back: 🖝	Exit: MENU

etting items	Description	
D Settings	You can change the settings of the 3D function.	
2D-3D Display Sel.	 For Switching the video images to "2D" or "3D." Auto: Displays 3D video images when HDMI signals with 3D information* are input. Displays 2D video images when other signals are input. 3D: Displays 3D video images according to the 3D system selected in "3D Format." However, when HDMI signals with 3D information are input to the unit, displays 3D video images according to the 3D system selected in the unit, displays 3D video images according to the 3D system of those HDMI signals. 2D: Displays 2D video images. * The 3D information is additional information to discriminate 3D. Some HDMI signals have additional information to discriminate 3D and some HDMI signals have none. 3D Format: Set the 3D system when the input HDMI signals do not include 3D information. Simulated 3D: Converts 2D video images to 3D video images. The setting can be made only for input the HD signals. The simulated 3D feature may have limited effect, depending on the video source. There are differences in perception of 3D video images among individuals. Side-by-Side: Select this to display 3D images as two similar images, side-by-side. Over-Under: Select this to display 3D images as two similar images, one above the other. 	
	 Tips "2D-3D Display Sel." cannot be set to "3D" for some video sources. For available 3D signals, see "Compatible 3D Signals" (page 60). The simulated 3D feature may have limited effect, depending on the screen size (100 to 120 inches recommended) and the video source. The menu display has a ghost while a 3D video image is displayed and is best viewed with the 3D glasses. 	
3D Brightness	For adjusting the brightness of the picture when watching 3D video images. You can select the brightness "High" or "Standard."	

Setting items	Description		
3D Depth Adjust	For adjusting the depth of the 3D video images on the screen. The setting can be made only when a 3D Format other than "Simulated 3D" is selected.		
	Depth -2 -1 0 $+1$ $+2$		
	Front 🔶 Normal 🔶 Depth		
	We recommend that "3D Depth Adjust" be set to "0." The 3D video images may be difficult to perceive, depending on the setting of "3D Depth Adjust."		
Simulated 3D Effect	For adjusting the 3D effect when 2D content is converted to 3D video images. You can select the effect from among "High," "Middle," and "Low."		
	Tip There are differences in perception of 3D video images converted by the simulated 3D function among individuals.		
Dynamic Range	Sets the video input level for HDMI 1 and HDMI 2 connectors. Auto: Sets the video input level automatically. Limited: The video input level is set for signals of 16-235. Full: The video input level is set for signals of 0-255.		
	Note If the video output setting of the connected HDMI device is not set correctly, light and dark parts of the video may appear too light or too dark.		
HDMI Signal Format	Switches the video signal formats for 4K. Standard Format: Displays a picture in the standard HDMI format. Normally use this setting. Enhanced Format: Displays a picture in a more detailed HDMI format. Use this setting only when the corresponding devices are used.		
	 Tips A picture or sound may not be output normally when "Enhanced Format" is selected. In this case, set to "Standard Format." Set "Enhanced Format" only when the corresponding devices are used. 		
Test Pattern	Displays a test pattern according to the setting. On: A test pattern appears on the screen to be used when adjusting the lens with "Lens Focus," "Lens Zoom," and "Lens Shift." Off: A test pattern does not appear.		
	Tip While the test pattern is displayed, it is only displayed in green to allow you to adjust the focus easily.		
Settings Lock	 Locks menu item settings to prevent operational error (page 38). Off: Cancels the Settings Lock. Level A: Group 1 items (below) are not displayed on the menu, and are not available. Level B: Group 1 and Group 2 items (below) are not displayed on the menus, and are not available. 		

Items Locked by Settings Lock

Group 1

Picture menu

Reset Reality Creation Advanced Iris Contrast Enhancer Lamp Control Motionflow Contrast Brightness Color Hue Color Temp. Sharpness NR MPEG NR Smooth Gradation Film Mode Gamma Correction Color Correction Clear White x.v.Color HDR Color Space Input Lag Reduction

Group 2

Setup menu

Status Language Menu Position High Altitude Mode Remote Start Network Management Power Saving Lamp Setting All Reset

Function menu

Dynamic Range Test Pattern

Installation menu

Image Flip Lens Control Anamorphic Lens Trigger Select IR Receiver Panel Alignment Network Setting

Advanced Picture menu

Auto Calibration

Installation Menu

The Installation menu is used for changing the installation settings.

Install	ation		
	Image Flip	Off	
	Lens Control	On	
	Anamorphic Lens	1.24x	
	Trigger Select		•
	IR Receiver	Front & Rear	
	Panel Alignment	Preset	
\$	Network Setting		•
٩			
()			
	Sel:≇≢	Set: 🗈 🛛 Back: 💽	Exit: MENU

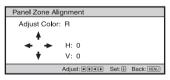
Setting items	Description
Image Flip	 Flips the picture on the screen horizontally and/or vertically. HV: Flips the picture horizontally and vertically. H: Flips the picture horizontally. V: Flips the picture vertically. Off: The picture does not flip. Use this item for installation for the backside projection or ceiling installation.
Lens Control	Avoids any operation of the lens such as "Lens Focus," "Lens Zoom," and "Lens Shift," by mistake. On: Enables adjustment of the lens. Off: Prevents any adjustment of the lens.
Anamorphic Lens	 Select a setting to match the anamorphic lens conversion ratio. 1.24x: Select this when you use an anamorphic lens with a horizontal rate of 1.24x. 1.32x: Select this when you use an anamorphic lens with a horizontal rate of 1.32x.
Trigger Select	 Switches the output function of the TRIGGER 1/TRIGGER 2 connector. Off: Turns off the TRIGGER connector function. Power: Outputs 12 V signals from the TRIGGER 1/TRIGGER 2 connectors when the unit is on. The TRIGGER 1/TRIGGER 2 connectors do not output any signals when the unit is in standby. V Stretch: Works with the "Aspect" setting's "V Stretch" (page 33) and outputs a 12 V signal from the TRIGGER 1 or TRIGGER 2 connector. 2.35:1 Zoom: Works with the "Aspect" setting's "2.35:1 Zoom" (page 33) and outputs a 12 V signal from the TRIGGER 1 or TRIGGER 2 connector.
IR Receiver	Selects the remote control detectors (IR Receiver) on the front and rear of the unit. Front & Rear: Activates both the front and rear detectors. Front: Activates the front detector only. Rear: Activates the rear detector only.

Setting items	Description
Panel Alignment	 This feature allows you to adjust the gaps in the color of characters or the picture on the screen. Adjust: Adjusts the gaps in the colors selecting "Adjust Color" or "Adjust Item." 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 "Adjust Color" is "R" (Red). Select "B/G" (Blue and Green) or "R/G/B" (White, all colors) when "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.
	Panel Shift Alignment Adjust Color: R H: 0 V: 0 Adjust Coloe: Select the position to adjust with for a last the position to adjust the position to adjust the last the position to adjust the position to adjust the position to adjust the

When "Zone" is selected: Select the position to adjust with \leftarrow/\rightarrow buttons for the horizontal position (H position) and \uparrow/\downarrow buttons for the vertical position (V position), then press (\div) .

Panel Zone Alignment				
Adjust Color: R				
				
* *	H Position:	10		
+	V Position:	10		
	Sel: ++++	Set: Back: MENU		

Set the amount to adjust with \bigstar/\bigstar buttons for the horizontal direction (H direction) and with \Uparrow/\bigstar buttons for the vertical direction (V direction). You can select the position to adjust again by pressing \div .



Reset: Returns to the factory settings.

Preset: The optimized data has been preset.

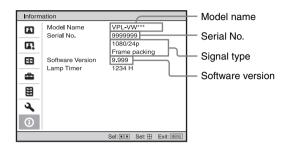
Note

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

Setting items	Description
Network Setting	Perform internet protocol settings.
IPv4 Setting	 IP Address Setup: Selects the IP address setting method. Auto (DHCP): The IP address is assigned automatically from the DHCP server such as a router. Manual: Specifies the IP address manually. When "Manual" is selected for "IP Address Setup," input "IP Address," "Subnet Mask," and "Default Gateway." Select each item with the ↑/↓ buttons, then press ÷ button. Select the frame to input with the ★/↓ buttons and input the value with the ↑/↓ buttons. When all items are entered, select "Apply," and then press the ÷ button. The entered settings will be registered. IP Address: Sets the unit's IP address. Subnet Mask: Sets the unit's default gateway. MAC Address: Displays the unit's MAC address. This cannot be changed. Apply: Enables the IP address that is set manually.
IPv6 Information	Displays the IPv6 information. When you set the IPv6 IP address, set it on a Web browser (page 43).

Information Menu

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



ltems	Description
Model Name	Displays the model name
Serial No.	Displays the serial number.
Signal type	Displays the type of the input signal. When input signals with 3D information are input, the type of input signals and the 3D format are displayed. When the input signal is compatible with HDR, the "HDR" is displayed.
Software Version	Displays the software version.
Lamp Timer	Indicates how long the lamp has been turned on (total usage).

Note

You cannot adjust or change the displays listed above.

About the Preset Memory

This unit has default image data to adjust preset data for input signals appropriately according to the signals shown in "Preset Signals" (page 57) (the preset memory). When the preset signal is input, the unit automatically detects the signal type and recalls the data for the signal from the preset memory to adjust it to an optimum picture. The signal type is displayed in the Information **(1)** menu.

Note

Depending on the computer input signal, parts of screen may be hidden or displayed incorrectly.

Using Network Features

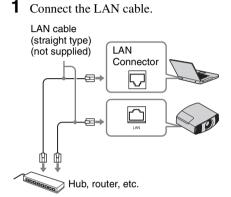
Connection to the network allows you to operate the following features:

- Checking the current status of the unit via a Web browser.
- Making the network settings for the unit.
- Network monitoring and controlling with control protocol (SDAP [Advertisement], SDCP [PJ Talk], DDDP [AMX], Crestron RoomView, Control4).

Notes

- When connecting this projector with the network, consult with the person who sets up the network. The network must be secured.
- When using this projector connected with the network, access the Control window via a Web browser and change the access limitation of the factory preset values (page 45). It is recommended to change the password regularly.
- When the setting on the Web browser is completed, close the Web browser to log out.
- The menu displays used for the explanation below may be different depending on the model you are using.
- Supported Web browsers are Internet Explorer 8/9/10/11.
- The menu displays only English.
- If the browser of your computer is set to [Use a proxy server] when you have access to the unit from your computer, click the check mark to set accessing without using a proxy server.
- AMX DDDP is not compatible with IPv6.
- These network functions are available when the unit is turned on.

Displaying the Control Window of the Unit with a Web Browser



- 2 Set the network settings for the unit using "Network Setting" on the Installation menu (page 41).
- **3** Start a Web browser on the computer, enter the following in the address field, then press the Enter key on your computer. http://xxx.xxx.xxx

(xxx.xxx.xxx: IP address for the unit)

When connecting by the IPv6 address

http://[xxxx:xxxx:- xxxx]

You can confirm the IP address of the unit under "Network Setting" on the Installation A menu.

The following window appears in the Web browser:



Once you make the network settings, you can open the Control window only by performing step **3** of this procedure.

Operating the Control Window

Switching the Page

Click one of the Page Switching buttons to display the desired setting page.

Projector			SONY
Informat	ion	Setup	
INFORMATION		show the present status of t check the network settings a projector.	
SETUP	Set the setting to u	se a network function such a	is mail, etc

Page Switching buttons

Setting the Access Limitation

You can limit a user for accessing any particular page.

- Administrator: Allowed access to all pages
- **User:** Allowed access to all pages except the Setup page

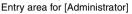
When you access the Setup page for the first time, input "root" as the user name and "Projector" as the password in the authentication dialog.

When you log in for the first time, the window that prompts you to change the password is displayed. Follow the instructions on the screen to change the password.

The name of the administrator is preset to "root."

Set Password ×
This is the first access to this page. Please change the administrator's password to continue.
New Password :
Confirm :
OK Cancel

Projector		SONY
Inform	mation	Setup
Owner information Network Password Easy Menu *	Administr Pr Confirm Pr	Name : root assword :
Service Roset	User Pr Confirm Pr	Name :



Entry area for [User]

The password can be changed in the Password page in the Setup page. When you change the password, input a new password after deleting the password (*****) that was set.

The password of the administrator and user should be 8 to 16 characters that includes both alphabet and numeric characters.

Alphabet is case-sensitive.

The default password "Projector" cannot be set as a new password.

Note

If you forget your password, consult with qualified Sony personnel.

Confirming the Information Regarding the Unit

You can confirm the current settings for the unit on the Information page.



Information area

Troubleshooting

If the unit 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	Page
The power is not turned on. ⁽¹⁾ The power may not turn on if you turn the power off with I ⁽¹⁾ (ON/STANDBY) button 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.	53
	Check warning indicators.	49
The power is suddenly turned off.	Check that "Power Saving" in the Setup 🚔 menu is set to "Standby."	35
	Set "Power Saving" to "Off."	35

Picture

Symptom	Cause and Remedy	Page
No picture.	Check that the connecting cable is connected to the external equipment properly.	13
	Select the input source correctly using the INPUT button.	15
	Check that the computer signal is set for output to an external monitor. If the notebook computer, etc., signal is output to its display and an external monitor, the external monitor's image may not be displayed correctly. Set your computer to output the signal to only an external monitor.	_
The picture has ghosts.	Video images are displayed in 3D. Watch the 3D video images using the 3D glasses, and set "2D-3D Display Sel." to "3D." To convert 3D video images to 2D video images, set "2D- 3D Display Sel." to "2D."	16, 36
Bright or dark area of the video appears too bright or too dark.	This symptom may occur when signal level other than those of HDMI standard is input. Switch the output level of the connected equipment, or switch the Dynamic Range on the Function menu of the unit.	37
The picture is too dark.	Adjust "Contrast" or "Brightness" on the Picture 🔝 menu properly.	27
The picture is not clear.	Adjust the focus.	9
	If the lens is clouded with dew condensation, leave the unit 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 the Installation A menu.	40

Symptom	Cause and Remedy	Page
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	Page
On-screen display does	Set "Status" on the Setup 🚘 menu to "On."	34
not appear.	Check if the ON/STANDBY indicator should light in green. When the ON/STANDBY indicator blinks in green, the unit is starting up. Wait until it stops blinking and remains lit in green.	8
The model name does not disappear from the screen.	The display mode of the unit 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	Batteries could be weak. Replace them with new batteries.	-			
not work.	Insert the batteries with the correct polarities.	-			
	If there is a fluorescent lamp near the remote control detector, the unit may work improperly or inadvertently.	-			
	Confirm the position of the remote control detector on the unit.				
	Set "IR Receiver" to "Front & Rear" on the Installation A menu.	39			

3D video images

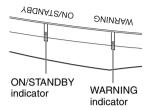
Symptom	Cause and Remedy		
The video image does not	Check if the 3D glasses are turned on.	16	
seem like 3D video images.	Make sure that the battery in the 3D glasses could be weak or is sufficiently charged.	-	
	Set "2D-3D Display Sel." to "Auto" or "3D."	36	
	Check if the input signals are compatible 3D signals.	60	
	The 3D signals may not be input depending on the specifications of the connected AV selector/AV amplifier/ external equipment. If the 3D signal is not input, confirm the specifications and/or settings of the AV selector/AV amplifier/external equipment.	_	
	When the viewing position is too far from the unit, the 3D glasses may not be able to display the images properly.	16	
	The screen size is not appropriate. Set the zooming magnification to low or watch the image from farther away from the screen.	65	
	For details, see "Precautions for use" of "Using the 3D Glasses."	16	

Others

Symptom	Cause and Remedy	Page
The fan is noisy.	Check the setting of "High Altitude Mode" on the Setup menu.	
	Make sure that the room temperature is not too high.	-
	Check the installation requirements of the unit. Fan speed 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 (77°F).	-
The lens shift cannot be adjusted.	The lens shift cannot be adjusted over the range of movement. Adjust the lens shift within the range of movement.	11,65

Warning Indicators

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



Flashing/Lighting indicators	The number of flashes	Cause and Remedy
Yadnate/NO Oniversity	Twice	Close the lamp cover securely, then tighten the screws securely (page 53).
(Flashes in red)	Three times	The temperature of lamp is unusually high. Turn off the power and wait for the lamp to cool, then turn on the power again. If the symptom persists, the lamp may be at the end of its service life. In this case, replace the lamp with a new one (page 52).
Yaduatzino Siningaw	Twice	The internal temperature is unusually high. Check to ensure that if nothing is blocking the ventilation holes or whether or not the unit is being used at high altitudes.
	Three times	The fan is broken. Consult with qualified Sony personnel.
(Flashes in red) (Flashes in red)		
Both indicators flash		

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

Warning messages

Symptom	Cause and Remedy			
High temp.! Lamp off in	Turn off the power.	-		
1 min.	Check to ensure that nothing is blocking the ventilation holes.	4, 5		
Frequency is out of range!	Frequency is out of range. Input a signal that is within the acceptable frequency range of the unit.			
Please replace the Lamp.	It is time to replace the lamp. Replace the lamp. If this message appears again after you replace the lamp, the lamp replacement process is not complete. Check the lamp replacement process.			
	Note To clear this message, press any button either on the remote control or the control panel of the unit once.			
Projector temperature is high. High Altitude	Check to ensure that nothing is blocking the ventilation holes.			
Mode should be "On" if projector is being used at high altitude.	When using the unit at high altitude, set "High Altitude Mode" to "On."	34		
ingn annuuc.	Note When temperature inside the unit remains high, "High Altitude Mode" is switched to "On" in 1 minute, then the fan speed increases.			
Power Saving Mode is	"Power Saving" is set to "Standby."	35		
set. Projector will automatically enter Standby Mode in 1 minute.	Note If no signal is input, the power turns off after 1 minute, and the projector goes into standby mode.			

Caution messages

Symptom	Cause and Remedy	Page
X€	No signal is input in the selected input. Check connections.	13
Not applicable!	Press the appropriate button. The operation to be activated by the button is currently prohibited.	_
Settings Lock enabled.	"Settings Lock" is set to "Level A" or "Level B."	37

Others

Updating the Software

You can download files to update the software of the unit. Copy the downloaded files to your USB memory, insert the USB memory to the USB terminal of the unit, then perform the update.

To use the features updated, insert a USB memory device into a PC connected to the internet.

Download the update files from the following Sony website:

https://esupport.sony.com/

The website also explains how to install the update.

Note

Some USB memories may not be supported for use. For details, refer to the website above.

About HDR (high dynamic range)

HDR is a video expression which improves the ability to express dark places and bright places compared to previous video expressions.

About the x.v.Color

- "x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.
- xvYCC is an international standard of the technical specifications of the extended-gamut color space for video signals. The color gamut of xvYCC is wider than the one of sRGB that is used with the current television system.

About the simulated 3D feature

- Use the simulated 3D function taking into account that the picture will provide a different look from the original images, because this function converts the video images.
- Note that if the unit is used for profit or for public viewing, displaying 2D video images as 3D video images by converting to the simulated 3D may constitute an infringement of the rights of authors or producers, which are legally protected.

Replacing the Lamp

The lamp used for the light source has a certain lifespan. When the lamp dims, the color balance of the picture becomes strange, or "Please replace the Lamp." appears on the screen, the lamp may be exhausted. Replace the lamp with a new one (not supplied) without delay.

Тір

The lifespan of the lamp used for the light source changes depending on the installation environment or use conditions. You can use the lamp longer by avoiding turning the lamp off until several minutes pass after turning the lamp on.

Tools you need to get started:

- Projector Lamp LMP-H280 (Optional)
- Standard Phillips screwdriver
- Cloth (for scratch protection)

Caution

- The lamp remains hot after the unit is turned off with the I/(¹) (ON/STANDBY) button. 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 surface of the lamp. If you touch it, wipe off the fingerprints with a soft cloth.
- Pay special attention to replacing the lamp when the unit is installed on the ceiling.
- When replacing the lamp of a unit which is on the ceiling, do not stand directly under the lamp cover. When removing the lamp door (inner cover), avoid twisting it. If the lamp explodes, fragments may cause injury.
- 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.

Notes

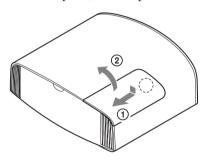
• Be sure to use an LMP-H280 Projector Lamp for replacement. If you use lamps other than the LMP-H280, the unit may malfunction.

- Be sure to turn off the unit and unplug the power cord before replacing the lamp, then check the ON/STANDBY indicator has already been turned off.
- **1** Turn off the unit and unplug the AC power cord.
- **2** When setting the unit on a flat surface such as a desk etc., put a cloth to prevent the surface from being scratched. Place the unit on the cloth.

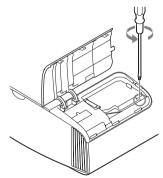
Note

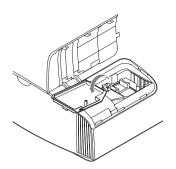
Be sure that the unit is placed on a stable surface.

3 While pressing the () part indicated in the lamp cover illustration, slide (1) and then open (2) the lamp cover.

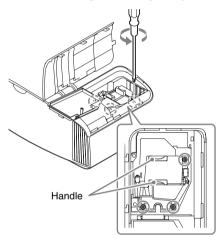


4 Loosen the lamp door (inner cover) screw with a Phillips screwdriver, and then open the lamp door.





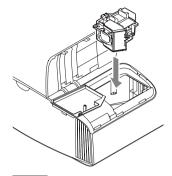
5 Loosen the 3 screws on the lamp with the Phillips screwdriver. Hold up the handle, then pull the lamp straight out.



Notes

- Do not loosen other screws except the 3 specified screws.
- Hold the lamp by the handle to remove and attach it.

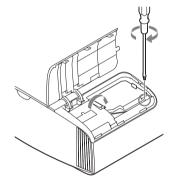
6 Push in the new lamp by the handle securely until it reaches the end, and then tighten the 3 screws.



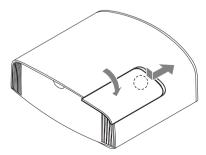
Note

Be careful not to touch the optical block inside the unit.

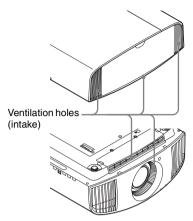
7 Close the lamp door (inner cover), and then tighten the screw.



8 Close the lamp cover.



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



10Turn on the unit, then select the lamp setting item on the Setup and menu. The menu screen below will be appeared.

Lamp Setting	
Settings for lamp replacement. Has the projection lamp been replaced ?	
Yes No	
Sel: 🕶 Se	ət: 🖽

Тір

If "Settings Lock" is set to "Level B," set to "Off" once.

11 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

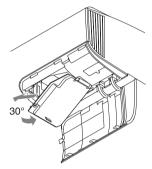
• The unit will not turn on unless the lamp is securely installed in place.

- The unit will not turn on unless the lamp cover are securely closed.
- To clear a message displayed on the screen, press any button either on the remote control or the control panel of the unit once.

Note on replacing the lamp when broken, in the case of a ceiling installation

If the lamp breaks, broken lamp pieces may scatter and cause injury.

When the unit is on the ceiling, remove the lamp door (inner cover) by sliding it horizontally slowly after raising it with 30 degree opened. Avoid twisting the lamp door (inner cover).



Note

The lamp contains mercury. The disposal rules for used fluorescent tubes depend on where you live. Follow the waste disposal policy in your area.

Disposal of the used lamp

For the customers in the U.S.A. and Canada

Hg Lamp contains mercury. Dispose according to applicable local, state/province and federal laws. For additional information, see <u>www.sony.com/</u> <u>mercury</u>

Cleaning

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.
- Clean the unit with a cleaning cloth. Wiping with a dirty cloth may scratch the unit.
- Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.

Specifications

Item		Description		
Display system		SXRD panel, projection system		
Display device Size of effective display area		0.74-inch (18.8 mm) SXRD		
	Number of pixels	26,542,080 pixels (8,847,360 pixels × 3)		
Projection lens		2.06 times zoom lens (motorized) f = 21.7 mm to 44.7 mm F3.0 to F4.0		
Light source		Ultra High Pressure Lamp 280 W type		
Screen size		60 inches to 300 inches (1,524 mm to 7,620 mm) (measured diagonally)		
Accepted digital sign	nals	480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/ 50i, 1080/60p, 1080/50p, 1080/24p, 3840 × 2160/24p, 3840 × 2160/25p, 3840 × 2160/30p, 3840 × 2160/50p, 3840 × 2160/60p, 4096 × 2160/24p, 4096 × 2160/25p, 4096 × 2160/30p, 4096 × 2160/50p, 4096 × 2160/60p		
HDMI (2 inputs), HI	DCP compliant	RGB Y Pb/Cb Pr/Cr		
Other inputs/ outputs	TRIGGER (2 connectors)	Minijack, DC 12 V Max. 100 mA		
	REMOTE	RS-232C: D-sub 9-pin (female)		
	LAN	RJ45, 10BASE-T/100BASE-TX		
	IR IN	Minijack		
	USB	DC 5 V, Max. 500 mA		
Outside dimensions	(w/h/d)	495.6 mm × 195.3 mm × 463.6 mm (19 $^{1}/_{2}$ × 7 $^{11}/_{16}$ × 18 $^{1}/_{4}$ inches) (without protrusions)		
Mass		Approx. 14 kg (31 lb)		
Power requirements		AC 100 V to 240 V, 4.1 A to 1.7 A, 50/60 Hz		
Power consumption		410 W		
Power consumption	Standby	0.3 W (when "Remote Start" is set to "Off")		
	Networked Standby	1.0 W (LAN) (when "Remote Start" is set to "On") When a LAN terminal is not connected, it becomes a low power consumption mode (0.5 W).		
Operating temperatu	ire	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	3	See "Checking the Supplied Accessories" in the supplied Quick Reference Manual.		
Optional accessories		Projector Lamp: LMP-H280 (for replacement) Projector Suspension Support: PSS-H10 Active 3D Glasses: TDG-BT500A		

Notes

- The values for mass and dimensions are approximate.
- Not all optional accessories are available in all countries and area. Please check with your local Sony Authorized Dealer.
- Information on accessories in this manual is current as of September 2016.

Design and specifications of this unit and its optional accessories are subject to change without notice.

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.

Preset memory no.			fH (kHz)	fV (Hz)	Sync	
5	480/60p	480/60p (Progressive NTSC) (720 × 480p)	31.470	60.000	_	
6	576/50p	576/50p (Progressive PAL) (720 × 576p)	31.250	50.000	_	
7	1080/60i	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	-	
18	720/60p (Frame packing)	720/60p (1280 × 720p)	90.000	60.000	-	
19	720/50p (Frame packing)	720/50p (1280 × 720p)	75.000	50.000	-	
20	1080/24p (Frame packing)	1080/24p (1920 × 1080p)	53.946	23.976	-	
26	640×480	VESA 60	31.469	59.940	H-NEG, V-NEG	
32	800 × 600	VESA 60	37.879	60.317	H-POS, V-POS	
37	1024 × 768	VESA 60	48.363	60.004	H-NEG, V-NEG	
45	1280 × 960	VESA 60	60.000	60.000	H-POS, V-POS	
47	1280×1024	VESA 60	63.974	60.013	H-POS, V-POS	
50	1400×1050	SXGA+	65.317	59.978	H-NEG, V-POS	
55	1280 × 768	1280 × 768/60	47.776	59.87	H-NEG, V-POS	
71	1920 × 1080/60i (Frame packing)	1080/60i (1920 × 1080i)	67.500	60.000	-	

Preset memory no.	Preset signal (resolution)		fH (kHz)	fV (Hz)	Sync
72	1920 × 1080/50i (Frame packing)	1080/50i (1920 × 1080i)	56.250	50.000	-
74*	3840 × 2160/60p	3840×2160/60p (3840 × 2160)	135.000	60.000	-
75*	3840 × 2160/50p	3840 × 2160/50p (3840 × 2160)	112.500	50.000	-
76*	4096 × 2160/60p	4096 × 2160/60p (4096 × 2160)	135.000	60.000	-
77*	4096 × 2160/50p	4096 × 2160/50p (4096 × 2160)	112.500	50.000	-
78	4096 × 2160/30p	4096 × 2160/30p (4096 × 2160)	67.500	30.000	-
79	4096 × 2160/25p	4096 × 2160/25p (4096 × 2160)	56.250	25.000	-
93	3840 × 2160/24p	3840 × 2160/24p (3840 × 2160)	53.946	23.976	-
94	3840 × 2160/25p	3840 × 2160/25p (3840 × 2160)	56.25	25	-
95	3840 × 2160/30p	3840 × 2160/30p (3840 × 2160)	67.4325	29.97	-
96	4096 × 2160/24p	4096×2160/24p (4096 × 2160)	54	24	-

* Available only for YCbCr 4:2:0 signal.

Preset memory numbers for each input signal

Digital signal

Signal	Preset memory number
Component signal (HDMI 1, 2 connectors)	5 to 8, 10 to 14, 18 to 20, 71, 72, 74 to 79, 93 to 96
Video GBR signal (HDMI 1, 2 connectors)	5 to 8, 10 to 14, 18 to 20, 71, 72, 78, 79, 93 to 96
Computer signal (HDMI 1, 2 connectors)	10 to 13*, 26, 32, 37, 45, 47, 50, 55

* Some digital signals input from computers may be displayed as preset memory number of Component or Video GBR signal.

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/set are not displayed in the menu.

Picture menu

Hom	Input signal					
ltem	Component signal	Video GBR signal	Computer signal			
Reality Creation	•	•	_			
Advanced Iris	•	•	٠			
Contrast Enhancer	• (excluding preset memory numbers 74 to 79 and 93 to 96)	• (excluding preset memory numbers 78, 79 and 93 to 96)	-			
Lamp Control	•	•	•			
Motionflow* ¹	• (excluding preset memory number 19)	• (excluding preset memory number 19)	-			
Contrast	•	•	•			
Brightness	•	•	•			
Color	•	•	-			
Hue	•	•	-			
Color Temp.	•	•	•			
Sharpness	•	•	-			
NR	• (excluding preset memory numbers 18 to 20, 71, 72, 74 to 79, and 93 to 96)	nemory numbers 18 memory numbers 18 to 20, 71, 72, 74 to to 20, 71, 72, 78, 79,				
MPEG NR	• (excluding preset memory numbers 18 to 20, 71, 72, 74 to 79, and 93 to 96)	• (excluding preset memory numbers 18 to 20, 71, 72, 78, 79, and 93 to 96)	-			
Smooth Gradation	• (excluding preset memory numbers 18 to 20, 71, 72, 74 to 79, and 93 to 96)	• (excluding preset memory numbers 18 to 20, 71, 72, 78, 79, and 93 to 96)	-			
Film Mode	● (excluding preset memory numbers 5, 6, 10 to 14, 18 to 20, 74 to 79, and 93 to 96)	• (excluding preset memory numbers 5, 6, 10 to 14, 18 to 20, 78, 79, and 93 to 96)	-			
Gamma Correction	•	• •				
Color Correction	•	• •				
Clear White	•	•	•			
x.v.Color	•	-	_			
HDR	• (preset memory numbers 74, 75, 93, 94, and 95 only)	• (preset memory numbers 74, 75, 93, 94, and 95 only)	-			
Color Space	•	•	•			

•: Adjustable/can be set

-: Not adjustable/cannot be set

*1: For further details, refer to the tables in "Motionflow" (page 63).

Screen menu

ltem						
nem	Component signal Video GBR signal Computer signal					
Aspect* ¹	• (excluding preset memory numbers 76 to 79 and 96)	• (excluding preset memory numbers 78, 79 and 96)	_			

•: Adjustable/can be set

-: Not adjustable/cannot be set

*1: For further details, refer to the tables in "Aspect Mode" (page 62).

Note

When connecting a cable such as an HDMI cable, etc., check the type of the signal in the Information menu (page 42) and "Digital signal" (page 58), and check items that are adjustable/can be set.

Compatible 3D Signals

This unit accepts the following types of 3D signals.

Resolution	3D signal format
720/60p, 720/50p	Side-by-Side format
	Over-Under format*
	Frame packing*
1080/60i, 1080/50i	Side-by-Side format
	Frame packing
1080/24p	Side-by-Side format
	Over-Under format*
	Frame packing*
1080/60p, 1080/50p	Side-by-Side format
	Over-Under format

*: Mandatory 3D format of the HDMI standards.

3D Signals and Adjustable/Setting Items

Some items on the menus may not be available to adjust/set, depending on the 3D signals. The items that cannot be adjusted are not displayed on the menu. The following tables indicate those items.

	3D signals					
Item	720/60p, 720/50p	1080/60i, 1080/50i	1080/24p	1080/60p, 1080/50p		
Reality Creation	•	•	•	•		
Advanced Iris	-	-	-	-		
Lamp Control	•	•	•	•		

	3D signals					
ltem	720/60p, 720/50p	1080/60i, 1080/50i	1080/24p	1080/60p, 1080/50p		
Motionflow*1	•	•	•	•		
NR	-	-	-	-		
MPEG NR	-	-	-	-		
Smooth Gradation	-	-	-	-		
Film Mode	-	•	-	-		
x.v.Color	•	•	•	•		
HDR	_	_	_	_		
Aspect* ²	•	•	•	•		

•: Adjustable/can be set

-: Not adjustable/cannot be set

*1: The item is not available for Frame Packing/Over-Under on 720/60p, or Over-Under on 1080/ 60p.

*2: For further details, refer to the tables in "Aspect Mode" (page 62).

When the unit is set to convert 2D video images to 3D video images, some items on the menus may be not available to adjust/set, depending on the "3D Format" settings on the Function imanu. The items that cannot be adjusted are not displayed on the menu. The following tables indicate these items.

Item	3D signals				
ICIII	Over-Under	Side-by-Side	Simulated 3D		
Reality Creation	•	•	•		
Advanced Iris	-	-	-		
Lamp Control	•	•	•		
Motionflow*1	•	•	•		
NR	-	-	•		
MPEG NR	-	-	•		
Smooth Gradation	-	-	•		
Film Mode* ²	-	•	•		
x.v.Color	•	•	•		
HDR	-	-	-		
Aspect* ³	•	•	•		

•: Adjustable/can be set

-: Not adjustable/cannot be set

*1: The item is not available for Over-Under on 720/60p, or Over-Under on 1080/60p.

*2: The item is not available for 720/60p, or Over-Under on 1080/60p.

*3: For further details, refer to the tables in "Aspect Mode" (page 62).

Aspect Mode

Selectable items vary depending on the type of input signal or 3D format. For details, see the tables below. Items that cannot be selected are not displayed in the menu.

2D

Acceptable signals	4096 × 2160	3840 × 2160	1920 × 1080 1280 × 720	720 × 480 720 × 576	Others
Preset memory number (page 57)	76 to 79, 96	74, 75, 93 to 95	7, 8, 10 to 14	5,6	26, 32, 37, 45, 47, 50, 55
1.85:1 Zoom	-	-	•	٠	-
2.35:1 Zoom	-	•	•	٠	-
Normal	•* ¹	•	•	٠	•* ¹
V Stretch	-	-	•	٠	-
Squeeze	-	-	•	٠	-
Stretch	-	-	-	٠	-

*1: Not displayed in the menu as fixed at Normal.

3D

Acceptable signals	1920 × 1080, 1280 × 720					
3D format	Side-by-Side	Over-Under	Frame packing	Simulated 3D		
Preset memory number (page 57)	7, 8, 10 to 14	10 to 14	18 to 20, 71, 72	7, 8, 10 to 14		
1.85:1 Zoom	•	•	•	•		
2.35:1 Zoom	•	•	•	•		
Normal	•	•	•	•		
V Stretch	•	•	•	•		
Squeeze	•	•	•	•		
Stretch	-	_	-	_		

Motionflow

Selectable items vary depending on the type of input signal or 3D format.

For details, see the tables below. Items that cannot be selected are not displayed in the menu.

2D

Acceptable signals	1920 × 1080 1280 × 720 720 × 480 720 × 576	3840 × 2160 4096 × 2160	Others
Preset memory number (page 57)	5 to 8, 10 to 14	74 to 79, 93 to 96	26, 32, 37, 45, 47, 50, 55
Impulse	•	•	-
Combination	•	-	-
Smooth High	•	-	-
Smooth Low	•	-	-
True Cinema	•	-	-

3D

Acceptable signals	1920 × 1080, 1280 × 720							
3D format	Fra	ame packi	ing	()ver-Unde	r	Side-by-Side	Simulated 3D
Preset memory number (page 57)	18	19	20, 71, 72	10,12	11,13	14	7, 8, 10 to 14	7, 8, 10 to 14
Impulse	-	_	-	-	_	-	-	_
Combination	-	-	-	-	_	-	-	-
Smooth High	-	_	•	_	_	٠	٠	•
Smooth Low	-	•	•	-	٠	٠	•	•
True Cinema	-	_	-	-	-	-	_	-

Storage Conditions of Adjustable/Setting Items

Each adjustable/setting item is individually stored for each input connector. For further details, see the tables below.

Preset memory numbers for each input signal

Input	Preset memory numbers
HDMI 1 (2D)	5 to 8, 10 to 14, 26, 32, 37, 45, 47, 50, 55, 74 to 79, 93 to 96
HDMI 2 (2D)	
HDMI 1 (3D)	7, 8, 10 to 14, 18 to 20, 71, 72
HDMI 2 (3D)	

Picture menu

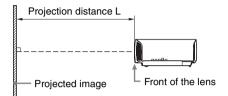
Item	Storage conditions
Calib. Preset	For each input connector
Reset	For each input connector and Calib. Preset
Reality Creation	
Advanced Iris	
Contrast Enhancer	
Lamp Control	
Motionflow	
Contrast	
Brightness	
Color	
Hue	
Color Temp.	
D93-D55	
Custom 1-5	
Gain R	For each Color Temp., D93-D55 and Custom 1-5
Gain G	
Gain B	
Bias R	
Bias G	
Bias B	
Sharpness	For each input connector and Calib. Preset
NR	
MPEG NR	
Smooth Gradation	
Film Mode	
Gamma Correction	
Color Correction	
Clear White	
x.v.Color	
HDR	
Color Space	

Screen menu

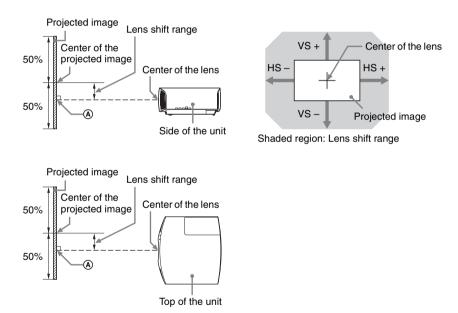
Item	Storage conditions
Aspect	For Picture Position 1.85:1, 2.35:1, or Custom 1-3
Blanking	

Projection Distance and Lens Shift Range

The projection distance refers to the distance between the front of the lens and the projected surface.

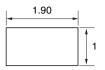


The lens shift range represents the distance in percent (%) by which the lens can be shifted from the center of the projected image. The lens shift range is regarded as 0% when the point (a) in the illustration (point where a line drawn from the center of the lens and the projected image cross at right angles) is aligned with the center of the projected image and full width or full height of the projected image is regarded as 100%.



- VS +: Vertical lens shift range (up) [%]
- VS -: Vertical lens shift range (down) [%]
- HS +: Horizontal lens shift range (right) [%]
- HS –: Horizontal lens shift range (left) [%]

When projecting in 1.90:1 (Native Full Display 17:9) format



Projection distance

Unit: m (inches)

Projection image size		Projection distance L	
Diagonal	Width × Height		
80" (2.03 m)	1.80 × 0.95 (71 × 37)	2.32 - 4.77 (91 - 187)	
100" (2.54 m)	2.25 × 1.18 (88 × 47)	2.90 - 5.97 (115 - 235)	
120" (3.05 m)	2.70 × 1.42 (106 × 56)	3.49 - 7.18 (138 - 282)	
150" (3.81 m)	3.37 × 1.78 (133 × 70)	4.38 - 8.98 (173 - 353)	
200" (5.08 m)	4.49 × 2.37 (177 × 93)	5.85 - 11.99 (231 - 472)	

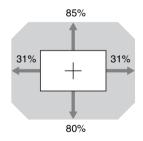
Projection distance formula

D: Projected image size (Diagonal)

Unit: m (inches)

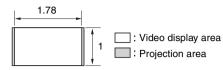
Projection distance L (minimal length)	Projection distance L (maximal length)
$L = 0.029432 \times D - 0.0434$	$L = 0.060197 \times D - 0.0420$
$(L = 1.158727 \times D - 1.7084)$	$(L = 2.369978 \times D - 1.6545)$

Lens shift range



$VS + = 85 - 2.742 \times (HS + or HS -) [\%]$	
$VS = 80 - 2.742 \times (HS + or HS -) [\%]$	
$HS + = HS - = 31 - 0.365 \times (VS + or VS -)$	[%]

When projecting in 1.78:1 (16:9) format



Projection distance

Unit: m (inches)

Projection image size		Projection distance L	
Diagonal	Width × Height		
80" (2.03 m)	1.77 × 1.00 (70 × 39)	2.44 - 5.01 (96 - 197)	
100" (2.54 m)	2.21 × 1.25 (87 × 49)	3.05 - 6.28 (121 - 247)	
120" (3.05 m)	2.66 × 1.49 (105 × 59)	3.67 – 7.55 (145 – 297)	
150" (3.81 m)	3.32 × 1.87 (131 × 74)	4.60 - 9.44 (181 - 371)	
200" (5.08 m)	4.43 × 2.49 (174 × 98)	6.15 - 12.61 (242 - 496)	

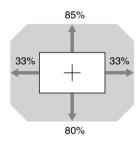
Projection distance formula

D: Projected image size (Diagonal)

Unit: m (inches)

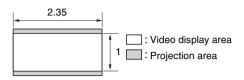
Projection distance L (minimal length)	Projection distance L (maximal length)
$L = 0.030934 \times D - 0.0434$ $(L = 1.217856 \times D - 1.7084)$	$L = 0.063269 \times D - 0.0420$ $(L = 2.490916 \times D - 1.6545)$

Lens shift range



$VS + = 85 - 2.576 \times (HS + or HS -) [\%]$	
$VS = 80 - 2.576 \times (HS + or HS -) [\%]$	
$HS + = HS - = 33 - 0.388 \times (VS + or VS -)$ [%]

When projecting in 2.35:1 format



Projection distance

Unit: m (inches)

Projection image size		Projection distance L	
Diagonal	Width × Height		
80" (2.03 m)	$1.87 \times 0.80 (74 \times 31)$	2.41 - 4.96 (95 - 195)	
100" (2.54 m)	$2.34 \times 0.99 (92 \times 39)$	3.02 - 6.22 (119 - 244)	
120" (3.05 m)	$2.80 \times 1.19 (110 \times 47)$	3.64 – 7.47 (143 – 294)	
150" (3.81 m)	3.51 × 1.49 (138 × 59)	4.55 – 9.35 (180 – 368)	
200" (5.08 m)	4.67 × 1.99 (184 × 78)	6.08 - 12.48 (240 - 491)	

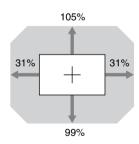
Projection distance formula

D: Projected image size (Diagonal)

Unit: m (inches)

Projection distance L (minimal length)	Projection distance L (maximal length)
$L = 0.030617 \times D - 0.0434$	$L = 0.062621 \times D - 0.0420$
$(L = 1.205377 \times D - 1.7084)$	$(L = 2.465393 \times D - 1.6545)$

Lens shift range

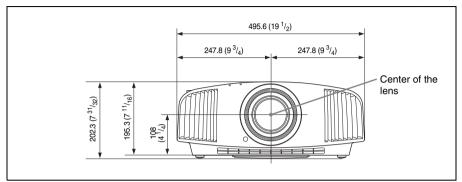


$VS + = 105 - 3.387 \times (HS + or HS -) [\%]$
$VS = 99 - 3.387 \times (HS + or HS -) [\%]$
$HS + = HS - = 31 - 0.295 \times (VS + or VS -) [\%]$

Dimensions

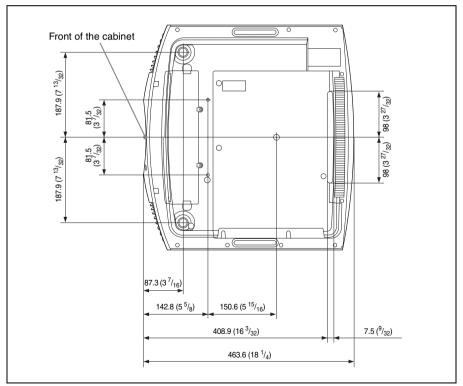
Front

Unit: mm (inches)



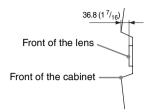
Bottom

Unit: mm (inches)



The distance between the front of the lens and the front of the cabinet

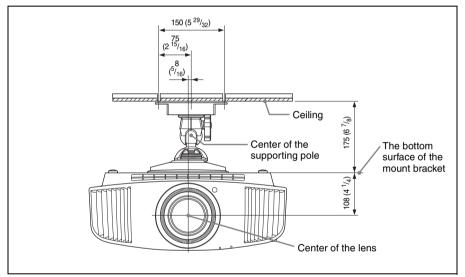
Unit: mm (inches)

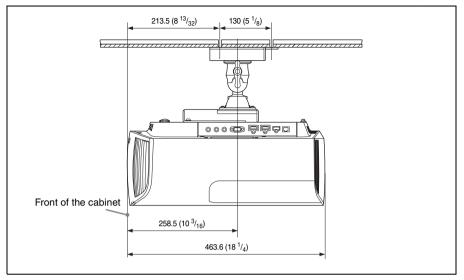


Attaching the PSS-H10 projector suspension support

Front view

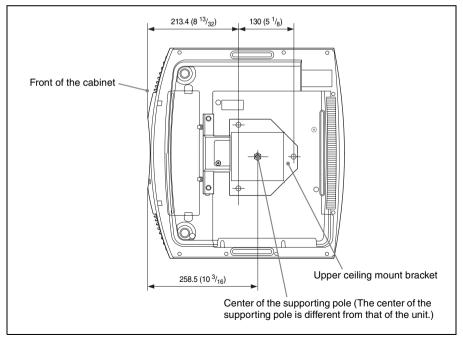
Unit: mm (inches)





Top view

Unit: mm (inches)



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klibc and jemalloc

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dhcpd

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pcre

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Index

Numerics

3D glasses	
3D glasses communication range	16
Using the 3D glasses	16
3D Settings	
2D-3D Display Sel. (Select)	36
3D Brightness	36
3D Depth Adjust	37
3D Format	36
Simulated 3D Effect	37
3D video	16

A

Advanced Iris	
All Reset	35
Anamorphic Lens	39
Aspect	
1.85:1 Zoom	19, 33
2.35:1 Zoom	19, 33
Normal	20, 33
Squeeze	20, 33
Stretch	21, 33
V Stretch	20, 33
Auto Calibration	

В

Blanking	 3
Brightness	 7

С

Calib. Preset	
Bright Cinema	25
Bright TV	25
Cinema Film 1	25
Cinema Film 2	25
Game	25
Photo	25
Reference	25
TV	25
User	25
Cinema Black Pro	26
Cleaning	55
Clear White	
Color	27
Color Correction	29
Color Space	30
Color Temp. (Temperature)	
• • • •	

Compatible 3D signals	60
Connecting to Video equipment or a	
computer	13
Connectors	4
Contrast	27
Contrast Enhancer	26
Control panel	5

D

Dimensions	69
Dynamic Range	37

Е

F

Film Mode

G

Н

HDMI Signal Format	37
HDR	29
High Altitude Mode	34
Hue	27

I

Image Flip	
Input Lag Reduction	
Input signals and adjustable/setting	
items	59
IR Receiver	39

L

Lamp Control	
Lamp Setting	
Lamp Timer	42
LAN connector	4, 43
Language	
Lens adjustment window	12
Lens Control	39
Location of controls	
Front/Right side	4
Rear/Left side/Bottom	5

Μ

Menu	
Advanced Picture	

Function	36
Information	42
Installation	39
Operation	23
Picture	
Screen	32
Setup	34
Menu Position	
Messages	
Caution	50
Warning	
Motionflow	30
MPEG NR (MPEG Noise Reduction) .	28

Ν

Network Management	
Network Setting	
NR (Noise Reduction)	

Ρ

Panel Alignment	40
Picture Position	
Picture Position	
Using the Picture Position	17
Picture position adjustment	
Power Saving	35
Preset memory number	
Preset mode	
BRT CINE	
BRT TV	
CINEMA FILM 1	
CINEMA FILM 2	
GAME	
РНОТО	
REF	
TV	
USER	
Preset signals	57
Projecting the Picture	15
Projection distance	66, 67, 68
Projection distance and lens shift	
range	65

R

Reality Creation	26
Remote control	6
Remote control detector	. 4, 5
Remote Start	34
Replacing the lamp	52
Reset	25
Resetting the items	24

S

Settings Lock	37
Sharpness	
Signal type	
Smooth Gradation	
Software Version	42
Specifications	56
Status	

Т

Test Pattern	37
Trigger Select	39
Troubleshooting	46
Turning off	
Turning on	8

U

Updating the software	
-----------------------	--

W

Warning indicators	4,	49
--------------------	----	----

Х

x.v.Color		29,	51	
-----------	--	-----	----	--

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