

Data Projector
VPL-CWZ10/CXZ10



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.

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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)
- Mini D-sub 15-pin cable (1.8 m) (1)
(1-970-584-11/Sony)
- Air filter cover (1)^{*1}
- Dust cover assembly (1)^{*1}
- Setup Guide (1)

*1 For the customers in India only

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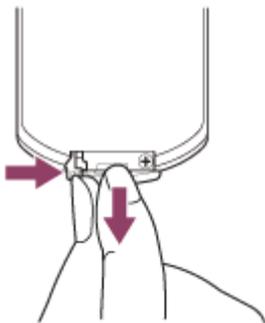
Inserting the Battery into the Remote Commander

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.

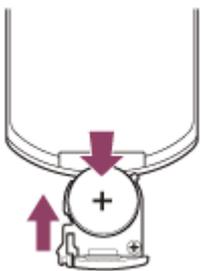
1 Pull out the lithium battery compartment.

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.

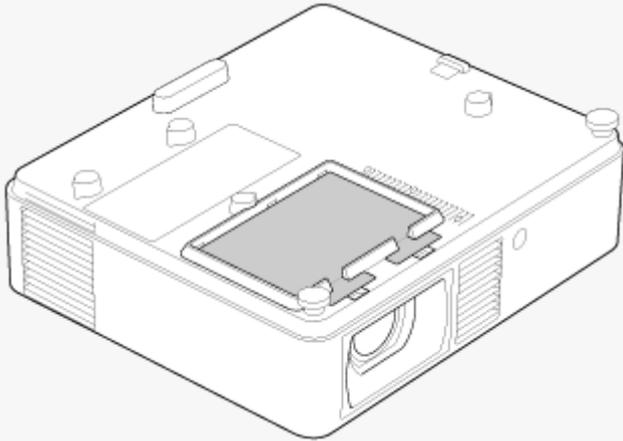


3 Close the lithium battery compartment.

Attaching the Air Filter (For the Customers in India only)

Note

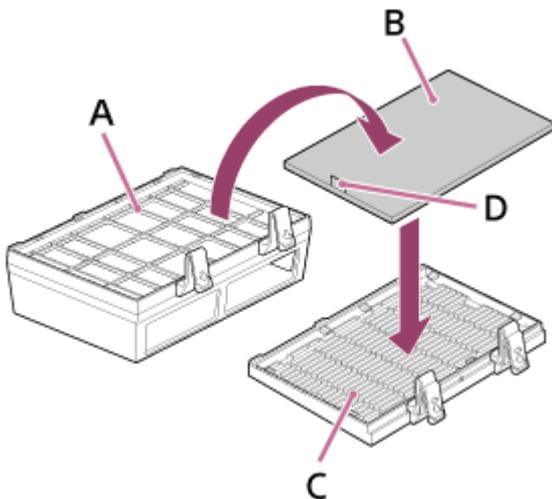
- Make sure to remove the protective cover on the unit before attaching the air filter to the unit.



The supplied accessories required vary depending on the installation method.

For installing to the floor

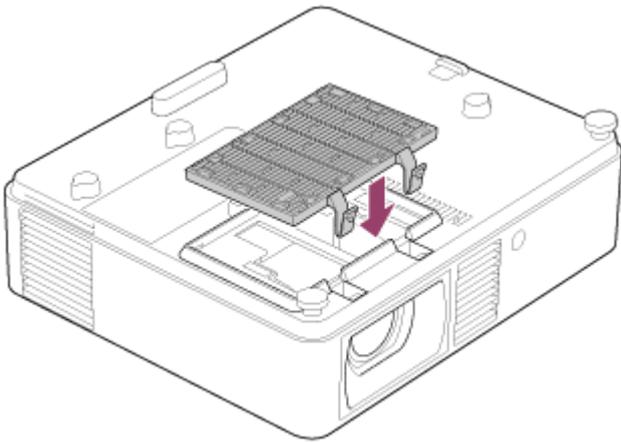
- 1 Remove the air filter (B) from the dust cover assembly (A), and then attach the air filter to the air filter cover (C).



Pull the pull stick (D) upwards when removing the air filter from the dust cover assembly.

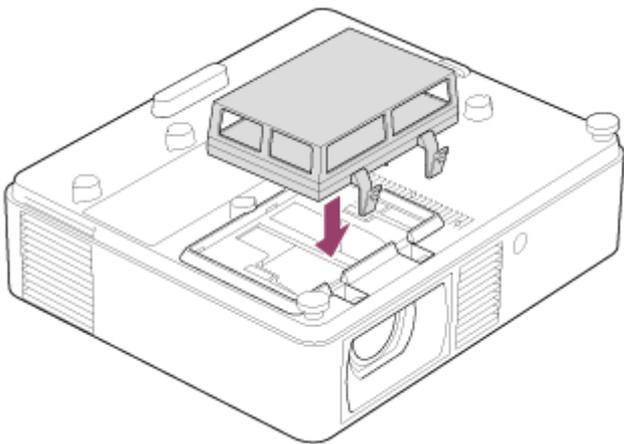
When attaching the air filter to the air filter cover, make sure the correct side is being attached so that the pull stick is protruding from the air filter.

- 2 Attach the air filter cover to the unit by pushing the two levers on it.



For installing to the ceiling

Attach the dust cover assembly to the unit by pushing the two levers on it.



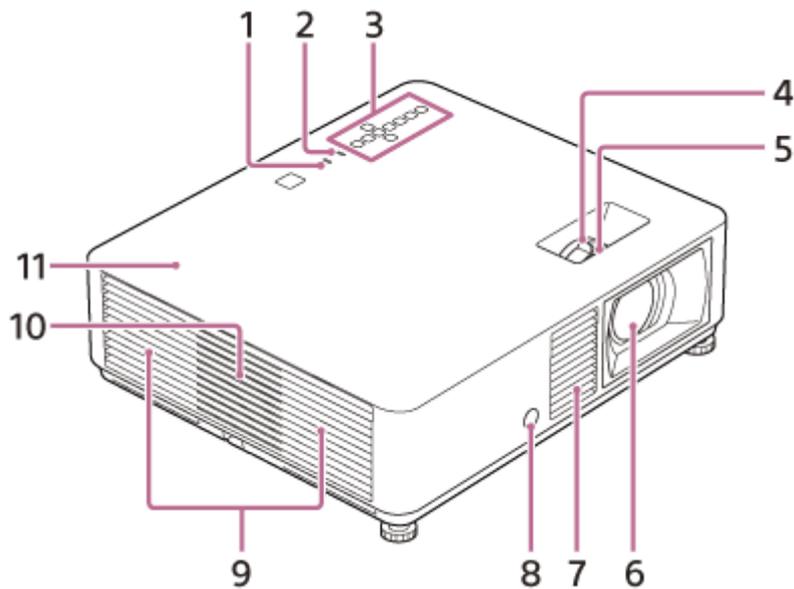
Note

- When installing to the floor, 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, malfunction may occur.
- When installing to the ceiling, securely attach the dust cover assembly to the unit. Incorrect attachment of the dust cover assembly may cause a malfunction.

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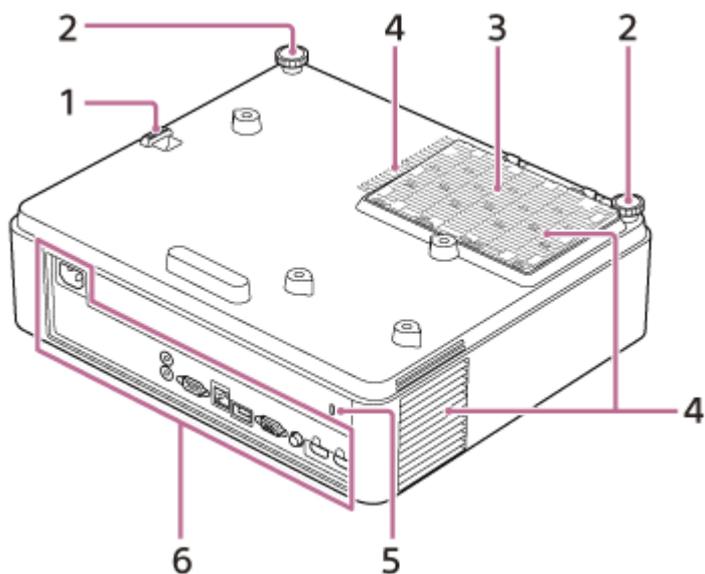
Parts and Controls (Main Unit)

Top/Front /Right



1. ON/STANDBY indicator
2. WARNING indicator
3. Control panel
4. Zoom lever
5. Focus lever
6. Projection lens
7. Ventilation holes (intake)
8. Remote control receiver
9. Ventilation holes (exhaust)
10. Speaker
11. 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. Antitheft lock

For attaching theft prevention cables manufactured by Kensington.

For details, visit the Kensington website.

<http://www.kensington.com/>

6. Terminals

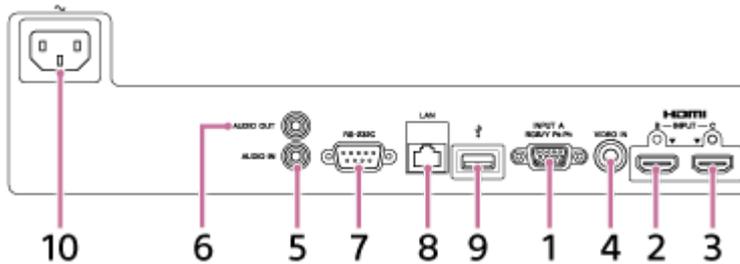
Caution

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 Air Filter](#)
- [Reading the Indicator](#)

Parts and Controls (Connection Terminals)



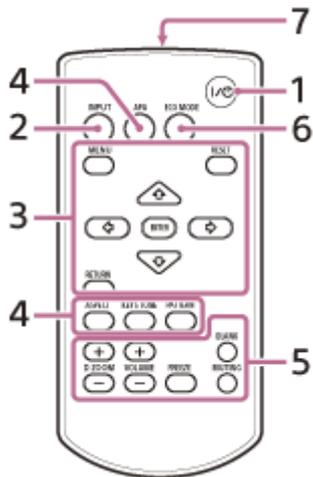
- 1. Input A (INPUT A)**
Video: RGB/Y PB PR input terminal (RGB/Y PB PR)
- 2. Input B (INPUT B)**
Video: HDMI input terminal (HDMI)
Audio: HDMI input terminal (HDMI)
- 3. Input B (INPUT C)**
Video: HDMI input terminal (HDMI)
Audio: HDMI input terminal (HDMI)
- 4. Video (VIDEO IN)**
Video: Video input terminal
- 5. Audio (AUDIO IN)**
Audio: Audio input terminal
- 6. Audio (AUDIO OUT)**
Audio: Audio output terminal
- 7. 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).
- 8. LAN terminal**
- 9. USB terminal (Type A) ()**
Terminal for software update.
- 10. AC IN socket ()**
Connect the supplied AC power cord.

Related Topic

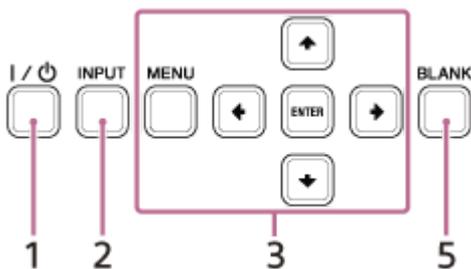
- [Connecting to a Computer with an RGB Output Terminal](#)
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- [Connecting to a Computer via a Hub or Router](#)
- [Connecting to a Video Device with a Video Output Terminal](#)
- [Connecting to a Video Device with a Y PB PR Output Terminal](#)
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- [Connecting to Audio Equipment](#)

Parts and Controls (Remote Commander and Control Panel)

Remote Commander



Control panel



1. **I / ⏻ (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. This can be used when there is a computer signal being input.

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

- [Turning Power On/Off](#)
- [Projecting Images](#)
- [Using the Digital Zoom Function](#)
- [Using Eco Mode](#)
- [Navigating Menus](#)

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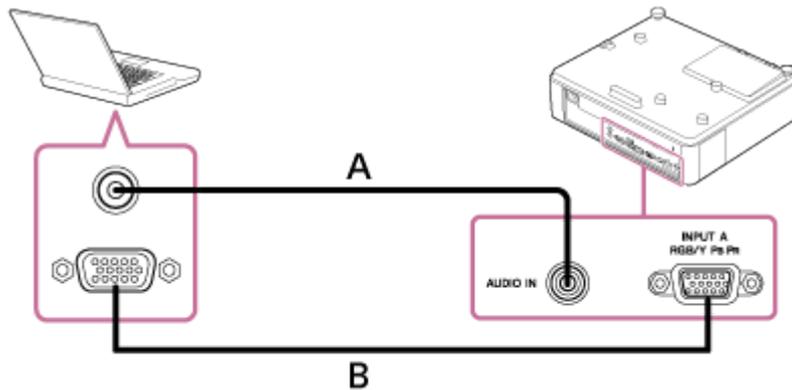
Precautions When Connecting

- 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 (supplied)

Hint

- For the screen settings of your computer, it is recommended that you set the resolution of an external monitor as below;
 - VPL-CWZ10: 1,280 × 800 pixels
 - VPL-CXZ10: 1,024 × 768 pixels

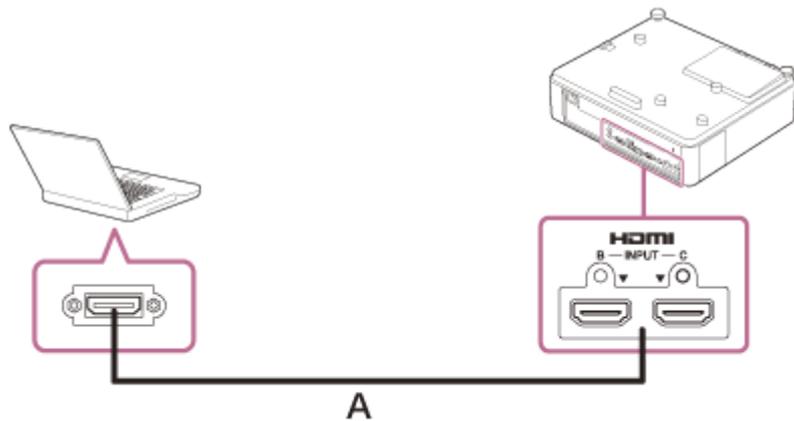
Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)

Data Projector
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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

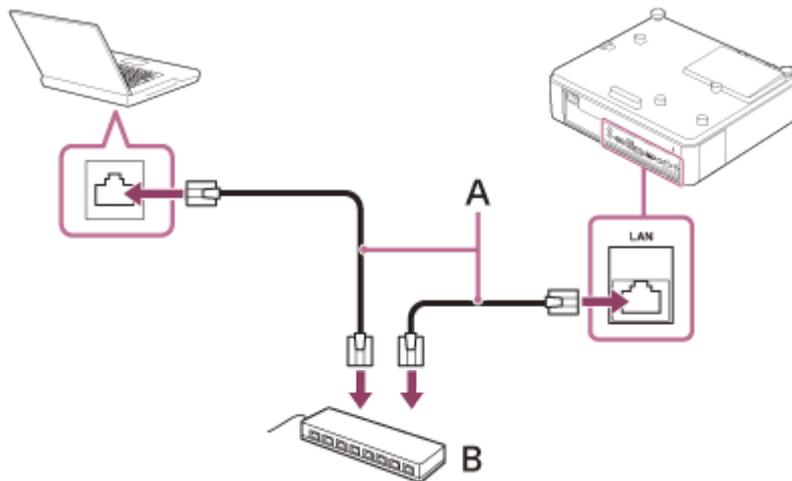
- Use an HDMI-compatible device with the HDMI Logo.
- Use a high speed HDMI cable(s) on which the cable type logo is specified. (Sony products are recommended.)
- The HDMI terminal of this projector is not compatible with DSD (Direct Stream Digital) signals and CEC (Consumer Electronics Control) signals.

Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)

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

- 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.**

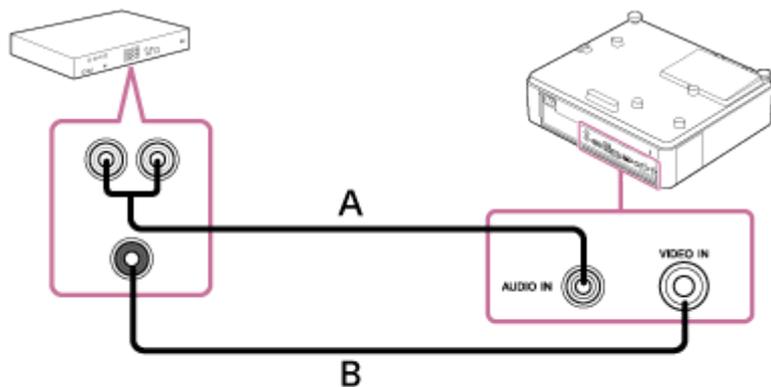
Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)
- [Setting Advertisement](#)
- [Setting PJ Link](#)
- [Setting PJ Talk](#)
- [Setting ADCP](#)

Data Projector
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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)

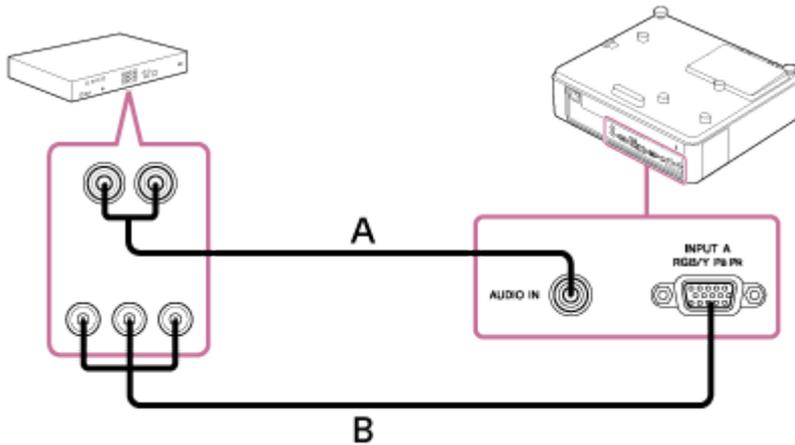
Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)

Data Projector
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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)

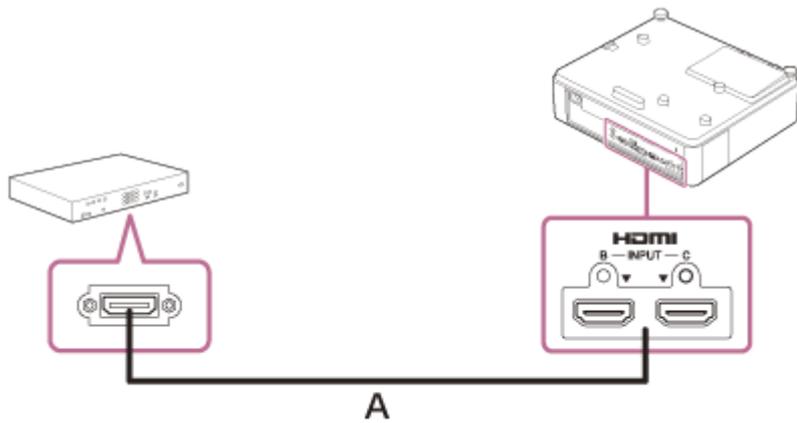
Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)

Data Projector
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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 high speed HDMI cable(s) on which the cable type logo is specified. (Sony products are recommended.)
- The HDMI terminal of this projector is not compatible with DSD (Direct Stream Digital) signals and CEC (Consumer Electronics Control) signals.

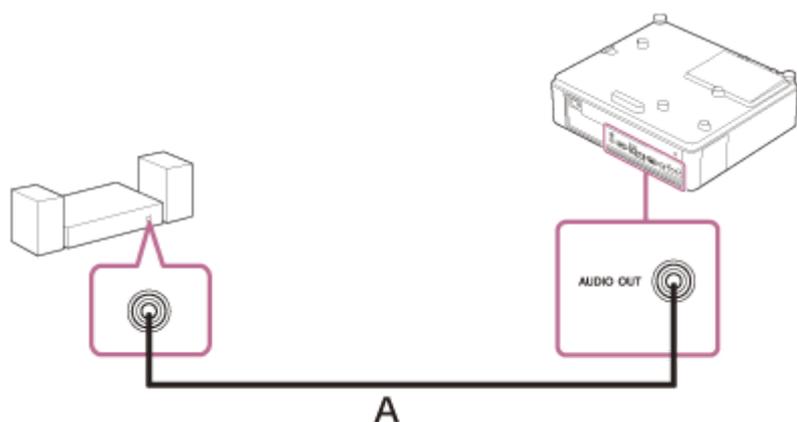
Related Topic

- [Parts and Controls \(Connection Terminals\)](#)
- [Precautions When Connecting](#)

Data Projector
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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)

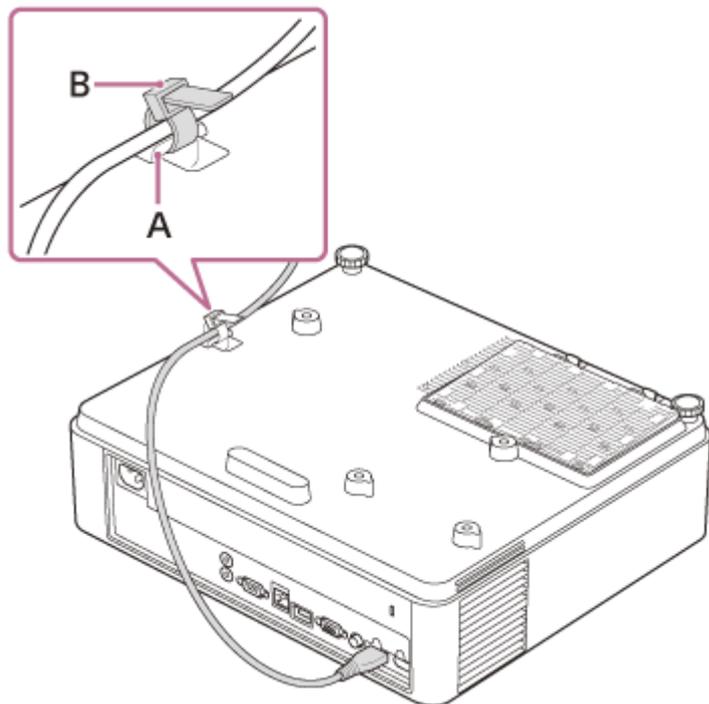
Related Topic

- [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 \(Main Unit\)](#)

Data Projector
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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 \(Remote Commander and Control Panel\)](#)

Selecting the Menu Language

The factory setting for the language for displaying menus, messages, etc. is English. To change the on-screen language, proceed as follows:

1 Press the MENU key to display the menu screen.

If the display cannot be properly seen, adjust the focus, size, and position of the projected image.

2 Select the menu language.

1. Press the **▲** (Up) or **▼** (Down) key to select **☰** [Operation] (Operation), then press the ENTER key.
2. Press the **▲** (Up) or **▼** (Down) key to select **A** [Language] (Language), then press the ENTER key.



3. Press the **▲** / **▼** / **◀** / **▶** (Up/Down/Left/Right) key to select a language, then press the ENTER key.

3 Press the MENU key to turn off the menu screen.

Related Topic

- [Menu Operation: Language](#)

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Projecting Images

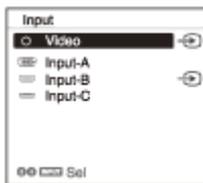
The size of the projected image changes depending on the distance from the projector to the screen (projection distance). Install the projector so that it matches the screen size.

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

2 Turn on the connected device.

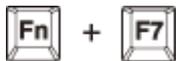
3 Select the input source.

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.



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

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



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

Related Topic

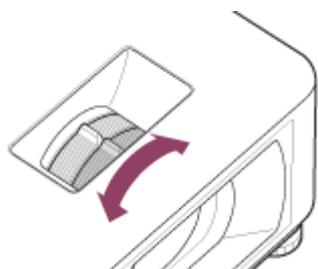
- [Projection Distance](#)
- [Adjusting the Screen Focus](#)
- [Adjusting the Screen Size](#)
- [Adjusting the Screen Position](#)

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Adjusting the Screen Focus



Turn the focus lever to adjust the focus.



Related Topic

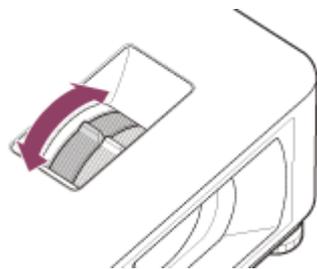
- [Parts and Controls \(Main Unit\)](#)

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Adjusting the Screen Size



Turn the zoom lever to adjust the size.



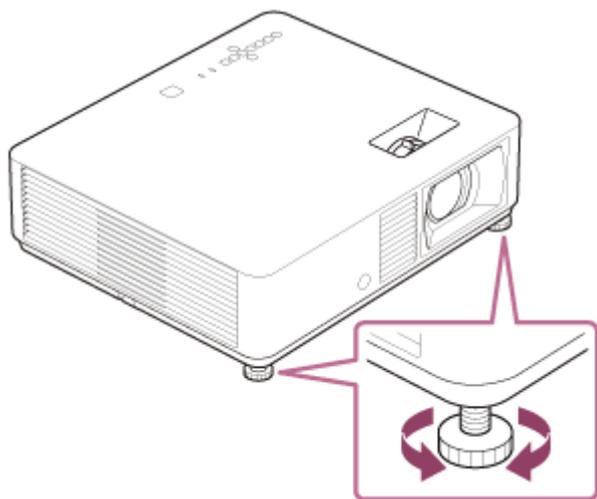
Related Topic

- [Parts and Controls \(Main Unit\)](#)

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Adjusting the Screen Position

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 \(Main Unit\)](#)

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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](#)

Correcting a Vertical Trapezoid

If the screen is trapezoidal, perform a keystone correction.

1 Press the KEYSTONE key on the Remote Commander once.

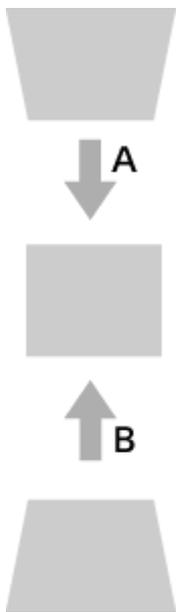
The adjustment menu will be displayed.

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.
- If you press the KEYSTONE key on the Remote Commander and switched between keystone correction and corner keystone correction, the adjustment menu value and the screen state may not match until the adjustment begins.

Related Topic

- [Parts and Controls \(Remote Commander and Control Panel\)](#)
- [Menu Operation: V Keystone](#)

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.
- If you press the KEYSTONE key on the Remote Commander and switched between keystone correction and corner keystone correction, the adjustment menu value and the screen state may not match until the adjustment begins.

Related Topic

- [Parts and Controls \(Remote Commander and Control Panel\)](#)
- [Menu Operation: H Keystone](#)

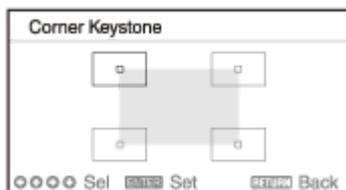
Correcting Screen Distortion

You can correct image distortion using the corner keystone function.

- 1 Press the **KEYSTONE** key on the Remote Commander three times.

The guide will be displayed.

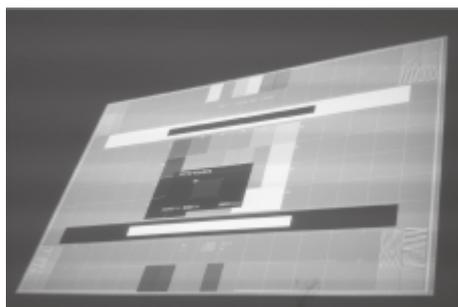
You can also display the guide menu from [Corner Keystone] - [Adjust] in the  [Installation] menu.



- 2 Select the corner you wish to correct using the  /  /  /  (Up/Down/Left/Right) keys.

- 3 Press the **ENTER** key.

The selected corner becomes a cursor display ().



Cursor display example:



Adjustable in all directions



Only adjustable horizontally or downward.

4 Adjust the corner position with the  /  /  /  (Up/Down/Left/Right) keys.

When a distortion adjustment reaches the limit, the cursor will disappear.

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

Related Topic

- [Parts and Controls \(Remote Commander and Control Panel\)](#)
- [Menu Operation: Corner Keystone](#)

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Data Projector
VPL-CWZ10/CXZ10

Displaying Patterns

Pressing the PATTERN key on the Remote Commander allows you to display the ruled line pattern, lattice pattern, or adjustment 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 and lattice 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 color for the lines of the ruled line pattern and lattice 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 \(Remote Commander and Control Panel\)](#)

Data Projector
VPL-CWZ10/CXZ10

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

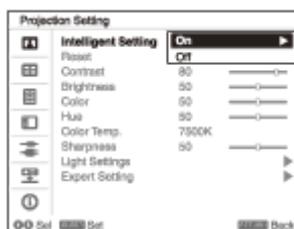
- [Parts and Controls \(Remote Commander and Control Panel\)](#)
- [Menu Operation: Adjust Signal](#)
- [Menu Operation: Smart APA](#)

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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 Press the **D ZOOM +** key to enlarge an image.
- 3 Adjust the image position with the **▲ / ▼ / ◀ / ▶** (Up/Down/Left/Right) keys.
- 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 \(Remote Commander and Control Panel\)](#)

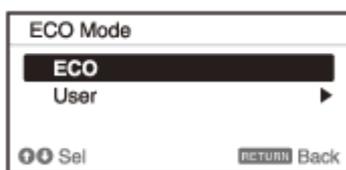
Using Eco Mode

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

Note

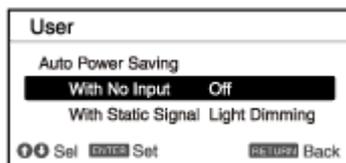
- If [ECO Mode] is set to [ECO] or if [Standby Mode] for [User] is set to [Low], you will no longer be able to use network control functions while in Standby Mode. If performing external control via networks and network control functions and so on, either do not select [ECO] or do not set [Standby Mode]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

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.

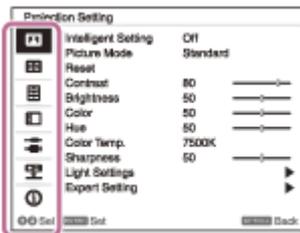
Note

- 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.

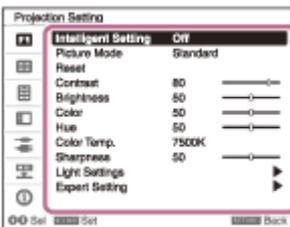
The menu screen will be displayed.

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.

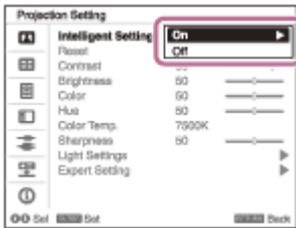
If a further tier is displayed, select the item you wish to configure in accordance with Step 3, then press the ENTER key to confirm the configuration.

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.

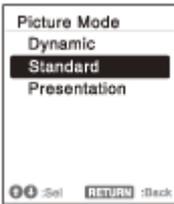
Press the ENTER key to confirm the settings, and return to the previous screen.



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-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

[Presentation]

Bright image quality suitable for presentations.

Note

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

Related Topic

- [Menu Operation: Intelligent Setting](#)

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Reset

Return the image quality settings to their default values.

- 1 Press the **MENU** key.
- 2 Select  **[Projection Setting]** - **[Reset]**.

Note

- The **[Intelligent Setting]** and **[Picture Mode]** values in the  **[Projection Setting]** menu will not return to default.

Related Topic

- [Menu Operation: Intelligent Setting](#)
- [Menu Operation: Picture Mode](#)

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

Data Projector
VPL-CWZ10/CXZ10

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

[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.

Data Projector
VPL-CWZ10/CXZ10

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

VPL-CWZ10

- For Computer 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 1]: Maintain the aspect ratio and project onto the entire screen.
 - [Full 2]: Project onto the entire screen.
 - [Full 3]: Maintain the aspect ratio and project fully either vertically or horizontally in a resolution no higher than 1280 × 720.
 - [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.

VPL-CXZ10

- For Computer 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 1]: Maintain the aspect ratio and 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.
 - [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

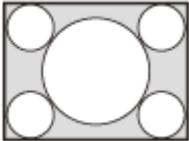
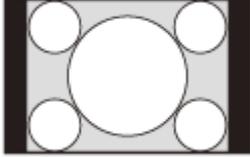
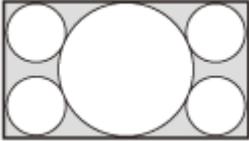
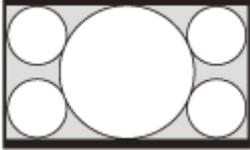
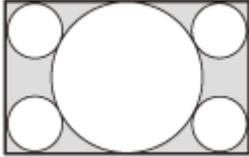
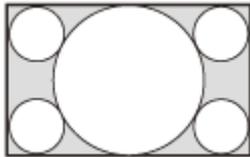
- [Aspect Ratio](#)

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Aspect Ratio

VPL-CWZ10

Computer Signal

Input signal	Image projected using recommended setting values
4:3 	[Full 1] *1 *2 *3 
16:9 	[Full 1] *1 *2 *3 
16:10 	[Full 1] *3 

*1 Selecting [Normal] will project the image with the image signal resolution as-is without enlargement processing.



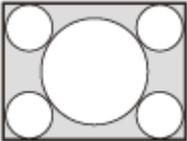
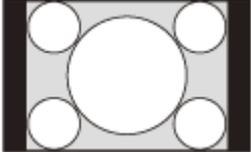
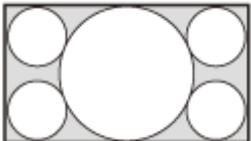
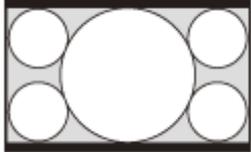
*2 Selecting [Full 2] will project the image onto the entire screen with the aspect ratio ignored.



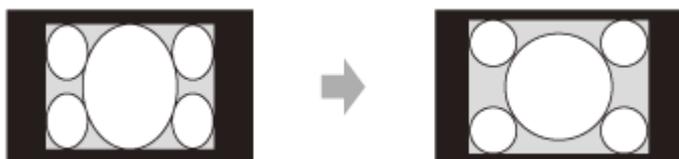
*3 When the screen display position is adjusted for a 16:9 signal, inputting a 4:3 signal may result in the image not fitting on the screen vertically. If this occurs, select [Full 3].



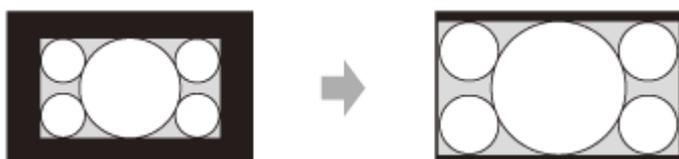
Video Signal

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

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

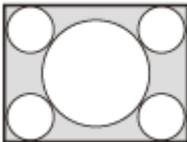
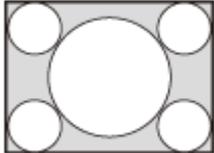


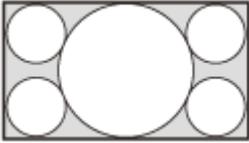
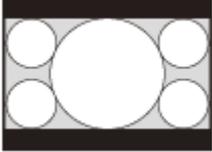
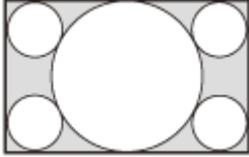
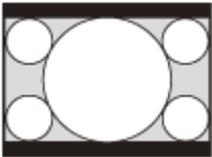
*2 Depending on the input signal, images may be displayed as follows. In this case, select [Zoom].



VPL-CXZ10

Computer Signal

Input signal	Image projected using recommended setting values
4:3 	[Full 1] ^{*1} 

Input signal	Image projected using recommended setting values
16:9 	[Full 1] *1 *2 
16:10 	[Full 1] *1 *2 

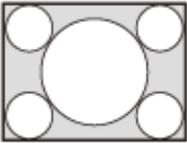
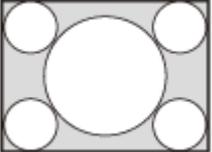
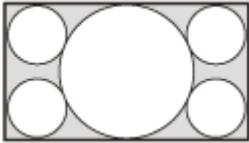
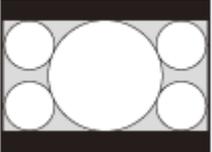
*1 Selecting [Normal] will project the image with the image signal resolution as-is without enlargement processing.



*2 Selecting [4:3] 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} 
16:9 	[16:9] ^{*2} 

*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].



Related Topic

- [Menu Operation: Aspect](#)

Data Projector
VPL-CWZ10/CXZ10

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 computer input 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](#)

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Presentation timer

Set a timer for presentations.

- 1 Press the **MENU** key.
- 2 Select  **[Function] - [Presentation timer] - The desired setting.**

Settings

[Timer Set/Start]

Set a projection duration timer. Press the ENTER key to start the timer.

[Size]

[Fixed Small]/[Fixed Large]/[Auto]: Select the timer text size. If **[Auto]** is selected, the timer text will be displayed larger for 3 seconds by the minute. This is convenient for alerting the presenter to how much time has elapsed.

[Position]

[Bottom Right]/[Bottom Left]/[Top Right]: Select the timer display position.

[Count UP/Down]

[Up]/[Down]: Select whether to count up toward the set time or count down.

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

Data Projector
VPL-CWZ10/CXZ10

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

- [Selecting the Menu Language](#)

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Status

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

- 1 Press the **MENU** key.
- 2 Select  **[Operation] - [Status] - [On] or [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.

Data Projector
VPL-CWZ10/CXZ10

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  (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-CWZ10/CXZ10

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-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

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 to [Manual] once and selecting [Apply].

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Communication Mode

Configure the communication mode.

- 1 Press the MENU key.
- 2 Select  [Connection/Power] - [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-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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](#)

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] - [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](#)

Menu Operation: Standby Mode

Set the power consumption during Standby Mode.

- 1 Press the MENU key.
- 2 Select  [Connection/Power] - [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-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Screen Fitting

Select the image distortion correction method.

1 Press the **MENU** key.

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

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

Related Topic

- [Menu Operation: V Keystone](#)
- [Menu Operation: H Keystone](#)
- [Menu Operation: Corner Keystone](#)

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Menu Operation: Corner Keystone

Corrects distortion of the image.

This is displayed when [Corner Keystone] is selected for [Screen Fitting] in the  [Installation] menu.

- 1 Press the MENU key.
- 2 Select  [Installation] - [Corner Keystone] - [Adjust].
- 3 Select the corner you wish to correct using the  /  /  /  (Up/Down/Left/Right) keys and press the ENTER key.
- 4 Adjust the corner position with the  /  /  /  (Up/Down/Left/Right) keys.

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

Note

- Because keystone 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-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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] - [On] or [Off].

If using the projector in a high-altitude location (1,500 m or more above sea level), set to [On].

Note

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

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 **i** [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.

Note

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

Data Projector
VPL-CWZ10/CXZ10

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, 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 Internet Explorer (version 11 or later), 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](#)

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-CWZ10/CXZ10

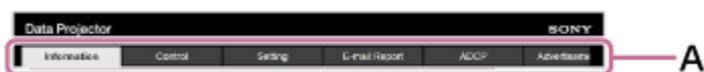
Operating the Control Panel

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.

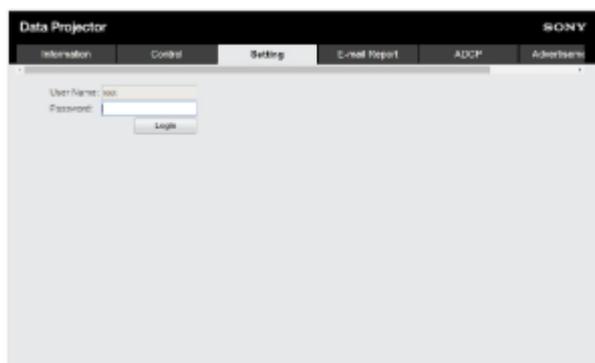
When the tab of the target page is not displayed, scroll the bar under the tab to display it.



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.

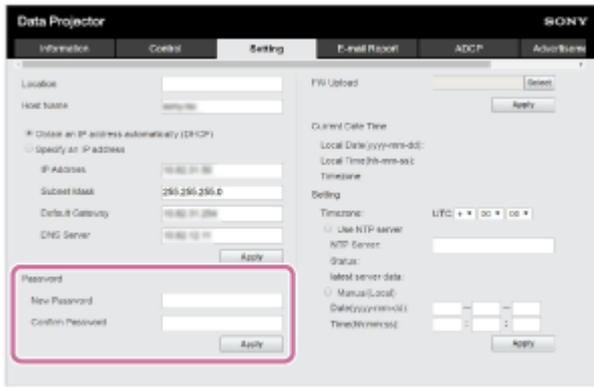


When accessing the [Setting] page for the first time, enter the password "Projector." The administrator name is fixed to "root."

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.

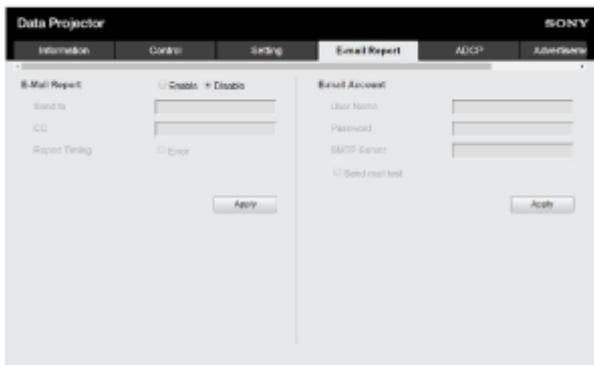
Using the E-mail Report Function

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: ‘ “ \ & < >

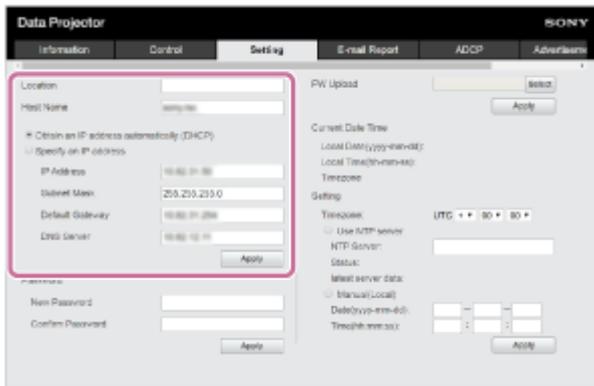
Configuring the Network Settings of the Projector

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](#)

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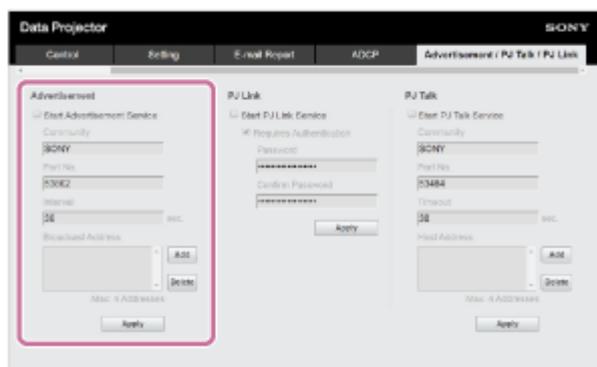
Setting Advertisement

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

Note

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

- 1 Click the [Advertisement / PJ Talk / PJ Link] tab and display the [Advertisement / PJ Talk / PJ Link] 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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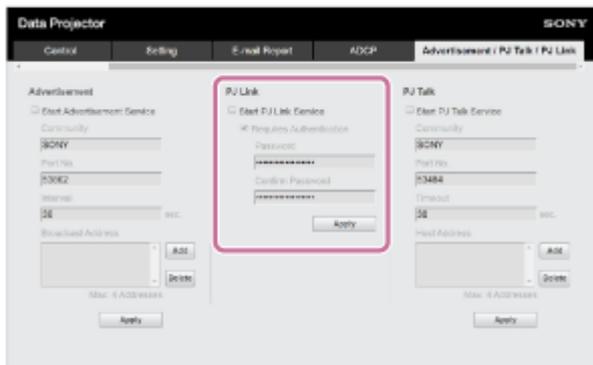
Setting PJ Link

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

Note

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

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

Data Projector
VPL-CWZ10/CXZ10

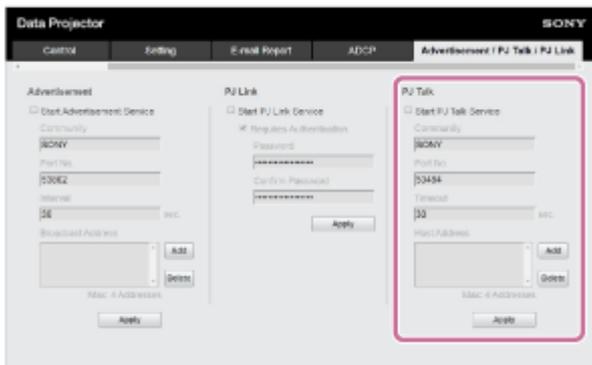
Setting PJ Talk

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

Note

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

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

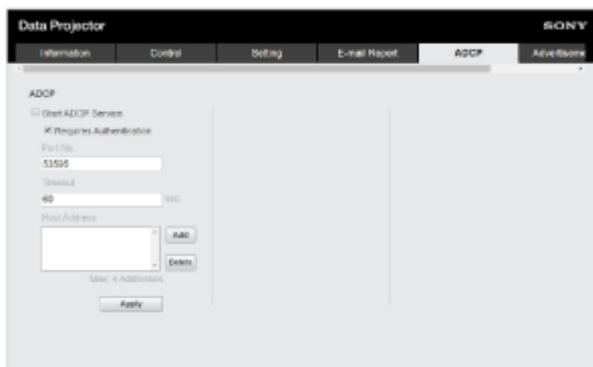
Setting ADCP

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.

Data Projector
VPL-CWZ10/CXZ10

Setting AMX DDDP/Crestron Room View

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.

[Crestron Control]

[Start Crestron Service]: Turn the Crestron Control function on or off. For details, refer to the Crestron Corporation product catalog and so on.

- [IP Address]: Enter the Crestron system server.
- [IP ID]: Enter the CIP protocol IP ID.
- [Port No.]: Enter the CIP protocol server port number.

Data Projector
VPL-CWZ10/CXZ10

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.



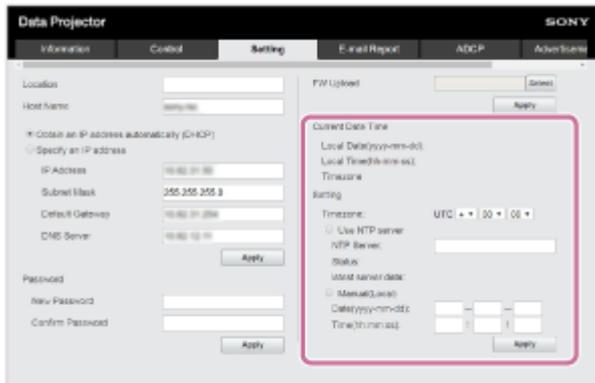
- 2 Click [Reset].

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.

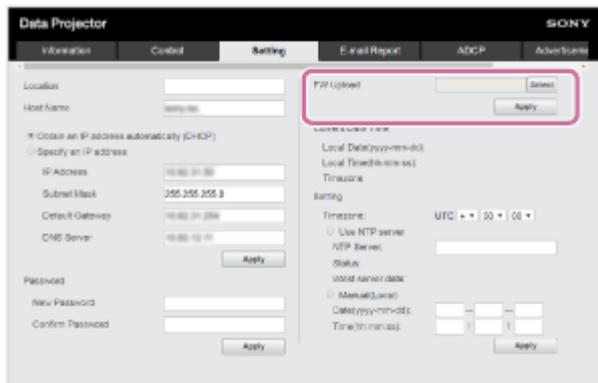
Using the Software Update Function

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

Note

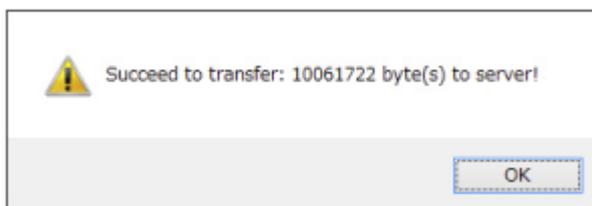
- The projector software can be updated via a network only when the projector is in Standby Mode.

- 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.



- 3 Click [OK].

An update confirmation message will be displayed.



- 4 Click [OK].

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

Related Topic

- [Updating Software](#)

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Data Projector
VPL-CWZ10/CXZ10

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).

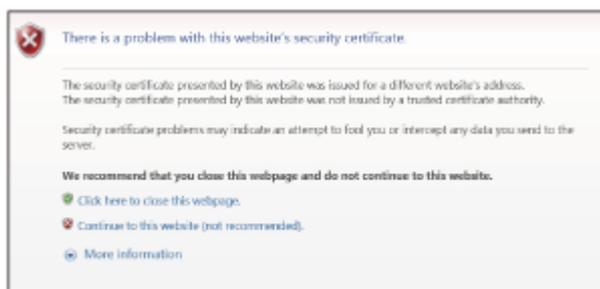
The installed certificate will be displayed in [Certificate information].

- [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 Internet Explorer (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](#)

Data Projector
VPL-CWZ10/CXZ10

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] - [Communication Mode] - [http] to change the communication mode.

Related Topic

- [Configuring https Communication](#)

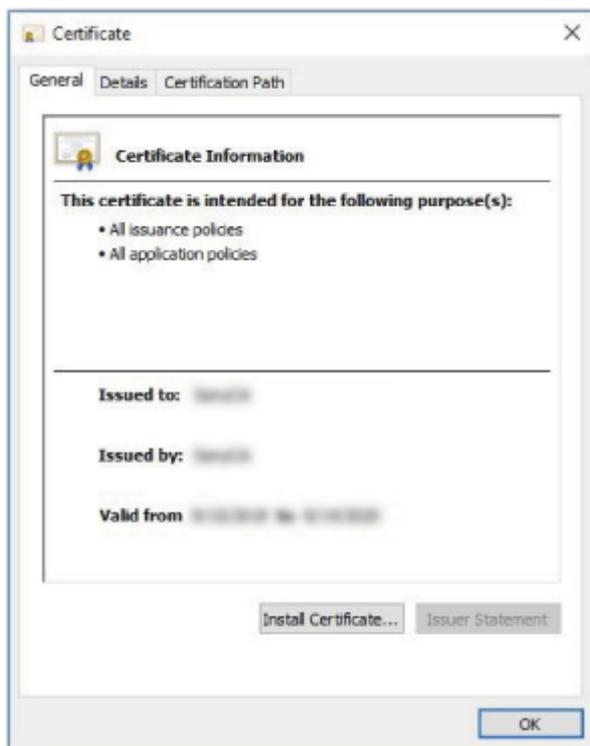
Data Projector
VPL-CWZ10/CXZ10

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 (Internet Explorer) 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.)

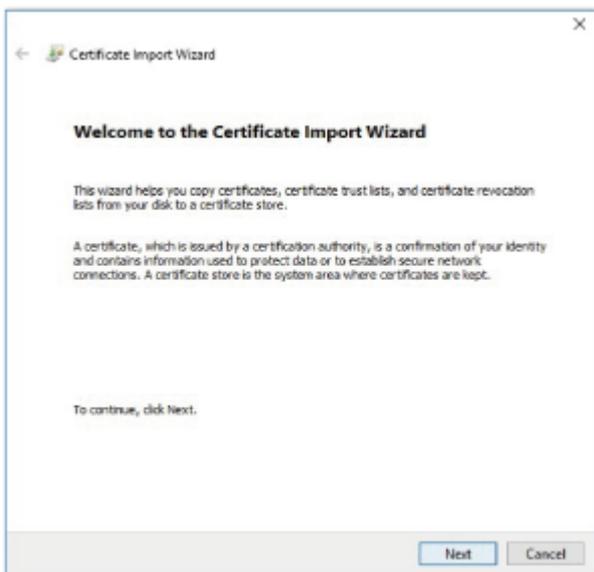
1 Save the signed CA certificate that is to be installed to the projector to your computer.

The standard certificate file extension is “.cer.” Double-click this file to display the certificate dialog.

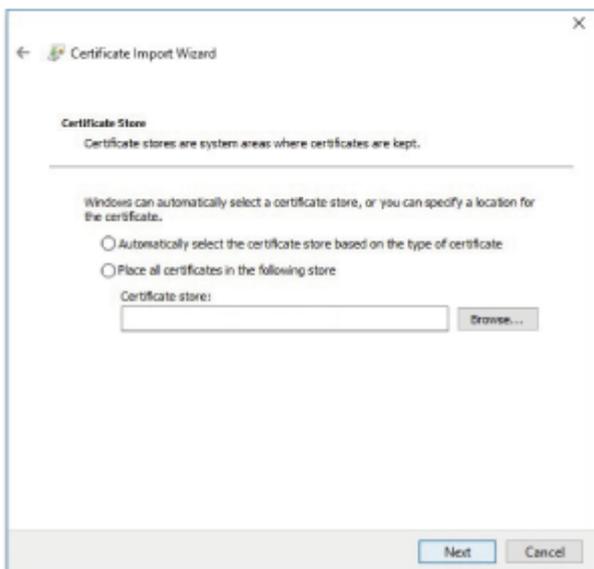


2 Click [Install Certificate].

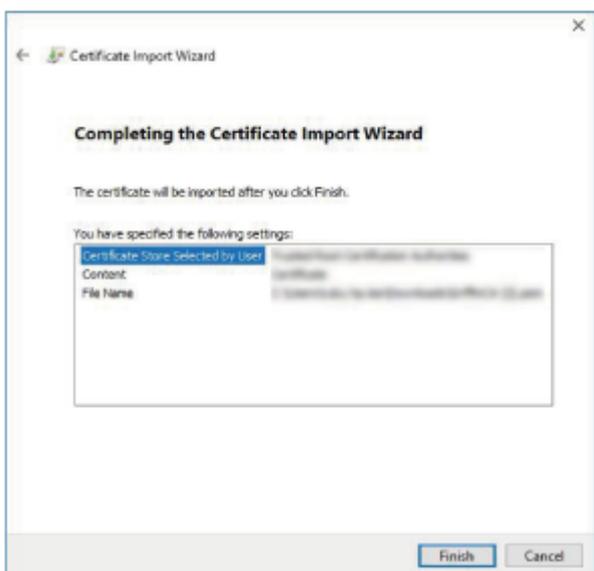
[Welcome to the Certificate Import Wizard] will be displayed.



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.

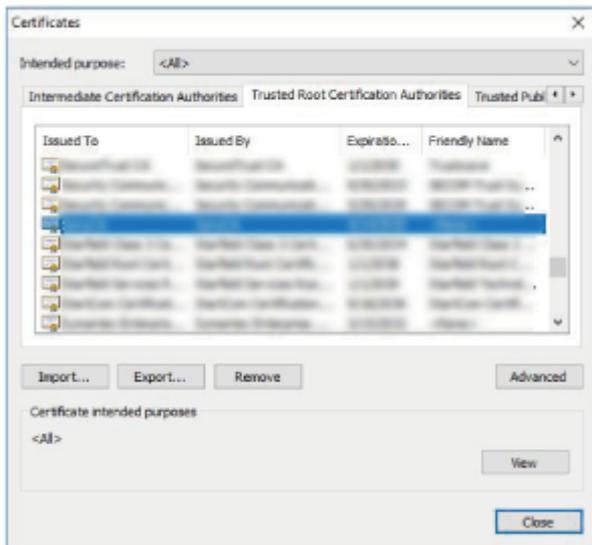
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Deleting a CA Certificate Installed to Your Computer

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

- 1 On Internet Explorer, select [Internet Options] from the [Tools] menu, select the [Contents] tab and [Certificate], then display the [Certificate] dialog.

Example of the screen when the OS is set to English



- 2 Select the certificate you wish to delete.

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

- 3 Click [Remove].

The [Delete certificate?] confirmation dialog will appear.

- 4 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.

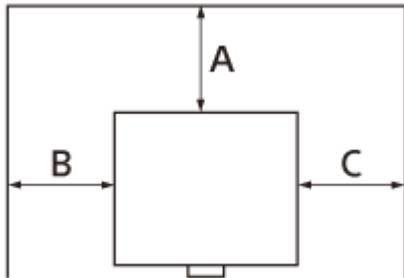
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Data Projector
VPL-CWZ10/CXZ10

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)

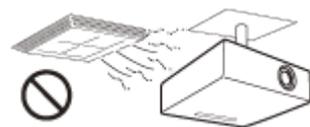
- Avoid using if the projector is tilted more than 15 degrees horizontally.



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



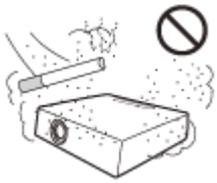
- Avoid installing the projector in a location subject to direct cool or warm air from an air-conditioner. Installing in such a location may cause malfunction of the projector due to moisture condensation or rise in temperature.



- 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 projector at an altitude of 1,500 m or higher, set [High Altitude Mode] in  [Installation] menu to [On]. Failing to set this mode when using the projector at high altitudes could have adverse effects, such as reducing the reliability of certain components.

Related Topic

- [Menu Operation: High Altitude Mode](#)

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Data Projector
VPL-CWZ10/CXZ10

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. Never use solvent such as alcohol, benzene or thinner, or acid, alkaline or abrasive detergent, or a chemical cleaning cloth.

Data Projector
VPL-CWZ10/CXZ10

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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Data Projector
VPL-CWZ10/CXZ10

On Heat Dissipation

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

Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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.

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Data Projector
VPL-CWZ10/CXZ10

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.

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Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

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-CWZ10/CXZ10

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. Changing the password regularly is also recommended.
 - 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.
-

Related Topic

- [Operating the Control Panel](#)

Data Projector
VPL-CWZ10/CXZ10

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.

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Data Projector
VPL-CWZ10/CXZ10

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-CWZ10/CXZ10

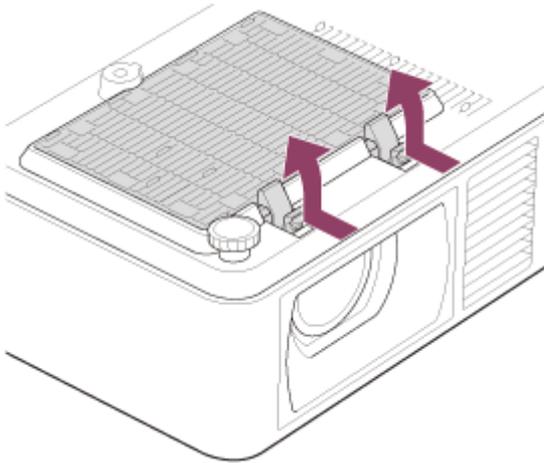
Cleaning the Air Filter

When the message that prompts cleaning the air filter appears, clean the air filter. If the dust cannot be removed from the air filter even after cleaning, replace the air filter with a new one. For details on a new air filter, consult with qualified Sony personnel.

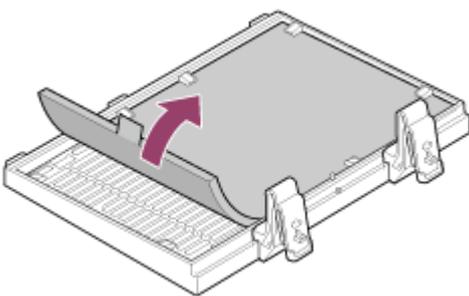
Caution

If you continue to use the projector even after the message is displayed, dust may accumulate, clogging it. As a result, the temperature may rise inside the projector, leading to a possible malfunction or fire.

- 1 Turn off the projector and disconnect the AC power cord from a wall outlet.
- 2 To remove the air filter cover, lift it up while pressing the two levers.



- 3 Remove the air filter from the air filter cover.



- 4 Clean the air filter with a vacuum cleaner.
- 5 Put the air filter back in the air filter cover, then attach the air filter cover to the unit.

Note

- If you remove the air filter cover while the power is turned on, you may accidentally touch the fan inside the projector, which may cause injury.
- Pull the air filter pull stick upwards when removing the air filter from the air filter cover. When attaching the air filter to the air filter cover, make sure the correct side is being attached so that the pull stick is protruding from the air filter.

- 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, malfunction may occur.

Related Topic

- [Message List](#)

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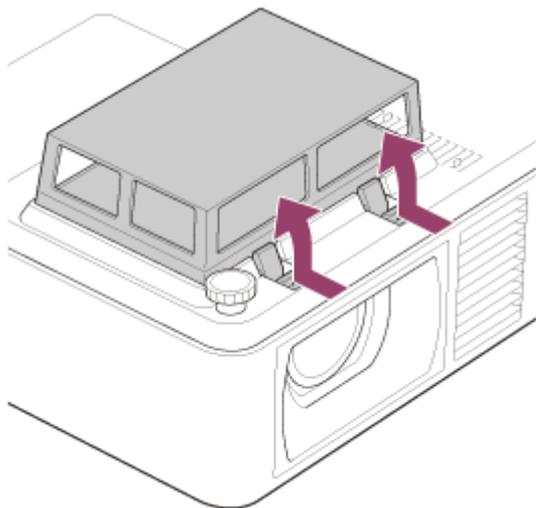
Cleaning the Air Filter (For Installing to the Ceiling) (For the Customers in India only)

When the message that prompts cleaning the air filter appears, clean the air filter. If the dust cannot be removed from the air filter even after cleaning, replace the air filter with a new one. For details on a new air filter, consult with qualified Sony personnel.

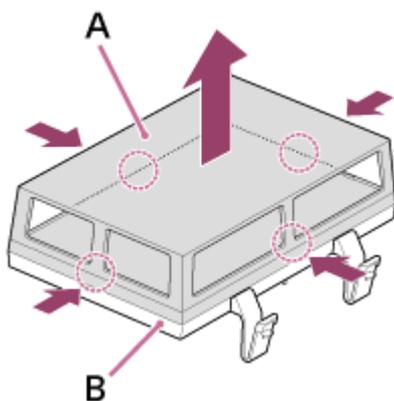
Caution

If you continue to use the projector even after the message is displayed, dust may accumulate, clogging it. As a result, the temperature may rise inside the projector, leading to a possible malfunction or fire.

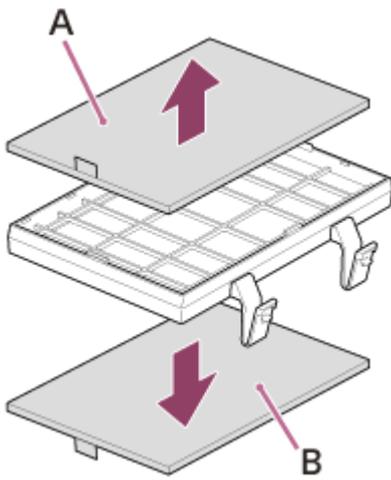
- 1 Turn off the projector and disconnect the AC power cord from a wall outlet.
- 2 Remove the dust cover assembly by pressing the two levers and lifting it up.



- 3 Push all four sides of the dust cover to loosen the hook, and then remove the dust cover (A) from the filter frame (B).



- 4 Remove the air filters (A) and (B) from the filter frame.



5 Clean the air filters with a vacuum cleaner.

6 Put the air filters and dust cover back into the dust cover assembly, and then attach the dust cover assembly to the unit.

Note

- If you remove the dust cover assembly while the power is turned on, you may accidentally touch the fan inside the projector, which may cause injury.
- Properly attach air filters (A) and (B) to the filter frame, making sure they do not overlap with the hooks on the filter frame.
- Securely attach the dust cover to the filter frame, then attach the dust cover assembly to the unit. Incorrect attachment of the dust cover assembly may cause a malfunction.
- Do not use the unit on the floor when the dust cover is removed from the dust cover assembly. Malfunction may occur.

Related Topic

- [Message List](#)

Data Projector
VPL-CWZ10/CXZ10

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](#)

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Data Projector
VPL-CWZ10/CXZ10

Specifications

Optical System

Projection System

3 LCD system

Display Device

Effective Display Size

VPL-CWZ10: 0.64 in (16.3 mm) × 3, 16:10 Aspect Ratio

VPL-CXZ10: 0.63 in (16.0 mm) × 3, 4:3 Aspect Ratio

Effective Pixels

VPL-CWZ10: 3,072,000 pixels (1,280 × 800 pixels × 3)

VPL-CXZ10: 2,359,296 pixels (1,024 × 768 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)

5,000 lm ([Light Output Mode]: [Standard])

Electric System

Speaker

16 W × 1 (Monaural)

Supported Scan Frequency^{*1}

Horizontal: 15 kHz - 92 kHz, Vertical: 48 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

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

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

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

VPL-CWZ10: 100 V to 240 V AC, 3.4 A – 1.5 A, 50/60 Hz

VPL-CXZ10: 100 V to 240 V AC, 3.4 A – 1.5 A, 50/60 Hz

Power Consumption

AC 100 V to 120 V

VPL-CWZ10: 342 W

VPL-CXZ10: 342 W

AC 220 V to 240 V

VPL-CWZ10: 326 W

VPL-CXZ10: 326 W

Standby Power Consumption (Standby Mode)

AC 100 V to 120 V

0.5 W (When setting [Standby Mode] to [Low])

AC 220 V to 240 V

0.5 W (When setting [Standby Mode] to [Low])

Standby Power Consumption (Network Standby Mode)

AC 100 V to 120 V

2.0 W (When setting [Standby Mode] to [Low] and [Remote Start] to [On])

15.0 W (If all network ports are connected) (When setting [Standby Mode] to [Standard])

AC 220 V to 240 V

2.0 W (When setting [Standby Mode] to [Low] and [Remote Start] to [On])

15.0 W (If all network ports are connected) (When setting [Standby Mode] to [Standard])

Heat Dissipation

AC 100 V to 120 V

VPL-CWZ10: 1,167 BTU/h

VPL-CXZ10: 1,167 BTU/h

AC 220 V to 240 V

VPL-CWZ10: 1,112 BTU/h

VPL-CXZ10: 1,112 BTU/h

Standard Dimensions (W/H/D)

Approx. 371 mm × 117 mm × 319.3 mm (14 19/32 in × 4 19/32 in × 12 9/16 in)

Approx. 371 mm × 100 mm × 319.3 mm (14 19/32 in × 3 15/16 in × 12 9/16 in) (Without projecting parts)

Mass

Approx. 5.7 kg (13 lb)

Supplied Accessories

Remote Commander (RM-PJ8) (1)

Lithium battery (CR2025) (1)

AC power cord (1)

Mini D-sub 15-pin cable (1.8 m) (1) (1-970-584-11/Sony)

Air filter cover (1)^{*1}

Dust cover assembly (1)^{*1}

Setup Guide (1)

^{*1} For the customers in India only

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

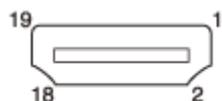
Related Topic

- [Compatible Signal List \(Computer Signal\)](#)
- [Compatible Signal List \(Video Signal\)](#)

Data Projector
VPL-CWZ10/CXZ10

Pin Assignment (HDMI Terminal)

HDMI Terminal (HDMI, Female)

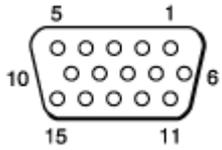


Pin Number	Function
1	T.M.D.S. Data2 +
2	T.M.D.S. Data2 Shield
3	T.M.D.S. Data2 -
4	T.M.D.S. Data1 +
5	T.M.D.S. Data1 Shield
6	T.M.D.S. Data1 -
7	T.M.D.S. Data0 +
8	T.M.D.S. Data0 Shield
9	T.M.D.S. Data0 -
10	T.M.D.S. Clock +
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock -
13	N.C.
14	RESERVED (N.C.)
15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

Data Projector
VPL-CWZ10/CXZ10

Pin Assignment (RGB Input Terminal)

RGB Input Terminal (Mini D-sub 15 pin, Female)

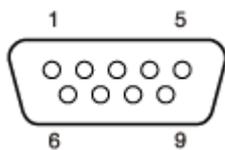


Pin Number	Function
1	Image Input (Red) R
2	Image Input (Green) G
3	Image Input (Blue) B
4	Ground
5	RESERVE
6	Ground (For red)
7	Ground (For green)
8	Ground (For blue)
9	Power input for DDC
10	Ground
11	Ground
12	DDC/SDA
13	Horizontal synchronization signal
14	Vertical synchronization signal
15	DDC/SCL

Data Projector
VPL-CWZ10/CXZ10

Pin Assignment (RS-232C Terminal)

RS-232C Terminal (D-Sub 9 pin, Male)

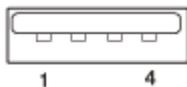


Pin Number	Function
1	NC
2	RXDA
3	TXDA
4	DTR
5	GND
6	NC
7	RTS
8	CTS
9	NC

Data Projector
VPL-CWZ10/CXZ10

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

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.

Resolution	fH[kHz]/fV[Hz]	INPUT A	INPUT B / INPUT C
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
1152 x 900	61.8/66	Compatible	Not compatible
1280 x 960	60.0/60	Not compatible	Compatible

Resolution	fH[kHz]/fV[Hz]	INPUT A	INPUT B / INPUT C
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	Not 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	Not compatible	Compatible ^{*2}
1366 x 768	47.7/60	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 720/60p VESA Reduced Blanking signals are compatible.

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.

Signal Name	fV[Hz]	VIDEO IN	INPUT A *1	INPUT B / INPUT C
NTSC	60	Compatible	Not compatible	Not compatible
PAL/SECAM	50	Compatible	Not compatible	Not compatible
480i	60	Not compatible	Compatible	Compatible
576i	50	Not compatible	Compatible	Compatible
480p	60	Not compatible	Compatible	Compatible
576p	50	Not compatible	Compatible	Compatible
1080i	60	Not compatible	Compatible	Compatible
1080i	50	Not compatible	Compatible	Compatible
720p	60	Not compatible	Compatible	Compatible
720p	50	Not compatible	Compatible	Compatible
1080p	60	Not compatible	Not compatible	Compatible
1080p	50	Not compatible	Not compatible	Compatible
1080p	24	Not compatible	Not compatible	Compatible

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

Data Projector
VPL-CWZ10/CXZ10

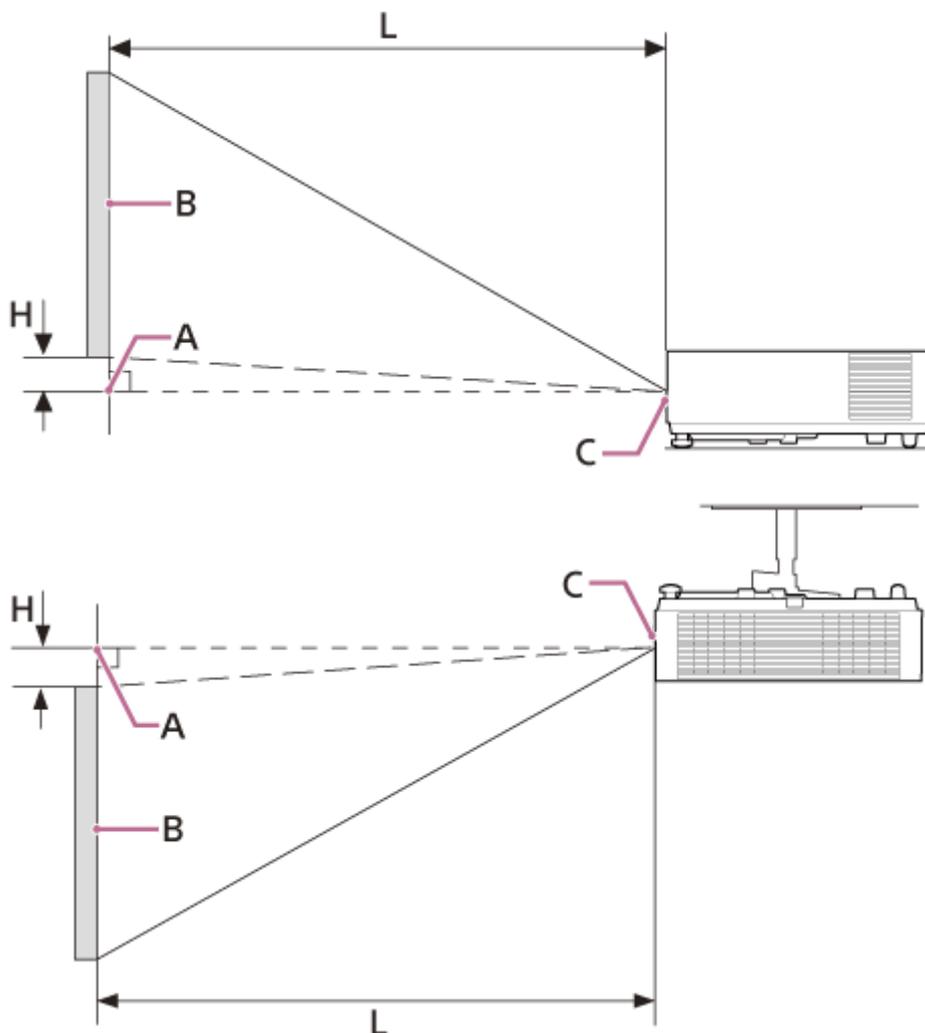
Projection Distance

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 \(VPL-CWZ10\)](#)
- [Projection Distance/Projection Distance Formula \(VPL-CXZ10\)](#)

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Data Projector
VPL-CWZ10/CXZ10

Projection Distance/Projection Distance Formula (VPL-CWZ10)

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: 2.22 m - 3.56 m (87 in - 140 in)
- Projection Screen Height Position H: -0.14 m (-5 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: 2.78 m - 4.45 m (109 in - 175 in)
- Projection Screen Height Position H: -0.17 m (-7 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: 3.33 m - 5.34 m (131 in - 210 in)
- Projection screen height position H: -0.21 m (-8 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: 4.17 m - 6.68 m (164 in - 263 in)
- Projection screen height position H: -0.26 m (-10 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: 5.57 m - 8.91 m (219 in - 351 in)
- Projection screen height position H: -0.35 m (-14 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): $L = 0.027909 \times D - 0.0142$ ($L = 1.100000 \times D - 1.0000$)
- Projection Distance L (Maximum): $L = 0.044591 \times D - 0.00882$ ($L = 1.759091 \times D - 0.88182$)

Formula 2 (Unit: m (in))

- Projection Screen Height Position H: $H = -0.00174 \times D$ ($H = -0.06817 \times D$)

Related Topic

- [Projection Distance](#)

Data Projector
VPL-CWZ10/CXZ10

Projection Distance/Projection Distance Formula (VPL-CXZ10)

Projection Distance

80-inch screen size (2.03 m) (Horizontal: 1.63 m × Vertical: 1.22 m) (Width 64 in × Height 48 in)

- Projection Distance L: 2.28 m - 3.67 m (90 in - 145 in)
- Projection Screen Height Position H: -0.20 m (-8 in)

100-inch screen size (2.54 m) (Horizontal: 2.03 m × Vertical: 1.52 m) (Width 80 in × Height 60 in)

- Projection Distance L: 2.86 m - 4.61 m (113 in - 181 in)
- Projection Screen Height Position H: -0.25 m (-10 in)

120-inch screen size (3.05 m) (Horizontal: 2.44 m × Vertical: 1.83 m) (Width 96 in × Height 72 in)

- Projection Distance L: 3.45 m - 5.54 m (136 in - 218 in)
- Projection Screen Height Position H: -0.30 m (-12 in)

150-inch screen size (3.81 m) (Horizontal: 3.05 m × Vertical: 2.29 m) (Width 120 in × Height 90 in)

- Projection Distance L: 4.31 m - 6.94 m (170 in - 273 in)
- Projection Screen Height Position H: -0.38 m (-15 in)

200-inch screen size (5.08 m) (Horizontal: 4.06 m × Vertical: 3.05 m) (Width 160 in × Height 120 in)

- Projection Distance L: 5.76 m - 9.26 m (227 in - 364 in)
- Projection Screen Height Position H: -0.51 m (-20 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): $L = 0.028989 \times D - 0.036523$ ($L = 1.140909 \times D - 1.118182$)
- Projection Distance L (Maximum): $L = 0.046568 \times D - 0.049864$ ($L = 1.827273 \times D - 1.345455$)

Formula 2 (Unit: m (in))

- Projection Screen Height Position H: $H = -0.00253 \times D$ ($H = -0.10000 \times D$)

Related Topic

- [Projection Distance](#)

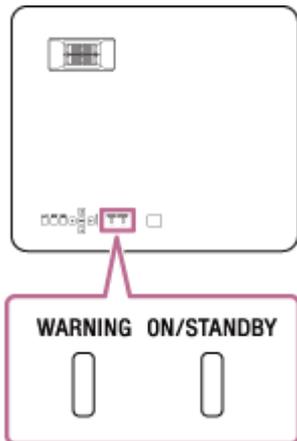
Data Projector
VPL-CWZ10/CXZ10

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

WARNING ON/STANDBY



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

WARNING ON/STANDBY



Warm-up state

The projector is warming up after it is turned on.

WARNING: Off, ON/STANDBY: Lights in green

WARNING ON/STANDBY



Power on state

The projector is ready for projection.

WARNING: Off, ON/STANDBY: Lights in orange

WARNING ON/STANDBY



Other standby state

State in which no signal is set (light off).

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 Air Filter](#)

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. Projector temperature is high. The light will turn off in 1 minute.	An increase in the inner projector temperature has been detected. Take the following measures. <ul style="list-style-type: none"> ● 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. ● Check the projector's ambient temperature and use it within a temperature range in which it is operable. ● The projector's High Altitude Mode is turned [On]. Configure the setting in accordance with your usage environment.
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 Air Filter](#)
- [Compatible Signal List \(Computer Signal\)](#)
- [Compatible Signal List \(Video Signal\)](#)

Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Cannot Connect to Computer

- Check the network settings.
-

Related Topic

- [Menu Operation: Network Setting](#)

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Data Projector
VPL-CWZ10/CXZ10

No On-screen Display

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

Related Topic

- [Menu Operation: Status](#)

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Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Screen Distortion

- The corner keystone setting is active. Deactivate [Corner Keystone] in the  [Installation] menu.
-
-

Related Topic

- [Correcting Screen Distortion](#)

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Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Screen Noise

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

Related Topic

- [Precautions When Connecting](#)

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Data Projector
VPL-CWZ10/CXZ10

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](#)

Data Projector
VPL-CWZ10/CXZ10

Remote Commander Does Not Function

- Confirm that the batteries are inserted correctly.
 - Confirm that the batteries are not depleted.
-
-

Related Topic

- [Inserting the Battery into the Remote Commander](#)

Data Projector
VPL-CWZ10/CXZ10

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  [Installation] menu to [On]).
 - 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 Air Filter](#)
- [On Installation](#)

Data Projector
VPL-CWZ10/CXZ10

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<http://oss.sony.net/Products/Linux>

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Version 2, June 1991

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Author : Doug Currie <doug.currie@alum.mit.edu>

Library : Isqlite3 - an SQLite 3 database binding for Lua 5

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/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>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto: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>](mailto: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.
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- 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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Data Projector
VPL-CWZ10/CXZ10

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