SONY

Help Guide

Data Projector
VPL-PHZ61/PHZ51

This manual is for those who encounter issues or have questions when using the Data Projector.
Not all models are available in all countries and area. Please check with your local Sony Authorized Dealer.

Using Network Features

Data Projector
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Checking the Supplied Accessories

Confirm that the following components are included. The () indicates the quantity of the component.

- Remote Commander (RM-PJ8) (1)
- Lithium battery (CR2025) (1)
  The battery is already installed. Before using the Remote Commander, remove the insulation film.
- AC power cord (1)
- Light shield (1)
- Setup Guide (1)

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Inserting the Battery into the Remote Commander
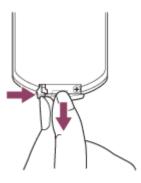
The lithium battery is attached to the Remote Commander at the time of purchase. Before using the Remote Commander, remove the insulation film.
If the Remote Commander can no longer be operated, exchange the lithium battery for a new one by the following procedure.

1   **Pull out the lithium battery compartment.**
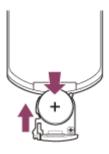
Pull the battery compartment toward you while releasing the lock.

2   **Insert a lithium battery.**

The lithium battery should be placed in the compartment with the plus side facing up.
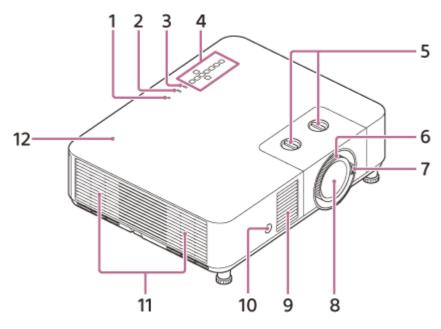
3   **Close the lithium battery compartment.**

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Parts and Controls (Main Unit)

Top/Front /Right

1. **Light sensor**
   Detects the surrounding brightness.
2. **ON/STANDBY indicator**
3. **WARNING indicator**
4. **Control panel**
5. **Lens shift dial**
6. **Focus ring**
7. **Zoom lever**
8. **Projection lens**
9. **Ventilation holes (intake)**
10. **Remote control receiver**
11. **Ventilation holes (exhaust)**
12. **Top cover**

Rear/Bottom

1. **Antitheft bar**

   For attaching theft prevention chains (wires) and such sold commercially.

2. **Front feet (adjustable)**

3. **Air filter cover**

4. **Ventilation holes (intake)**

5. **Speaker**

6. **Antitheft lock**

   For attaching theft prevention cables manufactured by Kensington.

   For details, visit the Kensington website.

   https://www.kensington.com/

7. **Terminals**

8. **Remote control receiver**

Caution

Do not place anything near the ventilation holes. The temperature may rise inside the unit, leading to a possible malfunction or fire. Do not place your hand or easily deformable objects near the ventilation holes (exhaust) and its vicinity. Doing so may result in the burning or deformation of these objects.

Related Topic
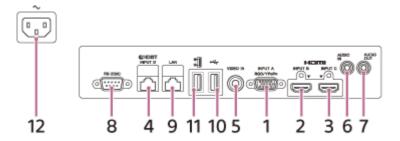
- Parts and Controls (Connection Terminals)
- Parts and Controls (Remote Commander and Control Panel)
- Cleaning the Outer Panel/Air Filter of the Projector
- Replacing/Discarding the Air Filter
- Reading the Indicator

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Parts and Controls (Connection Terminals)

1. **Input A (INPUT A)**
   Video: RGB/Y PB PR input terminal (RGB/Y PB PR)
2. **Input B (INPUT B)**
   Video: HDMI input terminal (HDMI)
   Audio: HDMI input terminal (HDMI)
3. **Input C (INPUT C)**
   Video: HDMI input terminal (HDMI)
   Audio: HDMI input terminal (HDMI)
4. **Input D (INPUT D)**
   HDBaseT terminal (HDBaseT)
5. **Video (VIDEO IN)**
   Video: Video input terminal
6. **Audio (AUDIO IN)**
   Audio: Audio input terminal
7. **Audio (AUDIO OUT)**
   Audio: Audio output terminal
8. **RS-232C terminal (RS-232C)**
   A control terminal compliant to RS-232C. Connect to the RS-232C computer terminal with an RS-232C cable (cross).
9. **LAN terminal**
10. **USB terminal (Type A) (↤⛾)**
    Terminal for software update
11. **USB terminal (Type A)**
    Dedicated terminal for power supply. USB power supply up to 5 V/2 A is available.
12. **AC IN socket (∿)**
    Connect the supplied AC power cord.

Related Topic
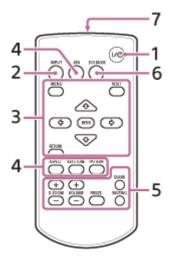
- Connecting to a Computer with an RGB Output Terminal
- Connecting to a Computer with an HDMI Output Terminal
- Connecting to a Computer via a Hub or Router
- Connecting to a Video Device with a Video Output Terminal
- Connecting to a Video Device with a Y PB PR Output Terminal
- Connecting to a Video Device with an HDMI Output Terminal
- Connecting to Audio Equipment
- Connecting to an HDBaseT™ Device
- Supplying the power to an external device

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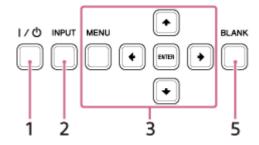
Parts and Controls (Remote Commander and Control Panel)

Remote Commander

Control panel

1. **| / ⏻ (On/Standby) key**
   Turn on/Standby.
2. **INPUT (Input selection) key**
   Select the input.
3. **MENU (Menu) key**
   RESET (Reset) key
   ENTER (Enter)/ ▲ / ▼ / ◀ / ▶ (Arrow) keys
   RETURN (Return) key
   Perform menu operations, etc.
4. **ASPECT (Aspect) key**
   Switch the aspect ratio of the projected image.
   KEYSTONE (Trapezoidal correction) key/PATTERN (Pattern) key
   Adjust the projected image.
   APA (Auto Pixel Alignment) key
   Adjust the input signal to fit to the screen automatically when there is a computer signal being input from the RGB input terminal (Input A).
5. **D ZOOM (Digital zoom) +/- key**
   Zoom in or out on a part of the projected image. This can be used when there is a computer signal being input. However, depending on the input signal resolution, it may not be usable.
   BLANK (Eliminate image) key
   Temporarily turn off the projected image. Press again to release.
   MUTING (Mute) key
   When sound is output, temporarily mute the audio. Press again to release.

VOLUME (Sound volume) +/- key
Adjust the sound volume.
FREEZE (Freeze) key
Temporarily freeze the image. Press again to release.

6. **ECO MODE (Eco Mode) key**
Allows you to set to Eco Mode.

7. **Infrared transmitter**

Remote Commander Operation

- Direct the Remote Commander toward the remote control receiver.
- The shorter the distance between the Remote Commander and the projector, the wider the angle within which the Remote Commander can control the projector.
- If there is any obstruction between the Remote Commander and the remote control receiver on the projector, the projector may not be able to receive signals from the Remote Commander.

Related Topic

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Precautions When Connecting
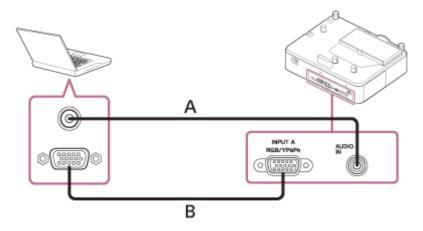
- Turn off all devices before making any connections.
- Use the proper cables for each connection.
- Firmly insert the cable plugs. Loose connections may reduce the performance of picture signals or cause a malfunction. When unplugging a cable, be sure to grip the plug, not the cable itself.
- For more information, refer also to the instruction manual of the device to be connected.
- Use a no-resistance audio cable.

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Connecting to a Computer with an RGB Output Terminal

Connect the INPUT A terminal to a computer's RGB output terminal and the AUDIO IN terminal to a computer's audio output terminal.

A: Audio cable (stereo mini plug) (not supplied)
B: Mini D-sub 15-pin cable (not supplied)

Hint
- For the screen settings of your computer, it is recommended that you set the resolution of the external monitor to 1,920 × 1,200 pixels.

Related Topic
- Parts and Controls (Connection Terminals)
- Precautions When Connecting
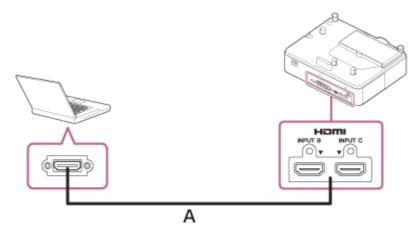
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Connecting to a Computer with an HDMI Output Terminal

Connect the INPUT B terminal or INPUT C terminal to a computer's HDMI output terminal.

A: HDMI cable (not supplied)

> **Note**
> - Use an HDMI-compatible device with the HDMI Logo.
> - Use a "Premium High Speed" HDMI cable on which the cable type logo is specified. If using a cable other than a Premium High Speed cable, 4K images may not be displayed correctly.
> - The HDMI terminal of this projector is not compatible with DSD (Direct Stream Digital) signals and CEC (Consumer Electronics Control) signals.

Related Topic
- Parts and Controls (Connection Terminals)
- Precautions When Connecting

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Connecting to a Computer via a Hub or Router

Connect the LAN terminal and the computer LAN terminal via a hub or router.

A: LAN cable (straight) (not supplied)
B: Hub or router, etc.

> **Note**
> - When using network features via the LAN terminal, be sure to check if [LAN Setting] is set to [LAN Port].
> - Connect the projector to the network that is constructed to control the access from the internet, such as LAN. If the projector is connected directly to the internet, the security risk is increased.
> - **When you monitor and control the projector via the network, display the control window of the projector with a web browser and enable the desired control protocol.**

Related Topic
- Parts and Controls (Connection Terminals)
- Precautions When Connecting
- Menu Operation: HDBaseT Settings
- Setting Advertisement
- Setting PJ Link
- Setting PJ Talk
- Setting ADCP

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Connecting to a Video Device with a Video Output Terminal

Connect the VIDEO IN terminal to a video device's video output terminal, and the AUDIO IN terminal to a video device's audio output terminal.

A: Audio cable (Pin plug x 2 - Stereo mini plug) (not supplied)
B: Video cable (not supplied)
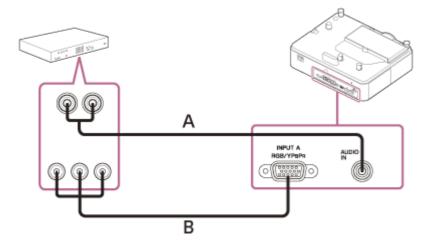
Related Topic

- Parts and Controls (Connection Terminals)
- Precautions When Connecting

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Connecting to a Video Device with a Y PB PR Output Terminal

Connect the INPUT A terminal to a video device's Y PB PR output terminal, and the AUDIO IN terminal to a video device's audio output terminal.

A: Audio cable (Pin plug x 2 - Stereo mini plug) (not supplied)
B: Component - Mini D-sub 15-pin cable (not supplied)
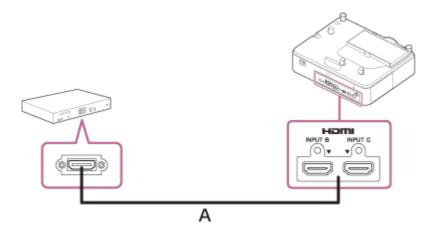
Related Topic
- Parts and Controls (Connection Terminals)
- Precautions When Connecting

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Connecting to a Video Device with an HDMI Output Terminal

Connect the INPUT B terminal or INPUT C terminal to a video device's HDMI output terminal.

A: HDMI cable (not supplied)

> **Note**
>
> - Use an HDMI-compatible device with the HDMI Logo.
>
> - Use a "Premium High Speed" HDMI cable on which the cable type logo is specified. If using a cable other than a Premium High Speed cable, 4K images may not be displayed correctly.
>
> - The HDMI terminal of this projector is not compatible with DSD (Direct Stream Digital) signals and CEC (Consumer Electronics Control) signals.

Related Topic

- Parts and Controls (Connection Terminals)
- Precautions When Connecting

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Connecting to Audio Equipment

By connecting the AUDIO OUT terminal and the audio input terminal of speakers with built-in amplifiers or other such devices, you can output the audio fed into the projector through the audio device. When [Speaker Setting] is set to [Always On] and the light is off, Input A becomes active.

A: Audio cable (Stereo mini plug) (not supplied)

Related Topic
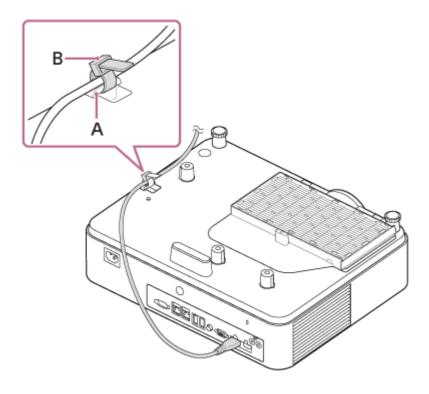
- Parts and Controls (Connection Terminals)
- Precautions When Connecting
- Menu Operation: Speaker Setting

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Fixing the HDMI Cable to the Projector

If you wish to fix the HDMI cable to the projector, attach a commercially available cable tie or similar item (B) to the antitheft bar (A) on the bottom surface, and secure it as shown in the image.

Related Topic

- Parts and Controls (Main Unit)

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Connecting to an HDBaseT™ Device
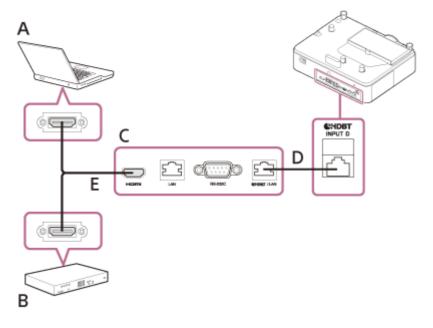
The HDBaseT transmitter is used when connecting the projector to a computer, video device, or network equipment.

Note

- Ask a professional or Sony dealer to perform wiring. If wiring has been insufficiently performed, it affects the transmission characteristics of the cable, and causes broken or unstable images.

- Connect the cable directly to the HDBaseT transmitter without going through a hub or router.

- Use cables that meet the following conditions.
  - CAT5e or higher
  - Shielded type (covering connectors)
  - Straight wire connection
  - Single wire

- When installing the cables, use a cable tester, cable analyzer, or similar device to check if the cables meet the CAT5e or higher requirement. If there is a transit connector between this unit and the HDBaseT transmitter, include it when measuring.

- To reduce the affect of noise, install and use the cable in a manner where it is not rolled up and it is as straight as possible.

- Install the cable away from the other cables (especially the power cable).

- When installing multiple cables, do not bind them and keep the running parallel distance as short as possible.

- The transmittable distance of the cable is 100 m (approx. 328 feet) maximum. If it exceeds 100 m (approx. 328 feet), it may cause broken images or a malfunction in LAN communication. Do not use the HDBaseT transmitter beyond the maximum transmittable distance of the cable.

- For operation or function problems caused by devices of other manufacturers, contact the relevant manufacturer.

Connecting to a computer/video device

Connect the HDBaseT terminal to the HDMI output terminal on a computer or video device.

A: Computer
B: Video device
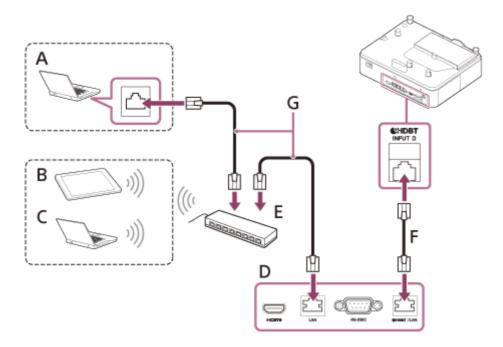
C: HDBaseT transmitter
D: LAN cable: STP cable with CAT5e or higher (straight type) (not supplied)
E: HDMI cable (not supplied)

Connecting to a network equipment (using an HDBaseT terminal)

The HDBaseT terminal is used when connecting the projector to a network equipment to control the projector.

A: Computer (Wired connection)
B: Tablet PC/Smartphone
C: Computer (Wireless connection)
D: HDBaseT transmitter
E: Hub, wireless router
F: LAN cable: STP cable with CAT5e or higher (straight type) (not supplied)
G: LAN cable (straight type) (not supplied)

Note

- When using the network features, make sure that [LAN Setting] is set to [via HDBaseT] under [HDBaseT Settings].

- Connect the projector directly to the HDBaseT transmitter without going through a hub or router.

- When connecting to XTP Systems manufactured by Extron Electronics, it is necessary to set [Extron XTP] to [On] under [HDBaseT Settings].

- When you monitor and control the projector via the network, access the Control Window of the projector via a Web browser and enable the desired control protocol.
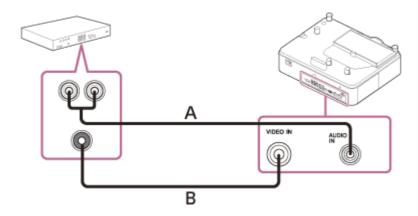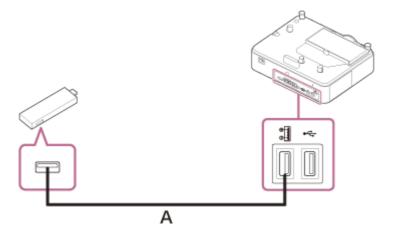

Related Topic

- Parts and Controls (Connection Terminals)
- Precautions When Connecting
- Menu Operation: HDBaseT Settings
- Uses for Network Features

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Supplying the power to an external device

The unit supplies power (5 V/2 A maximum) via the USB cable to the external device.
Connect the USB terminal (for power supply only) to the external device.

A: USB cable (Type A) (not supplied)

> **Note**
>
> - Use external devices with the appropriate specification for using this unit.
>
> - If you connect the unit in wrong ways, the external device may cause a malfunction. In this case, Sony assumes no responsibility.
>
> - If Standby Mode is [Low], you will no longer be able to supply the power while in Standby Mode.
>
> - A power consumption of the connected device that exceeds the sharable power (5 V/2 A) cannot be used.

Related Topic

- Parts and Controls (Connection Terminals)
- Precautions When Connecting

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Turning Power On/Off

1 **Plug the AC power cord into a wall outlet.**

2 **Turn on the projector.**

Press the ▌/ ⏻ (On/Standby) key on the main unit or the Remote Commander.

Turning Power Off

1. Press the ▌/ ⏻ (On/Standby) key on the main unit or the Remote Commander.
The projector starts shutdown and turns off.
For long-term use, turn off the projector when not in use.
2. Unplug the AC power cord from the wall outlet.

Related Topic
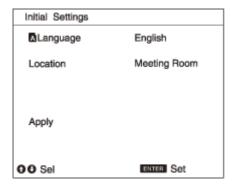
● Parts and Controls (Main Unit)
● Parts and Controls (Remote Commander and Control Panel)

Data Projector
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Making Initial Settings

When you turn on the power of the unit for the first time after purchase, the initial setting screen is displayed. Follow the steps below to make the settings.

Initial Settings

```
■Language        English

Location         Meeting Room




Apply


●● Sel              [ENTER] Set
```

1. **Select the display language.**

   1. Press the ▲ (Up) or ▼ (Down) key to select "Language", then press the ENTER key.
   2. Press the ▲ / ▼ / ◀ / ▶ (Up/Down/Left/Right) keys to select a language, then press the ENTER key.

2. **Set the installation location.**

   1. Press the ▲ (Up) or ▼ (Down) key to select "Location", then press the ENTER key.
   2. Press the ▲ (Up) or ▼ (Down) key to select an installation location, then press the ENTER key.

3. **Save the settings.**

   Press the ▲ (Up) or ▼ (Down) key to select "Apply", then press the ENTER key.
   When the initial setup is complete, the projector starts up.

Related Topic

- Menu Operation: Language

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Projecting Images

The size of the projected image changes depending on the distance from the projector to the screen (projection distance). Install the projector so that it matches the screen size.

1 **Press the ▌/ ⏻ (On/Standby) key and turn on the projector.**

2 **Turn on the connected device.**

3 **Select the input source.**

Press the INPUT key on the main unit or the Remote Commander to display the input select window. Press the INPUT key repeatedly or press the ▲ / ▼ (Up/Down) key to select the image to be projected.

Input
Video
Input-A RGB
Input-B HDMI
Input-C HDMI
Input-D HDBaseT

◖◗ Sel ▭ Skip

4 **Change the computer screen output destination to an external display.**

How the output destination is changed varies depending on the computer.
Ex.)

|Fn| + |F7|

5 **Adjust the focus, size and position of the projected image.**

Related Topic

- Projection Distance
- Lens Shift Range
- Adjusting the Screen Focus
- Adjusting the Screen Size
- Adjusting the Screen Position

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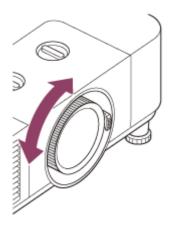
Adjusting the Screen Focus

Turn the focus ring to adjust the focus.

Related Topic

- Parts and Controls (Main Unit)

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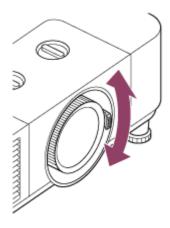
Adjusting the Screen Size

Turn the zoom lever to adjust the size.

Related Topic
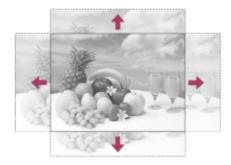
- Parts and Controls (Main Unit)

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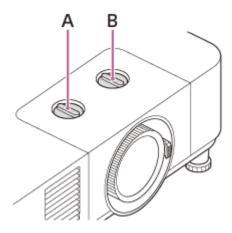
Adjusting the Screen Position

Adjusting the tilt of the projector by using lens shift

Turn the H lens shift dial to adjust the lens horizontally or turn the V lens shift dial to adjust the lens vertically.

A: H lens shift dial
B: V lens shift dial
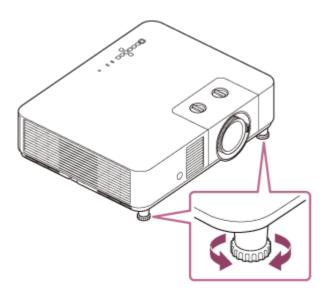
If you keep turning the lens shift dial, it will be difficult to turn it further at some point. In that case, turn the lens shift dial in the opposite direction to find the best position. For details on the adjustment range, refer to "Lens Shift Range."

Note

- While adjusting the lens shift, be careful not to look into the lens.

- When turning the H lens shift dial, the lens shift may move up or down. (When turning the V lens shift dial, the lens shift may move right or left.) In that case, adjust the lens shift with each dial again.

Adjusting the tilt of the projector with the front feet (adjustable)

Adjust the position of the projected screen by changing the angle of the projector using the front feet (adjustable).

Note

- When adjusting the front feet (adjustable), be careful not to get your fingers caught.

- Do not forcefully press down on the projector with the front feet (adjustable) extended. This may result in malfunction.

Related Topic

- Parts and Controls (Main Unit)
- Lens Shift Range

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Changing the Screen Aspect Ratio

Pressing the ASPECT key on the Remote Commander switches the aspect ratio of the projected screen.

Hint

- The screen aspect ratio can also be set from [Aspect] in the ⊞ [Screen] menu.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: Aspect

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Correcting a Vertical Trapezoid

If the screen is trapezoidal, perform a keystone correction.

1 **Press the KEYSTONE key on the Remote Commander once.**
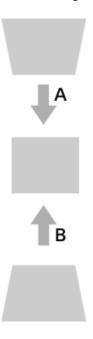
The adjustment menu will be displayed.
You can also display the adjustment menu from [V Keystone] in the 🖳 [Installation] menu.

2 **Adjust the value with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

A: Increasing the value in the positive direction makes the upper side screen width smaller.
B: Increasing the value in the negative direction makes the lower side screen width smaller.

Press the RESET key to return to the non-corrected state.

> **Note**
>
> - Because keystone correction is an electronic form of correction, the image quality may be reduced.
>
> - If vertical correction (V keystone correction) and horizontal adjustment (H keystone correction) are performed at the same time, the values in each adjustment menu may not reach the maximum.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: V Keystone

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Correcting a Horizontal Trapezoid

If the screen is trapezoidal, perform a keystone correction.

1   **Press the KEYSTONE key on the Remote Commander twice.**

    The adjustment menu will be displayed.
    You can also display the adjustment menu from [H Keystone] in the 🖳 [Installation] menu.

2   **Adjust the value with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

    A: Increasing the value in the negative direction makes the left side of the screen smaller.
    B: Increasing the value in the positive direction makes the right side of the screen smaller.

Press the RESET key to return to the non-corrected state.

> **Note**
>
> - Because keystone correction is an electronic form of correction, the image quality may be reduced.
>
> - If vertical correction (V keystone correction) and horizontal adjustment (H keystone correction) are performed at the same time, the values in each adjustment menu may not reach the maximum.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: H Keystone

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Correcting Screen Distortion

You can correct image twist with the warp correction feature.
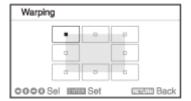
1 **Press the KEYSTONE key on the Remote Commander three times.**

The guide will be displayed.
You can also display the guide menu from [Warping] - [Adjust] in the 🖳 [Installation] menu.
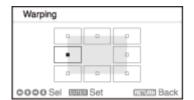
2 **Select the adjustment point you want to correct with the ⬆/⬇/⬅/➡ (Up/Down/Left/Right) keys.**
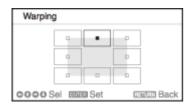
When correcting the corner position of the image, select the corner adjustment point.

When correcting the deflection on the left/right sides of the image, select the left/right adjustment point.
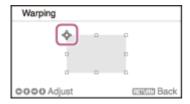
When correcting the deflection on the top/bottom sides of the image, select the top/bottom adjustment point.
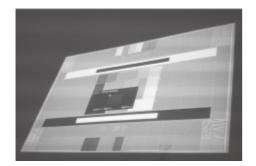
3 **Press the ENTER key.**

The selected corner becomes a cursor display (⬦).

4 **Adjust the image distortion with the ⬆/⬇/⬅/➡ (Up/Down/Left/Right) keys.**

When correcting the corner of the image

Adjust the position of the corner using the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.

When correcting deflection on the left/right sides of the image

You can adjust the center point of deflection using the ⬆ / ⬇ (Up/Down) keys. For the range of deflection, use the ⬅ / ➡ (Left/Right) keys. You can adjust the left/right side independently.

When correcting deflection on the top/bottom sides of the image

You can adjust the center point of deflection using the ⬅ / ➡ (Left/Right) keys. For the range of deflection, use the ⬆ / ⬇ (Up/Down) keys. You can adjust the top/bottom independently.

Press the RESET key to return to the original screen.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: Warping

Data Projector
VPL-PHZ61/PHZ51

Displaying Patterns

Pressing the PATTERN key on the Remote Commander allows you to display the adjustment pattern or ruled line pattern on the projected screen. Every time you press the PATTERN key, the pattern to be displayed switches.
Continue pressing the PATTERN key to return to the original screen.

Hint

- The ruled line pattern can be used as auxiliary lines when drawing text and figures on a whiteboard or blackboard without using a computer.

- There are 2 types of colors for the lines of the ruled line pattern so you can select a line that is easier to see according to the color of the projected screen.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)

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Using the Auto Adjustment Function

When feeding a computer signal from the RGB input terminal (Input A), pressing the APA (Auto Pixel Alignment) key on the Remote Commander allows the projected screen phase, pitch, and shift to be automatically adjusted.

Pressing the APA key once more during adjustment will cancel the adjustment.

Hint

- APA can also be performed from [Adjust Signal] in the ⊞ [Screen] menu.

- Selecting [On] from [Smart APA] in the ⊟ [Function] menu will automatically perform APA when a computer signal is fed from the RGB input terminal (Input A).

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: Adjust Signal
- Menu Operation: Smart APA

Data Projector
VPL-PHZ61/PHZ51

Use the Intelligent Setting Function

Optimize the image quality settings, light settings, and system cooling (fan speed) just by choosing the location that matches the environment where the projector is being used. The [Intelligent Setting] helps the projector remain in stable operation for long periods of time.

1 **Press the MENU key to display the menu screen.**

2 **Set [Intelligent Setting] in the** 🔳 **[Projection Setting] menu to [On] and press the** ➡ **(Right) key.**

3 **Select the location the projector is being used.**

[Meeting/Class Room]

Optimizes the text and graphic quality so that they are displayed clearly. This is suitable for use in meeting rooms and classrooms.

[Museum]

Optimizes the color quality so that colors are reproduced accurately. This is suitable for use in quiet places such as galleries and museums.

[Entertainment]

Optimizes the image quality to achieve balance. This is suitable for use at theme parks, public entertainment facilities, conference rooms in the exhibition hall, and so on.

4 **Select [Apply] and press the ENTER key.**

Related Topic
● Menu Operation: Intelligent Setting

Data Projector
VPL-PHZ61/PHZ51

Using the Digital Zoom Function

Enlarge a portion of the projected image. This can be used when there is a computer signal being input. However, it may not be usable depending on the input signal resolution.

1 **Press the D ZOOM + key to display the digital zoom icon on the projected screen.**

2 **Adjust the image position with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

3 **Press the D ZOOM + key to enlarge an image.**

4 **Repeatedly press the D ZOOM + key or the D ZOOM - key to change the magnification ratio.**

The magnification ratio can be changed from 1x to 4x.
When you select 1x, you cannot adjust the image position.

To return to the original image, press the RESET key.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)

SONY
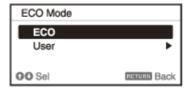
Data Projector
VPL-PHZ61/PHZ51

Using Eco Mode
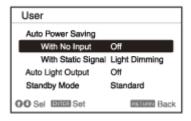
The [With No Input] and [With Static Signal] of the Eco Mode settings are easy to use.

> **Note**
> * If [ECO Mode] is set to [ECO] or if [Standby Mode] for [User] is set to [Low], you will no longer be able to use network control functions while in Standby Mode. If performing external control via networks and network control functions and so on, either do not select [ECO] or do not set [Standby Mode] for [User] to [Low].

1 Press the ECO MODE key to display the [ECO Mode] menu.

2 Press the ▲ / ▼ (Up/Down) key or the ECO MODE key, then select either [ECO] or [User] mode.

* [ECO]: Set each setting to the value that saves the most energy.

  – With No Input: [Standby]
  – With Static Signal: [Light Dimming]

* [User]: Configure the Eco Mode settings manually.

3 Press the RETURN key to return to the previous screen.

Related Topic
* Parts and Controls (Remote Commander and Control Panel)
* Menu Operation: ECO

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Data Projector
VPL-PHZ61/PHZ51

Copying the Projector Settings and Downloading to Other Projectors

You can copy the projector settings to a USB drive and download them to other projectors.
This function can be used when applying the same settings to multiple projectors of the same model.

Note

- This projector has been confirmed to be compatible with USB 2.0 drives with capacities of up to 8 GB. However, it is not guaranteed to work with all USB drives.
  If formatting your USB drive, be sure that the file system is set to FAT32. Formatting with any other type of file system will make the drive incompatible with the projector.

- Use an empty USB drive with no files or folders stored on it. If there are any files or folders stored on the USB drive, delete them before use.

- If the USB drive you are using has projector setting data, copying of the settings will not start.

- If the firmware versions of the copy source projectors and download destination projectors are different, the settings copied cannot be downloaded.

1 **Turn off the power of the copy source projector, then unplug the AC power cord.**

2 **Insert the USB drive into the USB terminal of the copy source projector.**

3 **Plug the AC power cord to the wall outlet while pressing and holding ▲ (Up) of the ENTER (Enter)/ ▲ / ▼ / ◄ / ► (Arrow) key on the copy source projector.**

Press and hold ▲ (Up) until the ON/STANDBY indicator flashes in orange.

4 **When the ON/STANDBY indicator starts flashing in orange, release ▲ (Up).**

When copying of the settings is complete, the ON/STANDBY indicator is lit in red.

5 **Remove the USB drive from the copy source projector.**

6 **Turn off the power of the download destination projector, then unplug the AC power cord.**

7 **Insert the USB drive with the settings copied into the USB terminal of the download destination projector.**

8 **Plug the AC power cord to the wall outlet while pressing and holding ▼ (Down) of the ENTER (Enter)/ ▲ / ▼ / ◄ / ► (Arrow) key on the download destination projector.**

Press and hold ▼ (Down) until the ON/STANDBY indicator flashes in orange.

9 **When the ON/STANDBY indicator starts flashing in orange, release ▼ (Down).**

When downloading of the settings is complete, the ON/STANDBY indicator is lit in red.

10   **Remove the USB drive from the download destination projector.**

Settings that can be copied/downloaded

OSD menu

Projection Setting

- Intelligent Setting
- Picture Mode
- Contrast
- Brightness
- Color
- Hue
- Color Temp.
- Sharpness
- Light Settings

  - Dynamic Control
  - Light Output Mode
  - Light Out Control

- Expert Setting

  - Ambiance
  - Reality Creation
  - Bright View
  - Gamma Mode
  - Color Space
  - Color Correction

Screen

- Aspect
- Overscan

Function

- Volume
- Speaker
- Speaker Setting
- Smart APA
- CC Display
- Background
- Start Up Image

Operation

- Language
- Menu Position
- Status
- IR Receiver
- ID Mode

Connection/Power

- Network Setting

  - Communication Mode

- HDBaseT Settings

- LAN Setting
- RS-232C Setting
- Extron XTP
- Dynamic Range

  - Input-B
  - Input-C
  - Input-D

- HDMI Cable
- Input-A Signal Sel.
- ECO

  - With No Input and With Static Signal of Auto Power Saving
  - Auto Light Output
  - Standby Mode
  - Remote Start

- Auto Input Select
- Auto Power On
- Direct Power On

Installation

- Image Flip
- High Altitude Mode
- Filter Timer Notif
- Screen Aspect

WEB menu

Setting

- Setting

  - Timezone
  - Use NTP sever
    - NTP Server
  - Manual(Local)
    - Date(yyyy-mm-dd)
    - Time(hh:mm:ss)

E-mail Report

- E-mail Report

  - Send To
  - CC
  - Report Timing

- E-mail Account

  - User Name
  - Password
  - SMTP Server

ADCP

- ADCP

  - Start ADCP Service
  - Requires Authentification

- Port No.
- Timeout
- Host Address
  - Address list

Advertisement/PJ Talk/PJ Link

- Advertisement

  - Start Advertisement Service
  - Community
  - Port No.
  - Interval
  - Broadcast Address
    - Address list

- PJ Link

  - Start PJ Link Service
  - Requires Authentification

- PJ Talk

  - Start PJ Talk Service
  - Community
  - Port No.
  - Timeout
  - Host Address
    - Address list

DDDP/Crestron Control

- DDDP

  - Start DDDP Service

- Clinet

  - Start Crestron Control
  - IP Address
  - IPID
  - Port Number
  - TLS
  - User Name
  - Password
  - Auto Discovery
  - Room ID

- Server

  - Start Crestron Server
  - IPID
  - Port Number
  - TLS
  - User Name
  - Password

- Fusion in the cloud

  - Fusion in the cloud
  - URL
  - Port

— TLS

Certificate

- Communication Mode

SNMP

- SNMP
  - Start SNMP Service
  - Community
  - Community name
  - Rights
  - Trap destinations
    - Address list
  - Accept SNMP packets from any host
  - Accept SNMP packets from these hosts
    - Address list

Hint

- It takes about 30 seconds to start copying/downloading the settings.

- It takes about 2 minutes to complete copying the settings.

- It takes about 10 minutes to complete downloading the settings.

- After copying/downloading the settings, [Standby Mode] of the power supply is set to [Low].

Data Projector
VPL-PHZ61/PHZ51

Navigating Menus

Various projector adjustments and settings can be performed from the menu screen. Selecting an item with an arrow (▶) after the item name will display the items to be set in the next tier.

> **Note**
>
> • The images used in the explanation are for reference only. Please note that the items displayed may differ depending on the device you are using.

1 **Press the MENU key.**
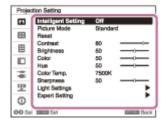
The menu screen will be displayed.

2 **Press the ⬆ / ⬇ (Up/Down) key to select the menu, then press either the ➡ (Right) key or the ENTER key.**

3 **Press the ⬆ / ⬇ (Up/Down) key to select an item, then press either the ➡ (Right) key or the ENTER key.**

To return to the configuration menu selection, press the ⬅ (Left) key or the RETURN key.

4 **Configure and adjust the items.**
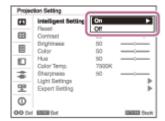
The configuration method differs depending on the item.
If a further tier is displayed, select the item you wish to configure in accordance with Step 3, then press the ENTER key to confirm the configuration.
To return to the configuration item selection, press the ⬅ (Left) key or the RETURN key. To reset the setting value of an item to its factory preset value, press the RESET key during setting or adjusting.

Navigating Pop-up Menus

Select items using the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) key.
Press the ENTER key to confirm the settings, and return to the previous screen.

Navigating Settings Menus

Select items using the ⬆ / ⬇ (Up/Down) key.
Press the ENTER key to confirm the settings, and return to the previous screen.

Navigating Adjustment Menus

When increasing a value, press the ⬆ (Up) or ➡ (Right) key.
When decreasing a value, press the ⬇ (Down) or ⬅ (Left) key.
Press the ENTER key to confirm the settings, and return to the previous screen.

5. **Press the MENU key to exit the menu screen.**

   If an operation has not been performed for some time, the menu screen will automatically disappear.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Intelligent Setting

Setting [Intelligent Setting] to [On] allows you to optimize the image quality settings, light settings, and system cooling (fan speed) just by choosing the location that matches the environment where the projector is being used. This setting helps the projector remain in stable operation for long periods of time.

1 **Press the MENU key.**

2 **Select** ▣ **[Projection Setting] - [Intelligent Setting] - [On] or [Off].**

3 **If [On] is selected, select the item you wish to configure in [Location].**

Settings

[Meeting/Class Room]
Optimizes the text and graphic quality so that they are displayed clearly. This is suitable for use in meeting rooms and classrooms.
[Museum]
Optimizes the color quality so that colors are reproduced accurately. This is suitable for use in quiet places such as galleries and museums.
[Entertainment]
Optimizes the image quality to achieve balance. This is suitable for use at theme parks, public entertainment facilities, conference rooms in the exhibition hall, and so on.

> **Note**
>
> - If [Intelligent Setting] is [On], [Picture Mode] in the ▣ [Projection Setting] menu cannot be configured.
>
> - If there is no usage environment that corresponds to the choices for [Location], then choose the location with the characteristics closest to your environment.
>   [Location] cannot be configured for each input terminal.

Related Topic
- Menu Operation: Picture Mode
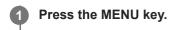
Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Picture Mode

Configure the image quality.

1 **Press the MENU key.**

2 **Select ▣ [Projection Setting] - [Picture Mode] - The desired setting.**

Settings

[Dynamic]
Sets the image quality to achieve balance between brightness and darkness.
[Standard]
Sets the image quality to achieve smooth and natural tones.
[Brightness Priority]
Makes the picture bright to suit a bright environment.

> **Note**
> - If [Intelligent Setting] in the ▣ [Projection Setting] menu is [On], [Picture Mode] cannot be configured.

Related Topic

- Menu Operation: Intelligent Setting

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Menu Operation: Reset

Return the image quality settings to their default values.

1   **Press the MENU key.**

2   **Select ![icon] [Projection Setting] - [Reset].**

Note

- The values of [Intelligent Setting], [Picture Mode] and [Custom 1] to [Custom 4] for [Color Temp.] in the ![icon] [Projection Setting] menu will not return to default.

Related Topic
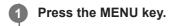
- Menu Operation: Intelligent Setting
- Menu Operation: Picture Mode

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Contrast

Adjust the image contrast.

1 **Press the MENU key.**

2 **Select [Projection Setting] - [Contrast] - Adjust the values.**

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

Data Projector
VPL-PHZ61/PHZ51

Data Projector
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Menu Operation: Brightness

Adjust the image brightness (luminance).

1 **Press the MENU key.**

2 **Select [Projection Setting] - [Brightness] - Adjust the values.**

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

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Color

Adjust the image color intensity.

1 **Press the MENU key.**

2 **Select ▣ [Projection Setting] - [Color] - Adjust the values.**

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

Note
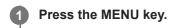
- When [Ambiance] is set to [On], the saturation is set automatically, and the [Color] menu is not displayed.

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Hue

Adjust the image color tone.

1 **Press the MENU key.**

2 **Select** **[Projection Setting] - [Hue] - Adjust the values.**
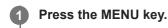
The higher the setting, the more greenish the image becomes. The lower the setting, the more reddish the image becomes.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Hue

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Color Temp.

Adjust the image color temperature.

1   **Press the MENU key.**

2   **Select** 📷 **[Projection Setting] - [Color Temp.] - The desired setting.**

Settings

[9300K]/[7500K]/[6500K]
The higher the temperature, the bluer the image tones become, and the lower the temperature, the redder the tones become.
[Brightness Priority]
Allows for the brightest projection image.
[Custom 1]/[Custom 2]/[Custom 3]/[Custom 4]
You can set and adjust the color temperature to suit your preference and save the setting. The factory settings are [9300K] for [Custom 1], [7500K] for [Custom 2], [6500K] for [Custom 3], and [Brightness Priority]for [Custom 4].

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Sharpness

Adjust the outlines of the image.

1 **Press the MENU key.**

2 **Select ▣ [Projection Setting] - [Sharpness] - Adjust the values.**

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

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Light Settings

Adjust the laser light brightness.

1 **Press the MENU key.**

2 **Select [Projection Setting] - [Light Settings] - The desired setting.**

Settings

[Dynamic Control]
[On]/[Off]: If set to [On], the brightness will automatically be adjusted according to the input image. For dark images, the brightness is adjusted as they are being projected, which can help save energy. Conversely, for bright images, the image brightness is not adjusted and the image remains bright.
[Light Output Mode]
Adjust the light source brightness.

- [Standard]: The image becomes bright and energy consumption increases.
- [Middle]: Energy consumption decreases, but the image becomes dark.
- [Extended]: The image becomes dark, but projection becomes possible for long periods of time.
- [Custom]: You can adjust brightness as prefer.

[Light Out Control]
Set the time until the light turns off when the black image is input. When the image signal other than the black image is input after the light turns off, the light turns on again.

- [Quick]: The light turns off soon when the black image is input.
- [Standard]: The light turns off five seconds later when the black image is input.
- [Off]: The light does not turn off when the black image is input.

Note

- If [Intelligent Setting] in the [Projection Setting] menu is [On], [Dynamic Control] cannot be configured.

Related Topic
- Menu Operation: Intelligent Setting

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Expert Setting

Set the image quality to match the use location and image source.

1 **Press the MENU key.**

2 **Select [Projection Setting] - [Expert Setting] - The desired setting.**

Settings

[Ambiance]
Adjusts the picture setting automatically by detecting the ambient brightness using the light sensor of this unit.

- [On]: Adjust the picture quality automatically according to the ambient brightness.
- [Off]: The [Ambiance] function is not applied.

> **Note**
> - When [Ambiance] is set to [On], [Color], [Resolution] under [Reality Creation], and [Bright View] in the [Projection Setting] menu cannot be set.

[Reality Creation]
Adjusts the detail and noise processing of images. (Super-resolution function)

- [Reality Creation]

  - [Resolution]: When you increase the setting value, the texture and detail of the image become sharper.
  - [Test: On/Off]: Switches [On] and [Off] at a certain frequency to check the effect of Reality Creation.

- [Reality Text]

  - [Resolution]: When you increase the setting value, thin letters and lines are emphasized, and the visibility of the image is improved.
  - [Test: On/Off]: Switches [On] and [Off] at a certain frequency to check the effect of Reality Text.

- [Off]: The [Reality Creation] function is not applied.

> **Hint**
> - The display position of the status during the test works together with the [Menu Position] setting in the [Operation] menu.

> **Note**
> - Depending on the input signals, image noise may become more prominent. In that case, adjust the settings of [Reality Creation] before use.
> - When [Ambiance] is set to [On], the resolution is set automatically, and the [Resolution] menu is not displayed.

[Bright View]
Creates bright and sharp images suitable for projection in bright places maintaining color balance.

- [High]/[Middle]/[Low]: You can adjust the [Bright View].

- [Off]: The [Bright View] function is not applied.

> **Note**
>
> - When [Ambiance] is set to [On], the Bright View is set automatically, and the [Bright View] menu is not displayed.

[Gamma Mode]

- [2.2]: This is gamma correction for making the halftone brighter. This is suitable for projecting photos and vibrant images in bright locations.
- [2.4]: This is gamma correction for reproducing halftone more faithfully. This will project photos and other vibrant images with natural tones.
- [Gamma 3]: This is gamma correction for emphasizing bright portions of the image. Creates a balanced image.
- [DICOM GSDF Sim.]: Gamma setting is in accordance with the Grayscale Standard Display Function (GSDF) of the Digital Imaging and Communications in Medicine (DICOM) standards. This projector is not to be used as a device for medical diagnosis.

[Color Space]
Converts the color space.

- [Custom 1]: Produces images with vivid colors.
- [Custom 2]: Produces images with muted colors.
- [Custom 3]: Reproduces image colors true to the original image source.
    - [Color Select]: Select the color to adjust from [Red], [Green], and [Blue].
        - [Cyan - Red (x)]: Adjusts the chromaticity point of the selected color toward cyan-red (x).
        - [Magenta - Green (y)]: Adjusts the chromaticity point of the selected color toward magenta-green (y).

You can select R/G/B for the selected color space and adjust the R/G/B chromaticity points in the x and y directions in the CIExy chromaticity diagram respectively.

[Color Correction]
Adjusts the hue, saturation, and brightness.

- [On]: Adjusts the settings of [Color Correction].
    - [Color Select]: Select the color to adjust from [Red], [Yellow], [Green], [Cyan], [Blue], and [Magenta].
    - [Hue]/[Saturation]/[Brightness]: Adjust these items to achieve a color you desire.

- [Off]: The [Color Correction] function is not applied.

Related Topic
- Menu Operation: Menu Position

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Aspect

Set what aspect ratio images will be projected for each input signal.

1 **Press the MENU key.**

2 **Select ⊞ [Screen] - [Aspect] - Item you wish to configure.**

Settings

- For Computer Signal Input

  - [Full 1]: Maintain the aspect ratio and project onto the entire screen.
  - [Full 2]: Project onto the entire screen.
  - [Normal]: Project the original resolution onto the center of the screen without enlargement processing.

- For Video Signal Input

  - [4:3]: Fix the aspect ratio to 4:3 and project onto the entire screen.
  - [16:9]: Fix the aspect ratio to 16:9 and project onto the entire screen.
  - [Full]: Project onto the entire screen.
  - [Zoom]: Enlarge and project the center of the image.

Note

- Be aware that dividing, shrinking and stretching the display by the aspect ratio function for commercial purposes or public viewing at cafes, hotels, etc., may be in violation of the author's copyrights protected under copyright law.

- Depending on the input, items in [Aspect] or some settings may not be configured. In addition, the image may remain the same even if a different aspect ratio is set.

- Depending on the selected item, some parts of the screen may be displayed in black.

Related Topic

- Aspect Ratio
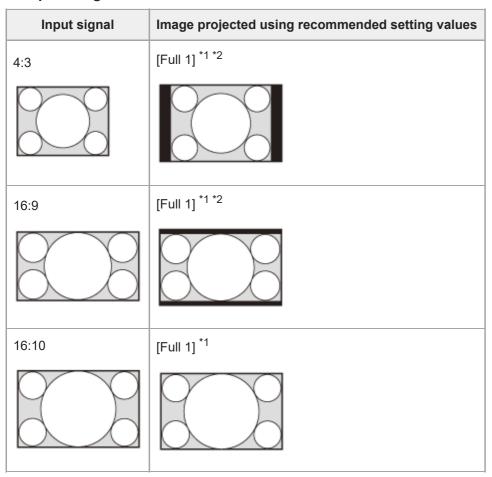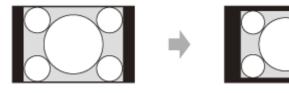
Data Projector
VPL-PHZ61/PHZ51

Aspect Ratio

Computer Signal

Input signal	Image projected using recommended setting values
4:3	[Full 1] *1 *2
16:9	[Full 1] *1 *2
16:10	[Full 1] *1
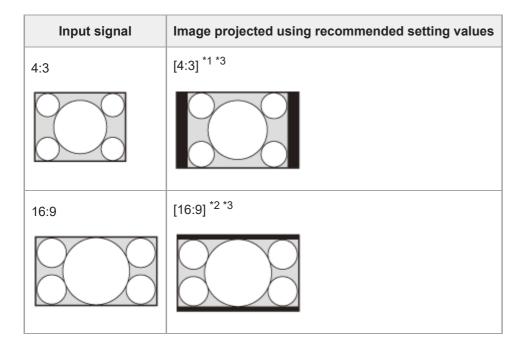
*1 Selecting [Normal] will project the image with the image signal resolution as-is without enlargement processing.

*2 Selecting [Full 2] will project the image onto the entire screen with the aspect ratio ignored.

Video Signal

Input signal	Image projected using recommended setting values
4:3	[4:3] *1 *3
16:9	[16:9] *2 *3

*1   Depending on the input signal, images may be displayed as follows. In this case, select [16:9].

*2   Depending on the input signal, images may be displayed as follows. In this case, select [Zoom].

*3   Selecting [Full] will project the image onto the entire screen with the aspect ratio ignored.

Related Topic

- Menu Operation: Aspect

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: V Center

Adjust the whole projected image by moving up and down on the screen.

1 **Press the MENU key.**

2 **Select** ⊞ **[Screen] - [V Center] - Adjust the values.**

The screen moves up as the setting increases and moves down as the setting decreases.

Note

- This item can be selected when a video signal is input from the RGB/Y PB PR input terminal (Input A), HDMI input terminal (Input B, Input C), or HDBaseT terminal (Input D).

- This item can be selected when [Aspect] in the ⊞ [Screen] menu is set to [Zoom] and [Screen Aspect] in the 🖵 [Installation] menu is [16:10] or [16:9].

Related Topic

- Menu Operation: Aspect
- Menu Operation: Screen Aspect

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VPL-PHZ61/PHZ51

Menu Operation: Vertical Size

Enlarges or reduces the image vertically. If the subtitle of a movie, etc. cannot be seen, use this together with [V Center].

1 **Press the MENU key.**

2 **Select ⊞ [Screen] - [Vertical Size] - Adjust the values.**

The projected image is enlarged as the setting increases and reduced as the setting decreases.

Note

- This item can be selected when a video signal is input from the RGB/Y PB PR input terminal (Input A), HDMI input terminal (Input B, Input C), or HDBaseT terminal (Input D).

- This item can be selected when [Aspect] in the ⊞ [Screen] menu is set to [Zoom] and [Screen Aspect] in the 🖳 [Installation] menu is [16:10] or [16:9].

Related Topic

- Menu Operation: V Center
- Menu Operation: Aspect
- Menu Operation: Screen Aspect

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Overscan

Select this item if noise appears along the edge of the image.

1 **Press the MENU key.**

2 **Select** [Screen] - [Overscan] - [On] or [Off].

Selecting [On] hides the outline of the image.

Note

- This item can be selected when a video signal is input from the RGB/Y PB PR input terminal.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Adjust Signal

Adjust the projected image for computer signal input. Adjust when the edges of the screen are cut off or the image quality is poor.

1 **Press the MENU key.**

2 **Select ⊞ [Screen] - [Adjust Signal] - The desired setting.**

Settings

[APA]
Pressing the ENTER key will automatically modify the screen into its optimal state. This item can be selected when a computer input signal is supplied from the RGB input terminal (Input A).

[Phase]
Adjust the input signal and display the pixel phase. Set it to the value that produces the clearest image. This item can be selected when a computer input signal is supplied from the RGB input terminal (Input A).

[Pitch]
Increasing the value will make the horizontal width (pitch) of the display pixels become larger, and decreasing it will make the width become smaller. This item can be selected when a computer input signal is supplied from the RGB input terminal (Input A).

[Shift]

- [H]: Increasing the value will make the screen move to the right, and decreasing the value will make it move to the left.
- [V]: Increasing the value will make the screen move up, and decreasing the value will make it move down.

This item can be selected when a signal is supplied from input terminal RGB/Y PB PR (Input A).

> **Note**
>
> - [APA] may not be able to function properly when there is a large black area around the projected image, and part of the image may not be displayed. In addition, depending on the input, the image may not be optimized. If this occurs, configure [Phase], [Pitch], and [Shift] manually.
>
> - The value adjusted for [Pitch] will return to its factory setting if [APA] or [Smart APA] in the ⊞ [Function] menu is performed. If you wish to continue using the adjusted value, set [Smart APA] in the ⊞ [Function] menu to [Off].

Related Topic
- Menu Operation: Smart APA
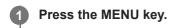
Menu Operation: Volume

Adjust the volume.

1 **Press the MENU key.**

2 **Select 📑 [Function] - [Volume] - Adjust the values.**

Increasing the value will increase the volume, and decreasing it will decrease the volume.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Speaker

Set whether sound is output from the projector speakers.

1   **Press the MENU key.**

2   **Select ⊞ [Function] - [Speaker] - [On] or [Off].**

Selecting [On] causes sound to be output from the projector speakers. If you do not wish for sound to be output from the speakers, select [Off].

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Speaker Setting

Set whether the projector speakers are usable when the projector light is off. When [Speaker Setting] is set to [Always On] and the light is off, Input A becomes active.

1 **Press the MENU key.**

2 **Select [Function] - [Speaker Setting] - [Sync with Power] or [Always On].**

Selecting [Always On] allows the projector speakers to be used even when the light is off.

Note

- Selecting [Always On] for the [Speaker Setting] will also set [Standby Mode] to [Standard].

Related Topic

- Using Eco Mode

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Smart APA

When a computer signal is supplied from the RGB input terminal (Input A), APA is activated automatically, and the screen is adjusted into its optimal state.

1 **Press the MENU key.**

2 **Select 🔲 [Function] - [Smart APA] - [On] or [Off].**

Selecting [On] allows APA to be activated automatically when a computer signal is supplied.

Related Topic

- Menu Operation: Adjust Signal

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: CC Display

This operation controls the CC (Closed Captioning) setting.

1 **Press the MENU key.**

2 **Select ▦ [Function] - [CC Display] - The desired setting.**

Settings

[CC1]/[CC2]/[CC3]/[CC4]/[Text1]/[Text2]/[Text3]/[Text4]
Select the CC (Closed Captioning) service (subtitles or textual information) that is displayed.
[Off]
CC (Closed Captioning) is not displayed.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Background

Sets the background for when there is no input signal.

1   **Press the MENU key.**

2   **Select ⊞ [Function] - [Background] - [Blue], [Black], or [Image].**

When set to [Image], the Start Up Image is displayed.

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Data Projector
VPL-PHZ61/PHZ51

SONY

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Start Up Image

Set whether the startup image is displayed during startup.

1 **Press the MENU key.**

2 **Select ▤ [Function] - [Start Up Image] - [On] or [Off].**

Selecting [On] will enable the startup image to be displayed during startup.

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SONY

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: All Reset

All settings are initialized to their factory preset values.

1 **Press the MENU key.**

2 **Select ▦ [Function] - [All Reset].**

When the [Do you wish to reset the settings to default values?] message is displayed, select [Yes].

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Data Projector
VPL-PHZ61/PHZ51

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Language

Set the language used in the menu, messages, and so on.

1 **Press the MENU key.**

2 **Select ▣ [Operation] - [Language] - The desired language.**

Related Topic

- [Making Initial Settings](#)

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Menu Position

For selecting the position of the menu displayed on the projected image.

1   **Press the MENU key.**

2   **Select [Operation] - [Menu Position] - [Bottom Left] or [Center].**

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Status

Set whether the menu, messages, and so on are displayed.

1. **Press the MENU key.**

2. **Select ▣ [Operation] - [Status] - [On], [Off], or [All Off].**

Settings

[On]
All screen displays become active.
[Off]
All screens except for the menu display, warning messages, notifications, and so on will not be displayed.
[All Off]
Turns off the on-screen displays excluding certain menus.

> **Note**
>
> ● When [All Off] is selected, the warning message for high temperature is not displayed.
>
> ● Note that Sony is not liable for failure of the unit or any accident caused by selecting [All Off].

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: IR Receiver

Selects the remote control receivers (IR Receiver) on the front and rear of the projector.

1 **Press the MENU key.**

2 **Select ▦ [Operation] - [IR Receiver] - [Front & Rear], [Front], [Rear], or [Off].**

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: ID Mode

Assign an ID number to the projector.

1　**Press the MENU key.**

2　**Select ▯ [Operation] - [ID Mode] - The desired setting.**

Settings

[All]/[1]/[2]/[3]/[4]
When set to [All], you can control the projector with the Remote Commander independent of the assigned ID Mode.

> **Hint**
> - The supplied Remote Commander is set to ID [1].

Related Topic
- Parts and Controls (Remote Commander and Control Panel)

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Security Lock

Allows you to set a password and restrict users.

1 **Press the MENU key.**

2 **Select [Operation] - [Security Lock] - [On] and press the ENTER key.**

3 **Enter the set password.**

Turning Off Security Lock

Selecting [Off] allows you to turn off Security Lock. This also requires the password to be entered.

> **Note**
>
> - If the password is entered incorrectly three times in a row, further operation is not allowed. In this case, press the I/(^l) (On/Standby) key to put the projector on Standby, then turn the device on again.
>
> - If you forget the password, you will be unable to use the projector, so exercise due caution. If you contact qualified Sony personnel, you can receive the password. This will require the projector's serial number and confirmation of the customer's information. (The confirmation method differs by country/region.)

Related Topic
- Menu Operation: Set Password

Menu Operation: Control Key Lock

Allows operation via the control panel to be deactivated.

1   Press the MENU key.

2   Select ▦ [Operation] - [Control Key Lock] - [On] or [Off].

Selecting [On] deactivates operation via the control panel.

Operations Possible During Operation Lockout

The following operations are possible even when [Control Key Lock] is [On].

- **In Standby Mode, press and hold the ❙ / ⏻ (On/Standby) key for approximately 10 seconds.**
  The power will turn on.
- **With the power on, press and hold the MENU key for approximately 10 seconds.**
  [Control Key Lock] will turn [Off], and the control panel will become operational.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Menu Settings Lock

Lock the menu settings.

1 **Press the MENU key.**

2 **Select ▣ [Operation] - [Menu Settings Lock] - The desired setting.**

Settings

[Full]
Lock all menu settings.
[Startup]
Lock the settings when the projector is turned on. Settings can be changed while the projector is in use, but once the power is turned off, they will return to the originally locked settings.
[Update]
Selecting [Update] when [Startup] has been selected saves the changed settings and keeps them the same.

> **Note**
> - When performing [Menu Settings Lock] operations, the password must be entered. Set the password in [Set Password] in the ▣ [Operation] menu.

Related Topic
- Menu Operation: Set Password

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Set Password

Set the password for the [Security Lock] and [Menu Settings Lock] operations.

1 **Press the MENU key.**

2 **Select ▯ [Operation] - [Set Password].**

3 **Use the MENU, ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right), and ENTER keys to enter the password.**

The default factory setting password is "ENTER, ENTER, ENTER, ENTER."

4 **Use the MENU, ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right), and ENTER keys to enter your new password.**

5 **Enter the new password again for confirmation.**

Related Topic

- Menu Operation: Security Lock
- Menu Operation: Menu Settings Lock

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Network Setting

Set the network IP address.

1 **Press the MENU key.**

2 **Select ⬛ [Connection/Power] - [Network Setting] - [IP Address Setup] - The desired setting.**

Settings

[Auto(DHCP)]
Network settings are automatically assigned via the router or another device's DHCP server function.
[Manual]
Configure the network manually.

> **Note**
> ● When setting the IP address manually, enter the IP address after changing the IP address setting to [Manual].

SONY

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Communication Mode

Configure the communication mode.

1   **Press the MENU key.**

2   **Select   [Connection/Power] - [Network Setting] - [Communication Mode] - The desired setting.**

Settings

[http]
Communicate with http only.
[http and https]
Communicate with both http and https.
[https]
Communicate with https only.

Related Topic

- Configuring https Communication

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: HDBaseT Settings

Configure a connection to an HDBaseT device.

1 **Press the MENU key.**

2 **Select ☰ [Connection/Power] - [Network Setting] - [HDBaseT Settings] - The desired setting.**

Settings

[LAN Setting]
[via HDBaseT]/[LAN Port]: You can select either via the LAN of the HDBaseT device connected to the HDBaseT terminal or via the network connection with the LAN terminal of the main unit.
[RS-232C Setting]

- [via HDBaseT]: You can connect this unit to the RS-232C terminal via the HDBaseT transmitter. (Baud rate: 9,600 bps)
- [RS-232C]: Use when connecting to the RS-232C terminal of this unit directly. (Baud rate: 38,400 bps)

[Extron XTP]
[On]/[Off]: Set to [On] when connecting the HDBaseT terminal of this unit to XTP Systems manufactured by Extron Electronics. Set to [Off] when connecting to other equipment.

> **Note**
>
> - When connecting via HDBaseT, only the 100BASE-TX can be used for connection. When using the LAN terminal of the main unit, you can connect with the 10BASE-T/100BASE-TX/1000BASE-T.
>
> - The IP addresses when using HDBaseT and when using the LAN terminal should be set respectively.
>   - Setting the IP address when using a LAN via HDBaseT.
>   Set [LAN Setting] to [via HDBaseT] in [HDBaseT Settings], then set the IP address in [Network Setting].
>   - Setting the IP address when using the LAN terminal.
>   Set [LAN Setting] to [LAN Port] in [HDBaseT Settings], then set the IP address in [Network Setting].
>
> - For details on XTP Systems, refer to the product catalog or brochure from Extron Electronics.

Related Topic
- Connecting to an HDBaseT™ Device

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Dynamic Range

Set the image input level for the INPUT B/INPUT C terminal.

1　**Press the MENU key.**

2　**Select ⚎ [Connection/Power] - [Dynamic Range] - The desired setting.**

Settings

[Auto]
Identify the image input level automatically.
[Limited]
Set when the image input level is between 16 and 235.
[Full]
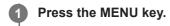Set when the image input level is between 0 and 255.

> **Note**
> - If the image output settings for the HDMI connection device are not correct, the bright sections and dark sections of the image may become too bright or dark, respectively.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: HDMI Cable

Set the item related to HDMI cables.

1 **Press the MENU key.**

2 **Select ▦ [Connection/Power] - [HDMI Cable] - [Input-B] or [Input-C] - The desired setting.**

Settings

[Long]
Select when the image is disturbed or not projected.
[Normal]
Select this normally.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: HDMI Signal Format

Switches the HDMI signal format.

1 **Press the MENU key.**

2 **Select ⬛ [Connection/Power] - [HDMI Signal Format] -[Input-B], [Input-C], or [Input-D] - The desired setting.**

Settings

[Standard]
Displays the image in the standard HDMI format.
[Enhanced]
Displays the image in a more high-definition HDMI format.

> **Note**
>
> - The image or sound may not be output correctly when [Enhanced] is selected. In that case, select [Standard].
> - It may take time to display an image after changing the image signal format.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Input-A Signal Sel.

Set the image signal type for when Input A is selected.

1　**Press the MENU key.**

2　**Select ▤ [Connection/Power] - [Input-A Signal Sel.] - The desired setting.**

Settings

[Auto]
Automatically choose the image signal type for when Input A is selected.
[Computer]/[Video GBR]/[Component]
The selected image signal type will be applied.

> **Note**
> - Even if [Auto] is set, the image may not be optimized depending on the input. If this occurs, configure manually in accordance with the connected device.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: ECO

1 **Press the MENU key.**

2 **Select ▣ [Connection/Power] - [ECO] - [Auto Power Saving] - The desired setting.**

Settings

[With No Input]

- [Light Cutoff]: If there is no signal input for approximately 2 minutes, the light will automatically turn off and the power consumption will be reduced. Inputting a signal or operating a key will turn the light back on. When the light is off, the ON/STANDBY indicator will be orange.
- [Standby]: If there is no signal input for approximately 2 minutes, the projector will automatically go into Standby Mode.
- [Off]: Disable the With No Input setting function.

[With Static Signal]

- [Light Dimming]: If there has been no change to the image being input into the projector (approximately 10 seconds), the light mode settings will gradually reduce the light output (by approximately 10% - 15%). In addition, if there is no change detected in the input signal for an optionally set period of time ([5 min.]/[10 min.]/[15 min.]/[20 min.]/[Demo.]), the light output will be automatically reduced to approximately 5%. While the light output is being reduced, the [Light Dimming] message will be displayed. If [Demo.] is selected, the light will begin dimming after approximately 40 seconds. When a signal change, Remote Commander operation, or control panel operation is detected, it will revert to the original brightness.
- [Off]: Disable the With Static Signal setting function.

> **Note**
>
> - If you do not want the projector to automatically enter Standby Mode when there is no input signal, set [With No Input] to [Off].
>
> - Light reduction works gradually over time, so you may not notice that it is being reduced. For this reason, when the input signal changes and the light returns to its original brightness, you may notice that the light was reduced.
>
> - The light output reduction amount differs depending on the [Light Output Mode] setting in the ▣ [Projection Setting] menu.

Related Topic

- Menu Operation: Light Settings

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Auto Light Output

Adjust the light output automatically according to the surrounding brightness.

1   **Press the MENU key.**

2   **Select ☰ [Connection/Power] - [ECO] - [Auto Light Output] - [On] or [Off].**

Settings

[On]
Automatically adjust the light output according to the brightness of the surroundings and reduce the light output as the surroundings become darker.
[Off]
Disable the auto light control function.

> **Note**
> ● The light output reduction amount differs depending on the [Light Output Mode] setting in the ▣ [Projection Setting] menu.

Related Topic
● Menu Operation: Light Settings

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Standby Mode

Set the power consumption during Standby Mode.

1 **Press the MENU key.**

2 **Select ⛶ [Connection/Power] - [ECO] - [Standby Mode] - [Standard] or [Low].**

Selecting [Standard] will increase the power consumption during Standby Mode.

Note

- If Standby Mode is [Low], you will no longer be able to use networks and network control functions while in Standby Mode.

Hint

- Setting [Remote Start] to [On] will turn the projector on by sending special commands even when [Standby Mode] is set to [Low].

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Remote Start

Configure Remote Start. Setting [Remote Start] to [On] will turn on the projector by sending special commands even when [Standby Mode] is set to [Low].

1 **Press the MENU key.**

2 **Select ⬛ [Connection/Power] - [ECO] - [Remote Start] - [On] or [Off].**

Selecting [On] will allow you to supply power from the computer and so on to the projector when in a network-connected environment.

Note

- It is necessary to configure the network settings correctly and connect the projector to the network in advance.

- When supplying power to the projector using the Remote Start function, it is necessary to send special commands from the computer. Consult with qualified Sony personnel for details.

- Setting [Remote Start] to [On] will increase standby power consumption during Standby Mode.

Related Topic

- Menu Operation: Network Setting

SONY

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Auto Input Select

Detects the terminal the signal is input into and switches the input automatically.

1 **Press the MENU key.**

2 **Select** ▤ **[Connection/Power] - [Auto Input Select] - [On] or [Off].**

Selecting [On] switches to the input of the terminal the signal is input into.

Hint

- When [Auto Input Select] is set to [On] while signals are being input to multiple terminals, the input switches from the one currently selected as the starting point to the input with a signal being input in the order of Video input → Input A → Input B →Input C → Input D → Video input….
Ex.: When signals are input to Input A and Input C
  - When [Auto Input Select] is set to [On] while Input B is selected, Input C is selected automatically.
  - When [Auto Input Select] is set to [On] while Input D is selected, Input A is selected automatically.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Auto Power On

Sets the projector to turn on automatically when a video signal is input to a video input terminal other than INPUT D (HDBaseT).

1 **Press the MENU key.**

2 **Select [Connection/Power] - [Auto Power On] - [On] or [Off].**

When [On] is selected, the projector turns on automatically when a video signal is input to a video input terminal other than INPUT D (HDBaseT).

Hint

- When [Auto Power On] is set to [On], the input that is selected when the projector is turned on will differ depending on the [Auto Input Select] settings.
  - When [Auto Input Select] is set to [Off], the input that was selected when the projector was turned off last is selected.
  - When [Auto Input Select] is set to [On] and a signal is input to only one input terminal, that input is selected.
  - When [Auto Input Select] is set to [On] and signals are input to multiple input terminals, the input that was selected when the projector was turned off last is selected. If there is no input signal for that input, the next input with an input signal is selected in the following order: Video input → Input A → Input B → Input C → Input D → Video input….

Note

- When [Standby Mode] is set to [Low], [Auto Power On] is not displayed in the menu.

Related Topic

- Menu Operation: Auto Input Select
- Menu Operation: Standby Mode

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Direct Power On

Set whether power is set to On or Standby when plugging the AC power cord into an outlet.

1 **Press the MENU key.**

2 **Select ⬛ [Connection/Power] - [Direct Power On] - [On] or [Off].**

When [On] is selected, the projector is turned on and does not go into Standby Mode when the AC power cord is plugged into an outlet.

Hint

- When the power is turned off, you can disconnect the AC power cord without going into Standby Mode regardless of the [Direct Power On] settings.

Related Topic

- Turning Power On/Off

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Screen Fitting

Select the image distortion correction method.

1   **Press the MENU key.**

2   **Select ⊡ [Installation] - [Screen Fitting] - [HV Keystone] or [Warping].**

When you wish to use trapezoidal correction, select [HV Keystone], and when you wish to correct distortion, select [Warping].

Related Topic

- Menu Operation: V Keystone
- Menu Operation: H Keystone
- Menu Operation: Warping

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: V Keystone

Adjust the projected image to a screen that has a vertical trapezoidal shape.
This is displayed when [HV Keystone] is selected for [Screen Fitting] in the 🖳 [Installation] menu.

1 **Press the MENU key.**

2 **Select 🖳 [Installation] - [V Keystone].**

3 **Adjust the value with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

Increasing the value in the positive direction makes the upper side screen width smaller, and increasing it in the negative direction makes the lower side screen width smaller.

Note

- Because keystone correction is an electronic form of correction, the image quality may be reduced.

Related Topic

- Correcting a Vertical Trapezoid
- Menu Operation: Screen Fitting

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: H Keystone

Adjust the projected image to a screen that has a horizontal trapezoidal shape.
This is displayed when [HV Keystone] is selected for [Screen Fitting] in the ▣ [Installation] menu.

1　**Press the MENU key.**

2　**Select ▣ [Installation] - [H Keystone].**

3　**Adjust the value with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

Increasing the value in the positive direction makes the right side of the screen smaller, and increasing it in the negative direction makes the left side of the screen smaller.

Note

- Because keystone correction is an electronic form of correction, the image quality may be reduced.

Related Topic

- Correcting a Horizontal Trapezoid
- Menu Operation: Screen Fitting

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Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Warping

Corrects distortion of the image.
This is displayed when [Warping] is selected for [Screen Fitting] in the ⬚ [Installation] menu.

1 **Press the MENU key.**

2 **Select ⬚ [Installation] - [Warping] - [Adjust].**

3 **Select the position you wish to correct using the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys and press the ENTER key.**

4 **Adjust the distortion of the image with the ⬆ / ⬇ / ⬅ / ➡ (Up/Down/Left/Right) keys.**

Selecting [Reset] resets the adjusted value and returns the image to an unadjusted state.

> **Note**
>
> - Because warping correction is an electronic form of correction, the image quality may be reduced.

Related Topic

- Correcting Screen Distortion
- Menu Operation: Screen Fitting

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Digital Shrink

Allows you to shrink the projected image or adjust its position.

1 **Press the MENU key.**

2 **Select ⌨ [Installation] - [Digital Shrink] - The desired setting.**

Settings

[Digital Shrink]
Adjust the size of the projected image. Setting the value to "0" will leave the image in its original size. The shrinkage rate is 100% - 90%.
[Shift]
Adjust the projection position. The adjustable range changes depending on the shrinkage rate.

> **Note**
> - Because digital shrinkage is an electronic form of correction, the image quality may be reduced.
> - While adjusting the digital shrinkage, pressing the ENTER key will take you to a shift adjustment menu.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Image Flip

The image flips either horizontally or vertically depending on the installation method.

1 **Press the MENU key.**

2 **Select [Installation] - [Image Flip] - The desired setting.**

Settings

[HV]
Flip the image horizontally and vertically.
[H]
Flip the image horizontally.
[V]
Flip the image vertically.
[Off]
Project the image without flipping it.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: High Altitude Mode

Set in accordance to the air pressure at the installation location.

1 **Press the MENU key.**

2 **Select ⬚ [Installation] - [High Altitude Mode] - The desired setting.**

Settings

[Level2]
Select when using the projector in a location at an altitude of 1,800 m (approx. 5,900 ft) or higher.
[Level1]
Select when using the projector in a location at an altitude from 1,000 m (approx. 3,280 ft) to 1,800 m (approx. 5,900 ft).
[Off]
Select when using the projector on level ground.

> **Note**
> - Using the projector with improper settings may affect the reliability of the components.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Filter Timer Notif

Check the air filter usage time and set the cleaning cycle.

1 **Press the MENU key.**

2 **Select ⬚ [Installation] - [Filter Timer Notif] - The desired setting.**

Settings

[Filter Timer]
Display the air filter usage time.
[Filter Timer Reset]
Reset the air filter usage time. Use when the air filter is cleaned or replaced with a new one.
[Cleaning Notice]
Set the cleaning cycle of the air filter.

- [Auto]：Do not display periodic messages. Display the message when a clogged air filter is detected.
- [Custom]：The cleaning cycle can be set from 100H to 20000H in 100H increments.

Related Topic

- Viewing the Projector Information
- Cleaning the Outer Panel/Air Filter of the Projector
- Replacing/Discarding the Air Filter

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Screen Aspect

Switches the display area to suit the screen.

1 **Press the MENU key.**

2 **Select 🖳 [Installation] - [Screen Aspect] - The desired setting.**

Select [16:10], [16:9], [16:6], or [4:3] to suit the screen.

Data Projector
VPL-PHZ61/PHZ51

Menu Operation: Panel Alignment

This feature allows you to adjust the gaps in the color of characters or the picture. When set to [On], [Adjust Color] and [Pattern Color] can be assigned and adjusted.

1 **Press the MENU key.**

2 **Select [Installation] - [Panel Alignment] - The desired setting.**

Settings

[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 the [Adjust Color] is [B] (Blue).
[Adjust]
The shift adjustment and zone adjustment of the color selected in [Adjust Color] can be made with / / / (Up/Down/Left/Right) keys.
[Reset]
The panel alignment settings are initialized to their factory preset values.

> **Note**
>
> - Depending on the adjustment value of [Panel Alignment], the color and resolution may be changed.

Data Projector
VPL-PHZ61/PHZ51

Viewing the Projector Information

View the projector model name, serial number, input signal type, light usage time, and other information.

1   **Press the MENU key.**

2   **Select ⓘ [Information].**

Items that Can be Viewed

[Model Name]
Displays the model name.
[Serial No.]
Displays the serial number.
[fH / fV]
Displays the horizontal/vertical frequency and signal type (resolution) of the current input signal.
[Light Timer]
Displays the light usage time thus far.
[Filter Timer]
Display the air filter usage time.

> **Note**
>
> - The horizontal/vertical frequency may not be displayed properly due to the input signal.

Related Topic
- Menu Operation: Filter Timer Notif

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Data Projector
VPL-PHZ61/PHZ51

Uses for Network Features

Connecting a projector to a network allows you to do the following.
Use the projector with only necessary functions enabled.

- Confirm the current projector state using a web browser.
- Operate the projector remotely using a web browser.
- Receive a report from the projector via e-mail.
- Configure network settings for the projector.
- Perform control using various types of network surveillance and control protocol (Advertisement, ADCP, PJ Talk, PJ Link, SNMP, AMX DDDP (Dynamic Device Discovery Protocol), Crestron RoomView).
- Reset the network settings.
- Set the date and time.
- Update the software.
- Use https communication.

Note

- When connecting the projector to a network, consult the network administrator. Also, use a network environment with security measures in place.

- When using the projector upon connecting it to a network, open the projector's control panel via a network and change the factory settings of the access control settings. We also recommend that you change your password periodically.

- Once you have finished configuration via the browser, close the browser to log out.

- Please note that the images used in the explanation are for reference only. Some images may differ depending on what model you are using.

- Supported web browsers are Microsoft Edge (Chromium), Safari, and Chrome.

- The only display language available is English.

- When accessing the projector from a computer, if the browser is set to "use a proxy server," click the checkmark and configure it to not use a proxy server.

Related Topic
- Operating the Control Panel
- Using the E-mail Report Function
- Configuring the Network Settings of the Projector
- Resetting the Network Settings
- Setting the Date and Time
- Using the Software Update Function
- Configuring https Communication

Data Projector
VPL-PHZ61/PHZ51

Displaying the Control Window of the Projector with a Web Browser

Display the control window of the projector with a web browser and configure the network settings.

1 **Connect the projector and computer to a hub or router using LAN cables.**

2 **Press the MENU key and configure the projector's network settings from [Connection/Power] - [Network Setting].**

3 **Start the web browser, enter the following into the address field, and press the Enter key.**

http://xxx.xxx.xxx.xxx
(xxx.xxx.xxx.xxx: IP address of the projector)
The IP address of the projector can be confirmed from [Network Setting] in the [Connection/Power] menu.
The control panel will be displayed in the browser.

Hint

- Once the network settings have been configured, the control panel can be displayed thereafter via the operation in Step 3 alone.

- For https communication, connect with http first, then configure https communication.

Related Topic

- Connecting to a Computer via a Hub or Router
- Menu Operation: Network Setting
- Configuring https Communication

Data Projector
VPL-PHZ61/PHZ51

Operating the Control Panel

From the control panel displayed in your browser, you can configure access privileges and confirm the projector state.

Switching Pages

Click the page toggle tab (A) to display the page you wish to configure.
When the tab of the target page is not displayed, scroll the bar under the tab to display it.

Administrator privileges will be required to access to the pages other than Information and Control.

Setting the Password

Upon clicking [Setting] in the page toggle tab, a login window will be displayed.

When accessing the [Setting] page for the first time, enter the User Name "root" and the Password "Projector."
When logging in for the first time, a window prompting you to change your password will be displayed. Follow the instructions displayed and change your password.

The initial password "Projector" cannot be set as the new password.
To change the password, set [Password] in the [Setting] page.

To enable the new password, enter the new password, then click [Apply].

> **Note**
>
> - If you forget your password, contact qualified Sony personnel.
>   Your password will be reconfigured once your approval has been obtained.

Confirming the Projector State

Clicking the [Information] page toggle tab and opening the [Information] page allows you to confirm the projector's current state.

Operating the Projector

Clicking the [Control] page toggle tab and opening the [Control] page allows you to operate the projector.

The button functions are the same as those of the keys on the Remote Commander.

Data Projector
VPL-PHZ61/PHZ51

Using the E-mail Report Function

Configure the e-mail report function from the [E-mail Report] page.

> **Note**
> ● The entered value will not be applied until [Apply] is clicked.

1 **Click the [E-mail Report] tab and display the [E-mail Report] page.**

2 **Select [Enable] in [E-mail Report].**

3 **Configure [Send to] and [CC].**

4 **Configure the [Report Timing] items.**

5 **Click [Apply].**

6 **Configure the [E-mail Account] items.**

7 **Check [Send mail test] and click [Apply].**

A test e-mail will be sent to the set destination address.

Settings

[Send to], [CC]

Enter the destination e-mail address.

[Report Timing]

● [Over Light usage time]: Send a report when the light usage time elapses the specified time. [Error]: Send a report when the projector detects an error.

[E-mail Account]

- [User Name]: Enter the e-mail address.
- [SMTP Server]: Enter the transmission e-mail server (SMTP) address.

Note

- For networks performing Outbound Port25 Blocking, the e-mail report function cannot be used because the SMTP server cannot be connected to.

- You cannot enter the following characters in the text box: ' " \ & < >

Data Projector
VPL-PHZ61/PHZ51

Configuring the Network Settings of the Projector

Configure the network functions from the [Setting] page.

> **Note**
> - The entered value will not be applied until [Apply] is clicked.

1 **Click the [Setting] tab and display the [Setting] page.**

2 **Configure [Location].**

3 **Configure [Host Name].**

This host name must be the same as the Common Name (common name) of the certificate used when accessing via https communication. For details, refer to "Configuring https Communication."

4 **Configure [Obtain an IP address automatically (DHCP)] or [Specify an IP address].**

5 **Click [Apply].**

Settings

[Obtain an IP address automatically (DHCP)]

Network settings are automatically assigned via the router or other device's DHCP server function. The values allocated by the DHCP server are displayed in [IP Address], [Subnet Mask], [Default Gateway], and [DNS Server].

[Specify an IP address]

Configure the network manually.

- [IP Address]: Enter the IP address of the projector.
- [Subnet Mask]: Enter the subnet mask of the projector.
- [Default Gateway]: Enter the default gateway of the projector.
- [DNS Server]: Enter the primary DNS server of the projector.

Related Topic

- Configuring https Communication

Data Projector
VPL-PHZ61/PHZ51

Setting Advertisement

Change the Advertisement control protocol settings from the [Advertisement / PJ Link / PJ Talk] page.

> **Note**
> - The entered value will not be applied until [Apply] is clicked.

1 **Click the [Advertisement / PJ Link / PJ Talk] tab and display the [Advertisement / PJ Link / PJ Talk] page.**

2 **Configure each item under [Advertisement] and click [Apply].**

Settings

[Start Advertisement Service]

Turn Advertisement on or off. The settings related to Advertisement are applied only if it is on. It is off in the default factory setting.

- [Community]: Enter the community names for Advertisement and PJ Talk. If changed, the PJ Talk community name changes as well. Only entries consisting of four alphanumeric characters are allowed. The default factory setting community name is "SONY." To avoid unauthorized access to the projector from another computer, we recommend changing the community name from the one in the factory setting.
- [Port No.]: Enter the Advertisement transmission port. The default factory setting Advertisement transmission port is "53862."
- [Interval]: Enter the Advertisement transmission interval (seconds). The Advertisement transmission interval in the default factory setting Advertisement transmission port is "30."
- [Broadcast Address]: Enter the Advertisement data transmission recipient. If nothing is entered, it will be broadcast on the same subnet.

Data Projector
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Setting PJ Link

Change the PJ Link control protocol settings from the [Advertisement / PJ Link / PJ Talk] page.

> **Note**
> ● The entered value will not be applied until [Apply] is clicked.

1 **Click the [Advertisement / PJ Link / PJ Talk] tab and display the [Advertisement / PJ Link / PJ Talk] page.**

2 **Configure each item under [PJ Link] and click [Apply].**

Settings

[Start PJ Link Service]

Turn the PJ Link function on or off. The settings related to PJ Link are applied only if it is on. The function in the default factory setting is off.

● [Requires Authentication]: Turn the PJ Link authentication function on or off.
● [Password]: Enter the PJ Link authentication password. Refer to the PJ Link specifications for the default password.

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Setting PJ Talk

Change the PJ Talk control protocol settings from the [Advertisement / PJ Link / PJ Talk] page.

> **Note**
> ● The entered value will not be applied until [Apply] is clicked.

1 **Click the [Advertisement / PJ Link / PJ Talk] tab and display the [Advertisement / PJ Link / PJ Talk] page.**

2 **Configure each item under [PJ Talk] and click [Apply].**

Settings

[Start PJ Talk Service]

Turn the PJ Talk setting on or off. The settings related to PJ Talk are applied only if it is on. The default factory setting function is off.

● [Community]: Enter the community names for Advertisement and PJ Talk. If changed, the Advertisement community name changes as well. Only entries consisting of four alphanumeric characters are allowed. The community name in the default factory setting is "SONY." To avoid unauthorized access to the projector from another computer, we recommend changing the community name from the one used in the factory setting.
● [Port No.]: Enter the PJ Talk server port. The default factory setting PJ Talk server port is "53484."
● [Timeout]: Enter the time (in seconds) until the connection is cut when PJ Talk communication is interrupted. The time in the default factory setting is "30."
● [Host Address]: Enter the IP address allowed to be received by the PJ Talk server. If nothing is entered, commands can be received from any IP address. Once an IP address has been entered, access will only be allowed from the entered IP address. For security purposes, we recommend entering an IP address and restricting access.

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Setting ADCP

Change the ADCP control protocol settings from the [ADCP] page.

> **Note**
> ● The entered value will not be applied until [Apply] is clicked.

1 Click the [ADCP] tab and display the [ADCP] page.

2 Configure each item and click [Apply].

Settings

[Start ADCP Service]

Turn ADCP on or off. The settings related to ADCP are applied only if it is on. It is off in the default factory setting.

● [Requires Authentication]: Turn the ADCP authentication function on or off. The web page administrator password is set for the password.
● [Port No.]: Enter the ADCP server port. The default factory setting ADCP server port is "53595."
● [Timeout]: Enter the time (in seconds) until the connection is cut when ADCP communication is interrupted. The time in the default factory setting is "60."
● [Host Address]: Enter the IP address allowed to be received by the ADCP server. If nothing is entered, commands can be received from any IP address. Once an IP address has been entered, access will only be allowed from the entered IP address. For security purposes, we recommend entering an IP address and restricting access.

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Setting the AMX DDDP/Crestron Functions

Set the system service functions from the [DDDP/Crestron Control] page.

> **Note**
> - The entered value will not be applied until [Apply] is clicked.

1 **Click the [DDDP/Crestron Control] tab and display the [DDDP/Crestron Control] page.**

2 **Configure each item and click [Apply].**

Settings

[DDDP]

[Start DDDP Service]: Turn the DDDP function on or off. For details, refer to the AMX Corporation DDDP protocol specifications. The default factory setting is off.

[Client]

[Basic Items]

- [Start Creston Control]: Turn the Crestron Control function on or off.

  - [IP Address]: Enter the Crestron system server.
  - [IPID]: Enter the CIP protocol IP ID.
  - [Port Number]: Enter the CIP protocol server port number.

[TLS]

- [TLS]: Turn the TLS communication function on or off.

  - [User Name]: Set the user name for TLS communication.
  - [Password]: Set the password for TLS communication.
  - [Certificate]: Register a certificate for TLS communication.

[Auto Discovery]

- [Auto Discovery]: Turn the Auto Discovery function on or off.

[VC4]

- [Room ID]: Set the Room ID of Crestron VC4.

[Server]

[Basic]

- [Start Creston Server]: Turn the Crestron Server function on or off.
  - [IPID]: Set the IP ID of the CIP protocol.
  - [Port Number]: Set the port number of the Crestron Server.

[TLS]

- [TLS]: Turn the TLS communication function on or off.
  - [Server Certificate]: Register a server certificate for TLS communication.
  - [Private key]: Register a Private key for TLS communication.
  - [User Name]: Set the user name for TLS communication.
  - [Password]: Set the password for TLS communication.

[Fusion in the cloud]

[Fusion in the cloud]

- [Fusion in the cloud]: Turn the Fusion in the cloud function on or off.
  - [URL]: Set the address of Fusion in the cloud.
  - [Port]: Set the port number of Fusion in the cloud.

[TLS]

- [TLS]: Turn the TLS communication function on or off.

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Resetting the Network Settings

Return all items that can be configured via a web browser to their factory settings.

① Click the [Reset] tab and display the [Reset] page.

② Click [Reset].

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Setting the Date and Time

Set the date and time.
The time can be set from either [Use NTP server] or [Manual(Local)].

1 **Click the [Setting] tab and display the [Setting] page.**

2 **Configure each item under the Date and Time and click [Apply].**

Settings

[Current Date Time]

The currently set time will be displayed in the local time zone.

[Setting]

Enter the following items and set the date and time.

- [Timezone]: Set the time zone. Daylight Savings Time is not supported.
- [Use NTP server]: Select this if you are retrieving the time via a network (NTP server).

    - [NTP Server]: Enter the NTP server.
    - [Status]: Displays the status of the connection to the NTP server.
    - [latest server data]: Displays the information most recently obtained from the NTP server.

- [Manual(Local)]: Select this if you will set the date and time manually.

    - [Date(yyyy-mm-dd)]: Enter the date.
    - [Time(hh:mm:ss)]: Enter the time.

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Using the Software Update Function

The projector software can be updated via a network.
The update file can be downloaded from the Sony website.

> **Note**
>
> - The projector software can be updated via a network only when the projector is in Standby Mode.

1 **Click the [Setting] tab and display the [Setting] page.**

2 **Click [Select] in [FW Upload] to select the file to be updated, then click [Apply].**

Update preparation starts. A message will be displayed after preparation is complete.

Succeed to transfer: 10061722 byte(s) to server!

OK

3 **Click [OK].**

An update confirmation message will be displayed.

Firmware upgrade is avaliable.

Would you like to upgrade?

OK   Cancel

4 **Click [OK].**

Update starts.
The [Setting] page will be displayed again after update is complete.

Related Topic

- [Updating Software](#)

Data Projector
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Configuring https Communication

Configure https communication on the [Certificate] page.

1 Click the [Certificate] tab and display the [Certificate] page.

2 Select [Communication Mode].

- **[Http]:** http connection only.
- **[Http and Https]:** https and http connection can be used at the same time.
- **[Https]:** https connection only.

Select [Https] for https connection. However, follow the steps in "Connecting with https for the First Time" to set up https connection for the first time.
The encryption protocol supported by the projector is TLS 1.2. In addition, the port number is set to 443.

3 Set a certificate.

- **[Upload Trusted CA Certificate]:** The certificate issued by a CA will be installed. Select a certificate saved in a folder on your computer.
Click [Apply] to install it.
Supported certificate

  - Format: PEM
  - Extension: CRT, PEM
  - Encryption: RSA
  - Hash: SHA-256/SHA-384
  - Key length: 512/1024/2048/4096 bit
  - Common Name: Network host name
    For Common Name, use the host name set under [Host Name] on the [Setting] page.
  - Organization: Define by customer

- **[Generate self issued certificate (for test only)]:** The certificate generated within the projector (self-generating certificate) will be installed. Click [Apply] to install it.

  You can use either the certificate issued by a CA or the certificate generated within the projector (self-generating certificate).
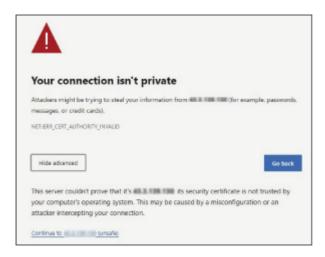
The installed certificate will be displayed in [Certificate information].

- [Status: OK]: When the certificate issued by a CA is installed and it is within the certification period.
- [Status: Expire]: When the certificate issued by a CA is installed but is past its expiration date.
- [Status: (blank)]: When a self-generating certificate is installed.

When Using the https Function

Use the host name set under [Host Name] on the [Setting] page to access the projector. Registration of the projector host name to the DNS server may be required depending on the operating environment. When accessing the projector with a different host name, such as the projector's IP address, a warning window may be displayed. In this case, continue with the procedure by referring to the instructions on the screen.

Example of the Screen for Microsoft Edge (When the OS is Set to English)

> **Note**
>
> - When using a self-generating certificate, proof of existence, which is one type of https communication, cannot be used for the following reasons.
>   - The secret key generated by the projector is self-signed.
>   - A value decided in advance is entered for the Distinguished Name (Common Name, etc.).
>   - A certificate has not been issued by a CA trusted by the user's system.
>
>   For security purposes, we recommend using a self-generating certificate in the case complete security, such as operation tests, is not necessary.
>
> - The last certificate becomes effective.
>
> - When using a self-generating certificate, [Security Warning] may be displayed when using a browser and connecting with https. In this case, continue with the procedure by referring to the instructions on the screen.
>
> - https connections may not be possible depending on the certificate installed in the projector. In this case, install a CA certificate to your computer. For details, refer to "Installing a CA Certificate to Your Computer."
>
> - Models sold in China do not include https functionality.
>
> - If using the https function, be sure to adjust the projector date and time before configuration. If the date and time are not accurate, you may not be able to connect via a browser.

Related Topic

- Menu Operation: Communication Mode
- Configuring the Network Settings of the Projector
- Connecting with https for the First Time
- Installing a CA Certificate to Your Computer

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Connecting with https for the First Time

If the https function works improperly when connecting only with https by setting [Communication Mode] to [Https], the computer cannot access the projector. To avoid this, confirm if the https connection is possible through the following steps.

1 Click [Certificate] and display the [Certificate] page.

2 Set [Communication Mode] to [Http and Https].

3 Install a certificate.

For installing a certificate, please refer to "Set a certificate" in "Configuring https Communication."

4 Close the web browser.

5 Start the web browser to display the projector setting window with https connection.

For the connection method, please refer to "When Using the https Function" in "Configuring https Communication."

6 Confirm that the https connection is possible, and then set [Communication Mode] to [Https].

If the setting window or web browser is closed due to https connection failure during confirmation, http connection is still possible as [Http and Https] is selected. Confirm the certificate setting with the http connection, and then confirm if the https connection becomes possible again.

Note

- When [Https] is selected in [Communication Mode] on the [Certificate] page, the computer cannot access the projector if the https connection fails. In this case, press the MENU button on the projector or Remote Commander to display the menu screen, and then select [Connection/Power] - [Network Setting] - [Communication Mode] - [http] to change the communication mode.

Related Topic
- Configuring https Communication

Data Projector
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Installing a CA Certificate to Your Computer

Depending on the type of certificate installed to the projector, it may not be possible to connect to a network because the browser (Microsoft Edge) does not display a dialog where you can decide whether or not to accept the certificate. In this case, follow the procedure below and install a CA certificate to your computer. (The following screens are examples when the OS is set to English.)

1 **Save the signed CA certificate that is to be installed to the projector to your computer.**

The standard certificate file extension is ".cer." Double-click this file to display the certificate dialog.
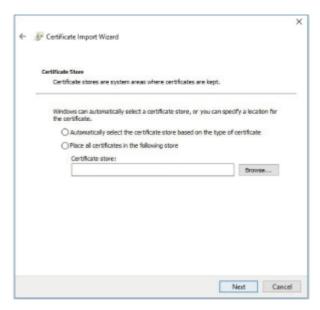
2 **Click [Install Certificate].**

[Welcome to the Certificate Import Wizard] will be displayed.

3 **Click [Next].**

4 **Select [Automatically select the certificate store based on the type of certificate] and click [Next].**

[Completing the Certificate Import Wizard] will be displayed.

5 **Confirm the content and click [Finish].**

The CA certificate will be installed.

Data Projector
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Deleting a CA Certificate Installed to Your Computer

Follow the procedure below to delete the CA certificate installed to your computer.

1 **Display the Internet Properties.**

- For Windows10: Enter "Internet Options" in the search bar at the bottom left of the screen to search. After the search results are displayed, select "Internet Options".
- For Windows8/8.1: Press the Windows key to display the start-up screen. Press the search button on the upper right, then enter "Internet Options" on the search screen to search. After the search results are displayed, select "Internet Options".

2 **Select the [Contents] tab and [Certificate], then display the [Certificate] dialog.**

Example of the screen when the OS is set to English

3 **Select the certificate you wish to delete.**

Normally, CA certificates are saved under [Trusted Root Certificate Authorities].

4 **Click [Remove].**

The [Delete certificate?] confirmation dialog will appear.

5 **Click [Yes].**

The certificate will be deleted.

Depending on the certificate type, this procedure may not be able to delete it. In this case, follow the procedure below, confirm the certificate installation status, then delete it.

> **Note**

> • Performing the following procedure requires that you log in as a user with administrator privileges.

1. Open [Run] from the Windows menu, enter [mmc], then click [OK].
2. On the "Console 1" screen, select [Add/Remove Snap-in] from the [File] menu.
   The [Add/Remove Snap-in] dialog will appear.
3. Select [Certificate] from the list and click [Add].
   [Certificates snap-in] will be displayed.
4. Select [Computer Account] as the certificate being managed for this snap-in and click [Next].
5. Select [Local Computer] as the computer being managed for this snap-in and click [Finish].
   The item managing the [Certificate] will be displayed in the console root window. Confirm the certificate in question and delete it.
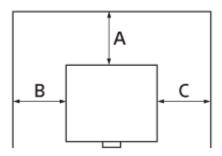
Data Projector
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On Installation

- When installing the projector, leave space between any walls, etc. and the unit as illustrated.
  Top view

A: More than 50 cm (19 11/16 inches)
B: More than 50 cm (19 11/16 inches)
C: More than 50 cm (19 11/16 inches)
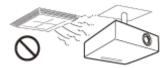
- Avoid using the projector if it is tilted more than 15 degrees horizontally.

- Avoid using the projector in a location where the temperature or humidity is very high, or temperature is very low.

- Avoid installing the projector in a location subject to direct cool or warm air from an air-conditioner. Installing in such a location may cause malfunction of the projector due to moisture condensation or rise in temperature.

- Avoid installing the projector in a location near a heat or smoke sensor. Installing in such a location may cause malfunction of the sensor.

- Avoid installing the projector in a very dusty or extremely smoky environment. Otherwise, the air filter will become obstructed, and this may cause a malfunction of the projector or damage it.

- When using the unit in a location at an altitude of 1,000 m (approx. 3,280 ft) or higher, appropriately set [High Altitude Mode] in 🖵 [Installation] menu. Failing to do so could have adverse effects, such as reducing the reliability of certain components.
- Avoid installing the product in a space where space disinfectant components containing hypochlorous acid and chlorine dioxide are dispersed. Also, avoid spraying sanitizers or disinfectants near the product. This may cause discoloration of the product, deterioration of the material, failure due to corrosion, and easy clogging of the air filter.

Related Topic

- Menu Operation: High Altitude Mode
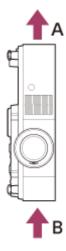
Data Projector
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Precautions for Portrait Installation

When installing the projector in portrait mode, make sure to position the projector with exhaust ventilation holes facing up, as illustrated.

A: Ventilation holes (exhaust)
B: Ventilation holes (intake)

Related Topic

- On Installation
- Menu Operation: High Altitude Mode

Data Projector
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On Cleaning the Lens and the Cabinet

- Be sure to disconnect the AC power cord from the wall outlet before cleaning.
- If you rub on the projector with a stained cloth, the cabinet may be scratched.
- If the projector is exposed to volatile materials such as insecticide, or the projector is in contact with a rubber or vinyl resin product for a long period of time, the projector may deteriorate or the coating may come off.
- Do not touch the lens with bare hands.
- On cleaning the lens surface:
  Wipe the lens gently with a soft cloth, such as a glass cleaning cloth. Stubborn stains may be removed with a soft cloth lightly dampened with water. Never use solvent such as alcohol, benzene or thinner, or acid, alkaline or abrasive detergent, or a chemical cleaning cloth.
- On cleaning the cabinet:
  Clean the cabinet gently with a soft cloth. Stubborn stains may be removed with a soft cloth lightly dampened with mild detergent solution and wrung, followed by wiping with a soft dry cloth. Do not use alcohol, benzine, thinner, sanitizers, or disinfectants.

Data Projector
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On Illumination

To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.

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On Heat Dissipation

The temperature of the projector cabinet may increase during or immediately after use; however, this is not a malfunction.

Data Projector
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On Screen

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

Data Projector
VPL-PHZ61/PHZ51

On Fan
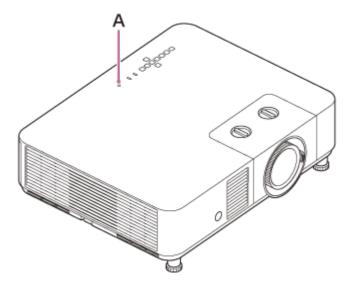
Since the projector is equipped with a fan inside to prevent internal temperature from rising, there may be some noise. This is a normal result of the manufacturing process and does not indicate a malfunction. If, however, in a case of abnormal noise, consult with qualified Sony personnel.

Data Projector
VPL-PHZ61/PHZ51

About the Light Sensor

This unit has a function that uses the light sensor (A) to detect the brightness of the surroundings to perform automatic image quality correction.

Do not block the light sensor when using automatic image quality correction based on the ambient brightness.

Data Projector
VPL-PHZ61/PHZ51

On Inspection of Light Source Related Parts

Since the projector uses a laser, when performing maintenance or inspection of light source related parts, particular attention and a safe environment are necessary. Be sure to consult with qualified Sony personnel.

Data Projector
VPL-PHZ61/PHZ51

On Disposing Used Products

Do not dispose the used products and general garbage together.
Correctly dispose of used products to avoid harming the environment or the health of yourself and others.
Follow the disposal regulations of your area.

Data Projector
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On LCD Projector

The LCD projector is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the LCD projector. This is a normal result of the manufacturing process and does not indicate a malfunction. Also, when you use multiple LCD projectors to project onto a screen, even if they are of the same model, the color reproduction among projectors may vary, since color balance may be set differently from one projector to the next.

Data Projector
VPL-PHZ61/PHZ51

On condensation

If the room temperature where the projector is installed changes rapidly, or if the projector is moved suddenly from a cold to a warm place, condensation in the projector may occur.
As the condensation may cause malfunction, be careful in adjusting temperature settings of the air conditioner.
If condensation occurs, leave the projector turned on for about two hours before use.

Data Projector
VPL-PHZ61/PHZ51

Notes on Security

- SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND RESULTING FROM A FAILURE TO IMPLEMENT PROPER SECURITY MEASURES ON TRANSMISSION DEVICES, UNAVOIDABLE DATA LEAKS RESULTING FROM TRANSMISSION SPECIFICATIONS, OR SECURITY PROBLEMS OF ANY KIND.
- Depending on the operating environment, unauthorized third parties on the network may be able to access the unit. When connecting the unit to the network, be sure to confirm that the network is protected securely.
- From a safety standpoint, when using the unit connected with the network, it is strongly recommended to access the Control window via a Web browser and change the access limitation settings from the factory preset values. Also, it is recommended that you set a password with a sufficiently long character string that is hard to guess by others, and that you store it safely.
- Do not browse any other website in the Web browser while making settings or after making settings. Since the login status remains in the Web browser, close the Web browser when you complete the settings to prevent unauthorized third parties from using the unit or harmful programs from running.
- When connecting this product to a network, connect via a system that provides a protection function, such as a router or firewall. If connected without such protection, security issues may occur.

Related Topic

- Operating the Control Panel

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Data Projector
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Do not place this product close to medical devices

This product (including accessories) has magnet(s) which may interfere with pacemakers, programmable shunt valves for hydrocephalus treatment, or other medical devices. Do not place this product close to persons who use such medical devices. Consult your doctor before using this product if you use any such medical device.

Data Projector
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Disclaimer

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.

Data Projector
VPL-PHZ61/PHZ51

Cleaning the Outer Panel/Air Filter of the Projector
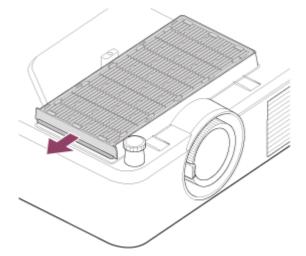
Clean the air filter and ventilation holes (exhaust/intake) periodically.
Clean the air filter when the message that prompts cleaning the air filter appears. The message that prompts cleaning the air filter appears when a clogged air filter is detected or when the time set by the [Filter Timer Notif] has elapsed.
Caution
If you continue to use the projector with the air filter clogged, the internal temperature will rise, and this may cause a malfunction.
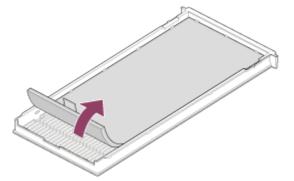
1   **Turn off the projector, and disconnect the AC power cord from a wall outlet.**

2   **Vacuum the dust around the air filter cover and ventilation holes (exhaust/intake) with a vacuum cleaner.**

3   **Slide the air filter cover sideways to remove it.**

  If dust remains in the area where the air filter cover has been removed, vacuum it with a vacuum cleaner.
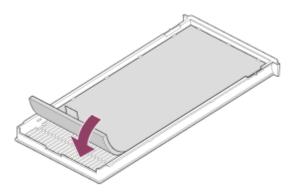
4   **Pull the air filter pull stick upwards, and remove the air filter from the air filter cover.**
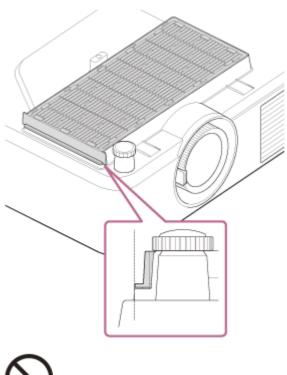
5   **Vacuum the dust from the front side (the side without the pull stick) of the air filter with a vacuum cleaner.**

6   **Attach the air filter to the air filter cover so that the pull stick protrudes outwards from the air filter cover.**

Attach so that there is no gap between the air filter and air filter cover.

7 **Attach the air filter cover to the projector.**

Fully push it in so that there is no gap between the air filter cover and the outer panel surface of the projector.

Note
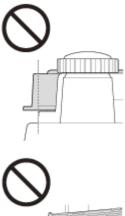
- If you clean the projector without disconnecting the power cord, the fan may spin by accidentally turning the power on, and this may cause damage or injury.

- If you remove the air filter cover while the power is turned on, you may accidentally touch the fan inside the projector, and this may cause injury.

- Do not use a brush to remove dust. Dust may fall inside the projector, and this may cause a malfunction.

- Be sure to attach the air filter when using the projector. If you use the projector without the air filter, dust will be sucked into it, and this may cause a malfunction.

- Do not vacuum the dust from the back side (the side with the pull stick) of the air filter when vacuuming with a vacuum cleaner. This may cause clogging.

- Do not spread out the filter surface or do not press the nozzle of a vacuum cleaner forcibly against it. This may cause damage to the air filter.

- Do not rub the surface of the air filter with a brush. This may cause dust to be pushed into the air filter or damage the air filter.

- Do not use high-pressure air such as an air duster. This may cause dust to be pushed into the air filter, a problem due to the adhesion of contained substances, or damage to the air filter.

- When attaching the air filter to the air filter cover, ensure that the pull stick side of the air filter is on the opposite side of the air filter cover handle. Also, ensure that the surface with the pull stick is facing up.

- Securely attach the air filter to the air filter cover, taking care not to hit the hook of the air filter cover. If the air filter is attached to the air filter cover incorrectly, this may cause a malfunction.

Related Topic

- Message List
- Reading the Indicator
- Menu Operation: Filter Timer Notif
- Replacing/Discarding the Air Filter
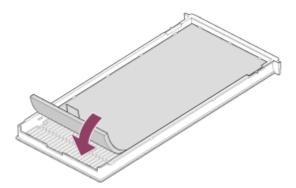
Data Projector
VPL-PHZ61/PHZ51

Replacing/Discarding the Air Filter

In the following cases, replace the air filter with a new one.
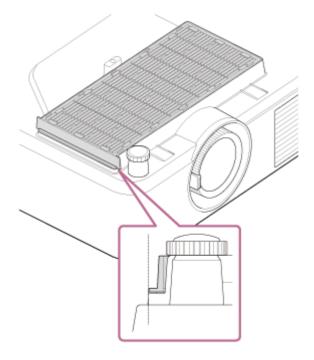
- When the message for cleaning the air filter is displayed right after cleaning the air filter with a vacuum cleaner.
- When the indicator flashes in red right after cleaning the air filter with a vacuum cleaner.
- When dirt is conspicuous even after cleaning the air filter with a vacuum cleaner.
- When the air filter is damaged.

1 **Remove the air filter according to "Cleaning the Outer Panel/Air Filter of the Projector".**

2 **Attach a new air filter to the air filter cover so that the pull stick protrudes outwards from the air filter cover.**

Attach so that there is no gap between the air filter and air filter cover.

3 **Attach the air filter cover to the projector.**
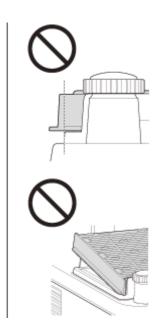
Fully push it in so that there is no gap between the air filter cover and the outer panel surface of the projector.

Follow the laws and regulations of your country or region when disposing the air filter.

Materials

- Air filter (white part): PP, PET
- Cushion (black part): NBR

Note

- When attaching the air filter to the air filter cover, ensure that the pull stick side of the air filter is on the opposite side of the air filter cover handle. Also, ensure that the surface with the pull stick is facing up.

- Securely attach the air filter to the air filter cover, taking care not to hit the hook of the air filter cover. If the air filter is attached to the air filter cover incorrectly, this may cause a malfunction.

Related Topic

- Message List
- Reading the Indicator
- Cleaning the Outer Panel/Air Filter of the Projector

Data Projector
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Updating Software

Here are instructions for updating the projector software.

Updating from a USB Drive

You can download the update file to your computer and copy it to a USB drive, then insert it into the projector's USB terminal to perform the update.
This method requires that you prepare your own USB drive, have a computer with internet connection, and be in an environment that allows the update file to be written to the USB drive.
The update file can be downloaded from the Sony website.
https://pro.sony.com

1 **Copy the update file to the root folder of the USB drive.**

2 **Turn off the projector and unplug the AC power cord.**

3 **Insert the USB drive to the USB terminal of the projector.**

4 **Plug the AC power cord to the wall outlet while pressing the INPUT key on the projector.**

The ON/STANDBY indicator lights up in red and then flashes in orange (updating software).

5 **Release the INPUT key.**

The ON/STANDBY indicator remains lit in red when update is complete.

6 **Press the ❙/ ⏻ (On/Standby) key with the USB drive inserted.**

The ON/STANDBY indicator starts flashing in green.
When there is another update, the ON/STANDBY indicator remains lit in red and the update proceeds automatically.
When there is no additional update, the projector light turns on.

7 **Remove the USB drive from the projector.**

If the projector light is on, turn off the projector to remove the USB drive.

Updating by Connecting to a Network

Connecting a computer to the LAN environment that the projector is connected to allows you to update the projector via a network.
The update file can be downloaded from the Sony website.
https://pro.sony.com
For details, refer to "Using the Software Update Function."

> **Note**
>
> - This projector has been confirmed to be compatible with USB 2.0 drives with capacities of up to 8 GB. However, it is not guaranteed to work with all USB drives.

If formatting your USB drive, be sure that the file system is set to FAT32. Formatting with any other type of file system will make the drive incompatible with the projector.

- Some USB drives may be incompatible. For details, please check the aforementioned website.

- Do not disconnect the AC power cord during the software update process.

Related Topic

- Using the Software Update Function

Data Projector
VPL-PHZ61/PHZ51

Specifications

▌ Optical System

Projection System

3 LCD system

Display Device

Effective Display Size
0.64 in (16.3 mm) × 3, 16:10 Aspect Ratio
Effective Pixels
6,912,000 pixels (1,920 × 1,200 pixels × 3)

Projection Lens

Focus Adjustment
Manual
Zoom Adjustment
Manual (1.6×)

Light Source

Laser diode

Projection Image Size

40 in - 300 in (1.02 m - 7.62 m)

Effective Light Flux (Brightness)

VPL-PHZ61: 6,400 lm ([Light Output Mode]: [Standard])
VPL-PHZ51: 5,300 lm ([Light Output Mode]: [Standard])

▌ Electric System

Speaker

16 W × 1 (Monaural)

Supported Scan Frequency[*1]

Horizontal: 15 kHz - 92 kHz, Vertical: 24 Hz - 92 Hz

Displayable Resolution[*1]

For Computer Signal Input
Maximum Display Resolution: 1,920 × 1,200 pixels
For Video Signal Input
NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p, 2160/60p[*2], 2160/50p[*2], 2160/30p[*2], 2160/25p[*2], 2160/24p[*2]

Color System

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60

*1 For details, refer to the supported signal table.

Input/Output Terminals

For Computer/Video Input and Output

Input A
RGB/Y PB PR Input Terminal: Mini D-sub 15 pin (Female), G with sync/Y: 1 Vp-p±2 dB, sync negative, 75 Ω terminated, RGB signal/PB PR signal: 0.7 Vp-p±2 dB, 75 Ω terminated, Sync signal: TTL level, high impedance, positive-negative polarity
Audio Input Terminal: Stereo mini jack, Rated input: 500 mVrms, Input impedance: 47 kΩ or above
Input B/Input C
HDMI Input Terminal: 19-pin HDMI, HDCP
Audio Input Terminal: HDMI audio supported
Input D
HDBaseT Input Terminal: RJ45, digital RGB/Y PB PR, HDCP supported, RS-232C, Ethernet (100Base-TX) transmission supported
Video Input
Video Input Terminal: Phono jack, 1 Vp-p±2 dB, sync negative, 75 Ω terminated
Audio Input Terminal: Shared with Input A
Output
Audio Output Terminal: Stereo mini jack, Stereo, 1 Vrms (maximum volume, when inputting 500 mVrms), Output impedance: 5 kΩ

Other Terminals

RS-232C Terminal: D-Sub 9 pin (Male)
LAN Terminal: RJ45, 10BASE-T/100BASE-TX
USB Terminal: Type A
USB Power Supply Terminal: Type A

Power Supply/Other

Operating Temperature (Operating Humidity)

0 °C to 40 °C (32 °F to 104 °F) (20% - 80% (No condensation))

Storage Temperature (Storage Humidity)

−10 °C to +60 °C (14 °F to 140 °F) (20% - 80% (No condensation))

Power Requirements

100 V to 240 V AC, 4.7 A – 2.0 A, 50/60 Hz

Power Consumption

AC 100 V to 120 V: 463 W
AC 220 V to 240 V: 434 W

Standby Power Consumption (Standby Mode)

0.5 W (When setting [Standby Mode] to [Low] and [Remote Start] to [Off])

Standby Power Consumption (Network Standby Mode)

1.0 W (When setting [Standby Mode] to [Low] and [Remote Start] to [On])
21.0 W (If all network ports are connected) (When setting [Standby Mode] to [Standard])

Heat Dissipation

AC 100 V to 120 V: 1,580 BTU/h
AC 220 V to 240 V: 1,481 BTU/h

Standard Dimensions (W/H/D)

422 mm × 129 mm × 338 mm (16 5/8 in × 5 3/32 in × 13 5/16 in)
422 mm × 100 mm × 333 mm (16 5/8 in × 3 15/16 in × 13 1/8 in) (Without projecting parts)

Mass

VPL-PHZ61: Approx. 7.0 kg (15 lb)
VPL-PHZ51: Approx. 6.8 kg (15 lb)

Supplied Accessories

Remote Commander (RM-PJ8) (1)
Lithium battery (CR2025) (1)
AC power cord (1)
Light shield (1)
Setup Guide (1)

Design and specifications of the unit, including the optional accessories, are subject to change without notice.

Related Topic
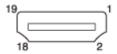
 Compatible Signal List (Computer Signal)
 Compatible Signal List (Video Signal)

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Pin Assignment (HDMI Terminal)

HDMI Terminal (HDMI, Female)
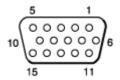
Pin Number	Function
1	T.M.D.S. Data2 +
2	T.M.D.S. Data2 Shield
3	T.M.D.S. Data2 -
4	T.M.D.S. Data1 +
5	T.M.D.S. Data1 Shield
6	T.M.D.S. Data1 -
7	T.M.D.S. Data0 +
8	T.M.D.S. Data0 Shield
9	T.M.D.S. Data0 -
10	T.M.D.S. Clock +
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock -
13	N.C.
14	RESERVED (N.C.)
15	SCL
16	SDA
17	DDC GND
18	+5 V Power
19	Hot Plug Detect

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Pin Assignment (RGB Input Terminal)

RGB Input Terminal (Mini D-sub 15 pin, Female)
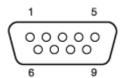
Pin Number	Function
1	Image Input (Red) R
2	Image Input (Green) G
3	Image Input (Blue) B
4	Ground
5	RESERVE
6	Ground (For red)
7	Ground (For green)
8	Ground (For blue)
9	Power input for DDC
10	Ground
11	Ground
12	DDC/SDA
13	Horizontal synchronization signal
14	Vertical synchronization signal
15	DDC/SCL

Data Projector
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Pin Assignment (RS-232C Terminal)

RS-232C Terminal (D-Sub 9 pin, Male)
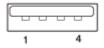
Pin Number	Function
1	NC
2	RXDA
3	TXDA
4	DTR
5	GND
6	NC
7	RTS
8	CTS
9	NC

Data Projector
VPL-PHZ61/PHZ51
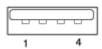
Pin Assignment (USB Terminal)

USB Terminal (Type A, Female)

Pin Number	Function
1	V BUS (4.4 - 5.25 V)
2	Data −
3	Data +
4	Ground

USB Power Supply Terminal (Type A, Female)

Pin Number	Function
1	V BUS (4.4 - 5.25 V)
2	N.C.
3	N.C.
4	Ground

Data Projector
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Compatible Signal List (Computer Signal)

Note

- The projector may not be able to display the image properly if an input signal not listed in the table is used.

- With input signals that differ from the panel display resolution, the input signal may not be displayed at the same resolution, and the text, ruled line thickness, and so on may become unbalanced.

- The source device may not detect signals automatically, even if the signal to be input is a compatible signal. In this case, set the signal manually.

Resolution	fH[kHz]/fV[Hz]	INPUT A	INPUT B / INPUT C / INPUT D
640 x 350	31.5/70	Compatible	Not compatible
640 x 350	37.9/85	Compatible	Not compatible
640 x 400	31.5/70	Compatible	Not compatible
640 x 400	37.9/85	Compatible	Not compatible
640 x 480	31.5/60	Compatible	Compatible
640 x 480	35.0/67	Compatible	Not compatible
640 x 480	37.9/73	Compatible	Not compatible
640 x 480	37.5/75	Compatible	Not compatible
640 x 480	43.3/85	Compatible	Not compatible
800 x 600	35.2/56	Compatible	Not compatible
800 x 600	37.9/60	Compatible	Compatible
800 x 600	48.1/72	Compatible	Not compatible
800 x 600	46.9/75	Compatible	Not compatible
800 x 600	53.7/85	Compatible	Not compatible
832 x 624	49.7/75	Compatible	Not compatible
1024 x 768	48.4/60	Compatible	Compatible
1024 x 768	56.5/70	Compatible	Not compatible
1024 x 768	60.0/75	Compatible	Not compatible
1024 x 768	68.7/85	Compatible	Not compatible
1152 x 864	64.0/70	Compatible	Not compatible
1152 x 864	67.5/75	Compatible	Not compatible
1152 x 864	77.5/85	Compatible	Not compatible

Resolution	fH[kHz]/fV[Hz]	INPUT A	INPUT B / INPUT C / INPUT D
1152 x 900	61.8/66	Compatible	Not compatible
1280 x 960	60.0/60	Compatible	Compatible
1280 x 960	75.0/75	Compatible	Not compatible
1280 x 1024	64.0/60	Compatible	Compatible
1280 x 1024	80.0/75	Compatible	Not compatible
1280 x 1024	91.1/85	Compatible	Not compatible
1400 x 1050	65.3/60	Compatible	Compatible
1600 x 1200	75.0/60	Compatible	Compatible
1280 x 768	47.8/60	Not compatible	Compatible
1280 x 720	45.0/60	Compatible	Compatible[*1]
1920 x 1080	67.5/60	Compatible	Compatible[*2]
1366 x 768	47.7/60	Compatible	Compatible
1400 x 1050	64.0/60	Compatible	Compatible
1400 x 1050	64.7/60	Compatible	Compatible
1440 x 900	55.9/60	Compatible	Compatible
1680 x 1050	65.3/60	Not compatible	Compatible
1280 x 800	49.7/60	Compatible	Compatible
1920 x 1200	74.0/60	Compatible[*3]	Compatible[*3]

*1 Identified as a 720/60p video transmission signal.
*2 Identified as a 1080/60p video transmission signal.
*3 Only 1920 x 1200 VESA Reduced Blanking signals are compatible.

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VPL-PHZ61/PHZ51

Compatible Signal List (Video Signal)

Note

- The projector may not be able to display the image properly if an input signal not listed in the table is used.

- With input signals that differ from the panel display resolution, the input signal may not be displayed at the same resolution, and the text, ruled line thickness, and so on may become unbalanced.

- The source device may not detect signals automatically, even if the signal to be input is a compatible signal. In this case, set the signal manually.

Signal Name	fV[Hz]	VIDEO IN	INPUT A *1	INPUT B / INPUT C	INPUT D (HDBaseT)
NTSC	60	Compatible	Not compatible	Not compatible	Not compatible
PAL/SECAM	50	Compatible	Not compatible	Not compatible	Not compatible
480i	60	Not compatible	Compatible	Compatible	Compatible
576i	50	Not compatible	Compatible	Compatible	Compatible
480p	60	Not compatible	Compatible	Compatible	Compatible
576p	50	Not compatible	Compatible	Compatible	Compatible
1080i	60	Not compatible	Compatible	Compatible	Compatible
1080i	50	Not compatible	Compatible	Compatible	Compatible
720p	60	Not compatible	Compatible	Compatible	Compatible
720p	50	Not compatible	Compatible	Compatible	Compatible
1080p	60	Not compatible	Compatible	Compatible	Compatible
1080p	50	Not compatible	Compatible	Compatible	Compatible
1080p	24	Not compatible	Not compatible	Compatible	Compatible
3840 x 2160	24	Not compatible	Not compatible	Compatible	Compatible
3840 x 2160	25	Not compatible	Not compatible	Compatible	Compatible
3840 x 2160	30	Not compatible	Not compatible	Compatible	Compatible
3840 x 2160	50	Not compatible	Not compatible	Compatible	Not compatible
3840 x 2160	60	Not compatible	Not compatible	Compatible	Not compatible
4096 x 2160	24	Not compatible	Not compatible	Compatible	Compatible
4096 x 2160	25	Not compatible	Not compatible	Compatible	Compatible
4096 x 2160	30	Not compatible	Not compatible	Compatible	Compatible

Signal Name	fV[Hz]	VIDEO IN	INPUT A [*1]	INPUT B / INPUT C	INPUT D (HDBaseT)
4096 x 2160	50	Not compatible	Not compatible	Compatible	Not compatible
4096 x 2160	60	Not compatible	Not compatible	Compatible	Not compatible

*1   Only compatible with G/Y signal with sync.

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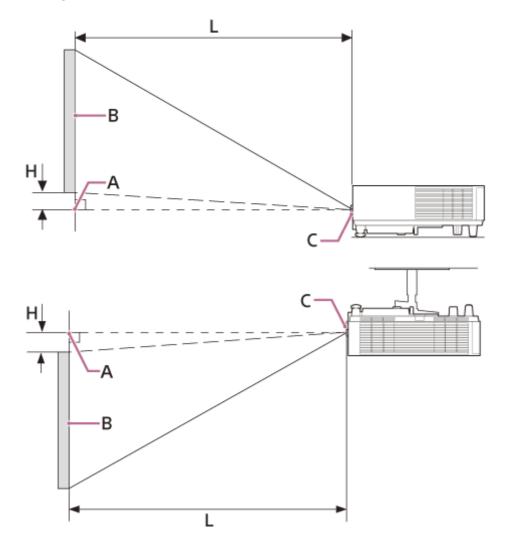
Projection Distance

The projection distance is the distance from the front surface of the lens to the projection surface.
The projection screen height is the distance from the point of intersection (A in the image) of the line drawn perpendicular to the surface projected from the lens center and the projection surface, to the lower edge (upper edge when installed to the ceiling) of the projection screen.
For this projector, the projection distance value for when the projector is installed to the floor and to the ceiling is the same.

When installed to the floor/ceiling (install so that the projector upper surface is parallel with the ceiling)

A: The point of intersection of the line drawn perpendicular to the surface projected from the lens center and the projection surface
B: Projection screen
C: Lens front surface
H: Projection screen height position
L: Projection distance

Related Topic

- Projection Distance/Projection Distance Formula

Data Projector
VPL-PHZ61/PHZ51

Projection Distance/Projection Distance Formula

Projection Distance

80-inch screen size (2.03 m) (Horizontal: 1.72 m × Vertical: 1.08 m) (Width 68 in × Height 42 in)

- Projection Distance L: 2.12 m - 3.39 m (84 in - 133 in)
- Projection Screen Height Position H (Minimum): −0.91 m (−36 in)
- Projection Screen Height Position H (Maximum): 0.05 m (2 in)

100-inch screen size (2.54 m) (Horizontal: 2.15 m × Vertical: 1.35 m) (Width 85 in × Height 53 in)

- Projection Distance L: 2.65 m - 4.24 m (105 in - 166 in)
- Projection Screen Height Position H (Minimum): −1.14 m (−45 in)
- Projection Screen Height Position H (Maximum): 0.06 m (2 in)

120-inch screen size (3.05 m) (Horizontal: 2.58 m × Vertical: 1.62 m) (Width 102 in × Height 64 in)

- Projection Distance L: 3.18 m - 5.09 m (126 in - 200 in)
- Projection Screen Height Position H (Minimum): −1.37 m (−54 in)
- Projection Screen Height Position H (Maximum): 0.08 m (3 in)

150-inch screen size (3.81 m) (Horizontal: 3.23 m × Vertical: 2.02 m) (Width 127 in × Height 79 in)

- Projection Distance L: 3.98 m - 6.36 m (157 in - 250 in)
- Projection Screen Height Position H (Minimum): −1.71 m (−67 in)
- Projection Screen Height Position H (Maximum): 0.10 m (3 in)

200-inch screen size (5.08 m) (Horizontal: 4.31 m × Vertical: 2.69 m) (Width 170 in × Height 106 in)

- Projection Distance L: 5.30 m - 8.48 m (209 in - 333 in)
- Projection Screen Height Position H (Minimum): −2.28 m (−90 in)
- Projection Screen Height Position H (Maximum): 0.13 m (5 in)

Projection Distance Formula

D: Screen Size (Inches)
Ex.) If the screen size is 80 inches, enter 80 for D.
H: Height from center of lens to bottom edge of screen

Formula 1 (Unit: m (in))

- Projection Distance L (Minimum): $L = 0.026483 \times D + 0.0001$ ($L = 1.042640 \times D + 0.0032$)
- Projection Distance L (Maximum): $L = 0.042417 \times D + 0.0000$ ($L = 1.669953 \times D + 0.0013$)

Formula 2 (Unit: m (in))

- Projection Screen Height Position H (Minimum): $H = –0.011443 \times D$ ($H = –0.450499 \times D$)
- Projection Screen Height Position H (Maximum): $H = 0.000673 \times D$ ($H = 0.026500 \times D$)

Related Topic

- Projection Distance
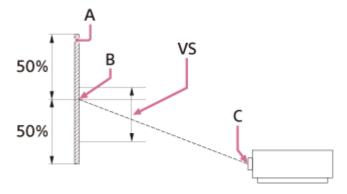
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Lens Shift Range

The lens shift range represents the distance in percent (%) by which the lens can be shifted from the initial position of the projected image, with full width or full height of the projected image regarded as 100%.

Side view
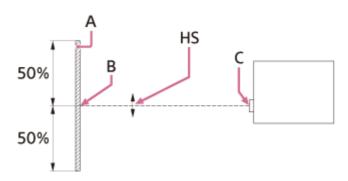
A: Projected image
B: Center of the projected image
C: Center of the lens
VS: Lens shift range

Top view
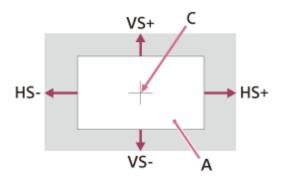
A: Projected image
B: Center of the projected image
C: Center of the lens
HS: Lens shift range

Lens shift range

A: Projected image
C: Center of the image
Shaded region: Lens shift range
VS+: Vertical lens shift range (up) [%]
VS−: Vertical lens shift range (down) [%]
HS+: Horizontal lens shift range (right) [%]
HS−: Horizontal lens shift range (left) [%]
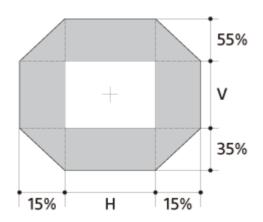
VS+ = 55 [%]
VS− = 35 [%]
HS+ = HS− = 15 [%]

VS+ [%] = 55 − 3.667 × (HS+ [%] or HS− [%])
VS− [%] = 35 − 2.333 × (HS+ [%] or HS− [%])
HS+ [%] = HS− [%] = 15 − 0.273 × VS+ [%]
HS+ [%] = HS− [%] = 15 − 0.429 × VS− [%]
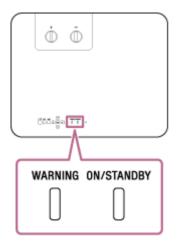
Data Projector
VPL-PHZ61/PHZ51

Reading the Indicator

You can check the projector status or abnormality by checking the lighting/flashing status of the ON/STANDBY indicator and WARNING indicator.
If the indicators flash in red, follow the instructions under "Warning Indication and Remedies" to resolve the issue.

Top of the main unit

Status Indication

WARNING: Off, ON/STANDBY: Lights in red

Standby mode
The power is supplied to the projector and the projector is in a standby mode according to the setting.

WARNING: Off, ON/STANDBY: Flashes in green

Warm-up state
The projector is warming up after it is turned on.

WARNING: Off, ON/STANDBY: Lights in green

Power on state
The projector is ready for projection.

WARNING: Off, ON/STANDBY: Lights in orange

WARNING ON/STANDBY

Other standby state
The projector is in With No Input (Light Cutoff) or the [Speaker Setting] is set to [Always On].

WARNING: Off, ON/STANDBY: Flashes in orange

WARNING ON/STANDBY

Updating software
The projector software is being updated.

Warning Indication and Remedies

WARNING: Flashes in red, ON/STANDBY: Lights in red

WARNING ON/STANDBY

Number of flashes: Twice
The top cover is not properly attached.
Check the attachment of the top cover. If it has been loosened due to a strong impact to the projector, consult with qualified Sony personnel.

Number of flashes: Three times
The light source does not light properly.
Unplug the AC power cord and make sure the ON/STANDBY indicator turns off, then plug the AC power cord into the wall outlet and turn on the projector.

WARNING: Flashes in red, ON/STANDBY: Flashes in red

Both indicators flash

WARNING ON/STANDBY

Number of flashes: Twice
The temperature in the projector is abnormal.

- Check if the air filter is clogged, then clean or replace it.
- Check if the ventilation holes (intake/exhaust) are not blocked by the wall or an object and secure a sufficient gap.
- Check the ambient temperature and use the projector within the range of operating temperature.

> **Note**
>
> - If the indicators flash in a manner other than described above, unplug the AC power cord and make sure the ON/STANDBY indicator turns off, then plug the AC power cord into the wall outlet and turn on the projector. If the problem still persists, consult with qualified Sony personnel.

Related Topic
- Cleaning the Outer Panel/Air Filter of the Projector

Data Projector
VPL-PHZ61/PHZ51

Message List

If a message such as one of the following appears on the screen, follow the instructions in the table to resolve the issue.

Message	Meaning/Solution
● Clean the filter. ● Filter clog is detected. Please clean the filter. ● Filter clog is detected. Please clean the filter. The power will turn off in 5 minutes.	● Confirm that the air filter is not blocked and either clean the filter or replace it. ● Confirm that the ventilation holes are not blocked by a wall or other object, and secure a sufficient gap.
High temp.! Light off in 1 min.	● Confirm that the air filter is not blocked and either clean the filter or replace it. ● Confirm that the ventilation holes are not blocked by a wall or other object, and secure a sufficient gap. ● When using the projector in a location at a high altitude, appropriately set the High Altitude Mode. ● Check the projector's ambient temperature and use it within a temperature range in which it is operable.
Frequency is out of range!	Change the signal to one that is compatible with the projector from the playback device screen settings.
Please check Input-A Signal Sel.	Set [Input-A Signal Sel.] to [Auto] or a setting appropriate for the input signal.
Not applicable!	An invalid key was pressed.
The control keys are locked!	The panel key lock has been set.
Light Dimming	This is displayed when the light output decreases due to the settings for when there is no change in the signal. When a signal change or operation (Remote Commander or control panel) is detected, it will revert to its normal state.

Related Topic

- Parts and Controls (Main Unit)
- Parts and Controls (Remote Commander and Control Panel)
- Menu Operation: Control Key Lock
- Menu Operation: Input-A Signal Sel.
- Menu Operation: ECO
- Cleaning the Outer Panel/Air Filter of the Projector
- Replacing/Discarding the Air Filter
- Compatible Signal List (Computer Signal)
- Compatible Signal List (Video Signal)

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VPL-PHZ61/PHZ51

No Power

- Confirm that the AC power cord is firmly inserted.
- If [Control Key Lock] is [On], power cannot be supplied via the ▌/⏻ (On/Standby) key on the main unit. Set [Control Key Lock] in the ▤ [Operation] menu to [Off].

Related Topic

- Menu Operation: Control Key Lock

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No Image is Displayed

- Confirm that the cable connected to the playback device is firmly inserted.
- Confirm that the computer's output settings are set to external monitor output.
  For laptops, etc., setting the output signal to be output both to the computer's LCD and the external monitor may cause the image to not be displayed correctly on the external monitor. If this occurs, configure the computer's settings so that it only outputs to the external monitor.
- Confirm that the input is selected correctly.
- Confirm that the BLANK key is not pressed and that the image is not being deleted.

Related Topic

- Parts and Controls (Remote Commander and Control Panel)
- Precautions When Connecting
- Projecting Images

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Cannot Connect to Computer

- Check the network settings.

Related Topic

- Menu Operation: Network Setting

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No On-screen Display

- Set [Status] in the ▣ [Operation] menu to [On].

Related Topic

- Menu Operation: Status

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Screen Aspect Ratio is Strange/Screen Display is Small/Part of Image Not Displayed

- The screen may not be displayed properly sometimes if the input signal is not properly determined. If this occurs, manually configure [Aspect] in the ⊞ [Screen] menu.

Related Topic

- Menu Operation: Aspect

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Trapezoidal Screen

- If the projection is diagonal relative to the projection surface, the screen will appear trapezoidal. If this occurs, you can use the keystone correction function to correct the issue.

Related Topic

- Correcting a Vertical Trapezoid
- Correcting a Horizontal Trapezoid

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Edges of the image are cut off or dark

- If you use the lens shift function with a setting outside the recommended range, edges of the image may be cut off or appear dark. Use a setting within the normal range for the lens shift function.

Related Topic

- Lens Shift Range

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Screen Distortion

- The warping setting is active. Deactivate [Warping] in the ▣ [Installation] menu.

Related Topic

- Correcting Screen Distortion

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Screen is Too Dark/Bright

- The [Brightness], [Contrast], and [Light Output Mode] settings change the screen brightness. In the [Projection Setting] menu, confirm that the values are set to appropriate values.
- [With Static Signal] under [ECO] in the [Connection/Power] menu is set to [Light Dimming].
- If there is no image signal, power consumption is reduced, and the light intensity decreases.
- When using the projector in a location where the surrounding temperature is high, the luminance is sometimes reduced to protect the projector.

Related Topic

- Menu Operation: Contrast
- Menu Operation: Brightness
- Menu Operation: Light Settings
- Menu Operation: ECO

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Blurry Screen

- Adjust the focus.
- The screen will blur if there is condensation on the lens. If there is condensation, keep the projector plugged in and let it sit for approximately two hours.

Related Topic

- Adjusting the Screen Focus
- On condensation

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VPL-PHZ61/PHZ51

Screen Noise

- Confirm that the cable connected to the playback device is firmly inserted.

Related Topic
- Precautions When Connecting

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No Sound

- Confirm that the cable that is connected to the playback device or the external audio device is firmly inserted.
- Confirm that the external audio device is configured correctly.
- If [Speaker] is set to [Off], there will be no sound output. Set [Speaker] in the ▤ [Function] menu to [On].
- If the MUTING key was pressed and the sound is muted, there will be no sound output. Press the MUTING key one more time.
- Confirm that the volume is not set to the minimum.

Related Topic

- Connecting to Audio Equipment
- Menu Operation: Speaker

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Remote Commander Does Not Function

- Confirm that the batteries are inserted correctly.
- Confirm that the batteries are not depleted.
- Check the setting for [IR Receiver].

Related Topic

- Inserting the Battery into the Remote Commander
- Menu Operation: IR Receiver

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VPL-PHZ61/PHZ51

Loud Fan

- The noise from the fan may grow louder due to the following types of situations where it is necessary to cool the light source or other components.

  - Set [Light Output Mode] in [Light Settings] in the ▣ [Projection Setting] menu to [Standard].
  - The projector is being used at a high altitude (set [High Altitude Mode] in the 모 [Installation] menu to [Level2] or Level1]).
  - The projector is being used in a location where the surrounding temperature is high.

- Confirm that the air filter is not blocked and either clean the filter or replace it.
- Confirm that the ventilation holes are not blocked by a wall or other object, and a secure sufficient gap.

Related Topic

- Cleaning the Outer Panel/Air Filter of the Projector
- Replacing/Discarding the Air Filter
- On Installation

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--
Igor Pavlov

zlib-1.2.7
ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.7 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.7 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32
compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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