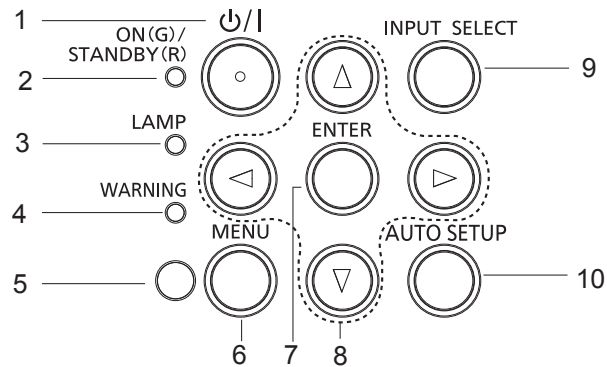


**Attention**

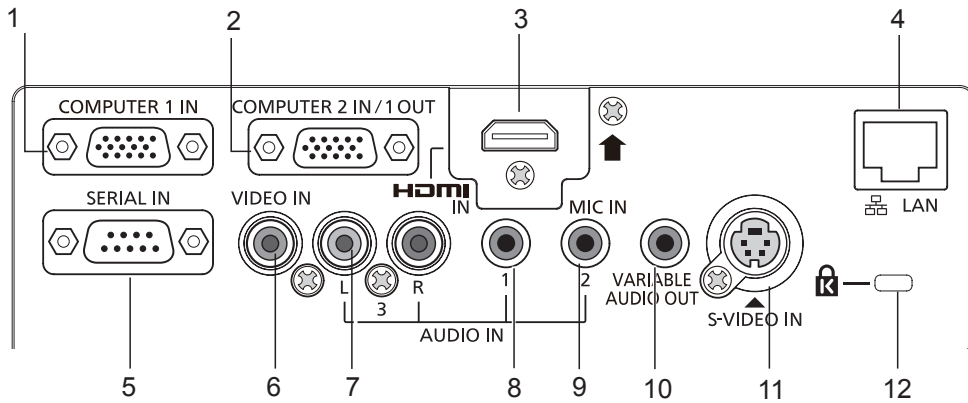
- Do not block the ventilation ports (intake and exhaust) of the projector.

■ **Control panel and Indicators**



- 1 Power <⏻/⏹> button**  
Turns the projector on/off.  
(⏻ standby / ⏹ power on)
- 2 Power indicator <ON(G)/STANDBY(R)>**  
Displays the status of the power.
- 3 Lamp indicator <LAMP>**  
Displays the status of the lamp.
- 4 Warning indicator <WARNING>**  
Indicates the abnormal conditions of the projector.
- 5 Ambient Luminance sensor**  
Detects room's light and select proper image quality.
- 6 <MENU> button**  
Displays the menu screen. (➔ page 47)
- 7 <ENTER> button**  
Determines and executes an item in the menu screen.
- 8 ▲▼◀▶ buttons**  
Navigate the MENU screen.  
Adjust the volume level (◀▶).
- 9 <INPUT SELECT> button**  
Select the input signal for projection.  
(➔ page 40)
- 10 <AUTO SETUP> button**  
Executes the auto setup function.

■ Connecting terminals



- |  |   |
|--|---|
| <p><b>1 &lt;COMPUTER 1 IN&gt; terminal</b><br/>This is the terminal to input RGB or <math>Y C_B C_R / Y P_B P_R</math> signals.</p> <p><b>2 &lt;COMPUTER 2 IN / 1 OUT&gt; terminal</b><br/>This is the terminal to input RGB signals. Or output the RGB or <math>Y C_B C_R / Y P_B P_R</math> signals to external monitor.</p> <p><b>3 &lt;HDMI IN&gt; terminal</b><br/>This is the terminal to input HDMI signals.</p> <p><b>4 &lt;LAN&gt; terminal</b><br/>This is the LAN terminal to connect to the network.</p> <p><b>5 &lt;SERIAL IN&gt; terminal</b><br/>This is the RS-232C compatible terminal to externally control the projector by connecting a computer.</p> <p><b>6 &lt;VIDEO IN&gt; terminal</b><br/>This is the terminal to input video signals.</p> | <p><b>7 &lt;AUDIO IN 3 (L/R)&gt; terminal</b><br/>This is the terminal to input audio signals. Left input (L) and right input (R) are provided for the &lt;AUDIO IN 3&gt; terminal.</p> <p><b>8 &lt;AUDIO IN 1&gt; terminal</b><br/>This is the terminal to input audio signals.</p> <p><b>9 &lt;AUDIO IN 2 (MIC IN)&gt; terminal</b><br/>This is the terminal to input audio signals. Or connect the MIC to this terminal.</p> <p><b>10 &lt;VARIABLE AUDIO OUT&gt; terminal</b><br/>This is the terminal to output the input audio signal to the projector.</p> <p><b>11 &lt;S-VIDEO IN&gt; terminal</b><br/>This is the terminal to input s-video signals.</p> <p><b>12 Security slot</b><br/>Attach the commercial shackle lock, manufactured by Kensington, to protect your projector. Compatible with the Kensington MicroSaver Security System.</p> |
|--|---|

**Attention**

- When a LAN cable is directly connected to the projector, the network connection must be made indoors.

# Preparing the remote control

## Inserting and removing batteries

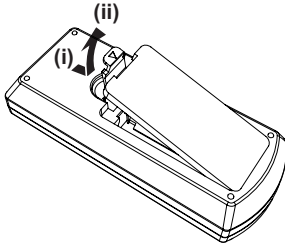


Fig. 1

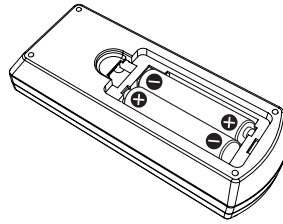


Fig. 2

- 1) **Open the cover. (Fig. 1)**
- 2) **Insert batteries and close the cover. (Insert the  $\ominus$  side first.) (Fig. 2)**

- When removing the batteries, perform the steps in reverse order.

## When using the system with multiple projectors

When you use the system with multiple projectors, you can operate all the projectors simultaneously or each projector individually by using single remote control, if a unique ID number is assigned to each projector.

When you want to set the ID number, at first you need to complete the Initial setting, and then after setting the ID number of the projector, set the ID number on the remote control. About Initial setting, please refer to "When the initial setting screen is displayed" (➔ page 36).

The factory default ID number of the unit (the projector and the remote control) is set to [ALL], you can control with this setting. If necessary, please set the ID number to the remote control and the projector. About how to set the ID number of the remote control, please refer to "Setting the ID number of the remote control" (➔ page 45).

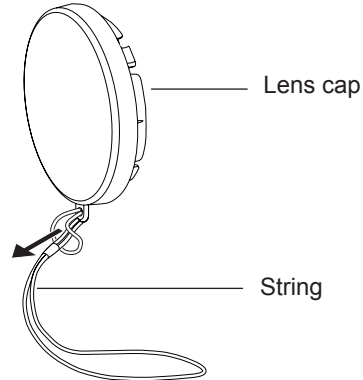
### Note

- Set the ID number of the projector from the [PROJECTOR SETUP] menu → [PROJECTOR ID]. (➔ page 69)

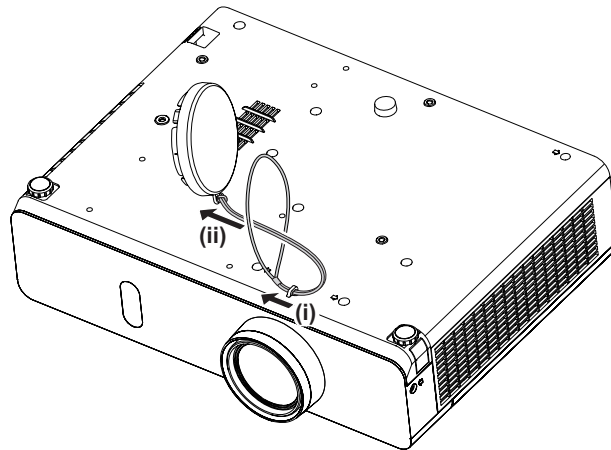
## Attaching the Lens Cap

When moving this projector or while not using it over an extended period of time, attach the lens cap. To prevent loss for the lens cap, please according to the following procedures, attach the lens cap with the string of accessories.

- 1) Thread the thinner end of the string through the hole on the lens cap.



- 2) Thread the other end of the string through the hole on the bottom of the projector.



# Chapter 2 Getting Started

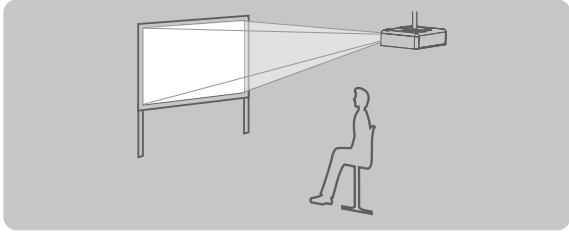
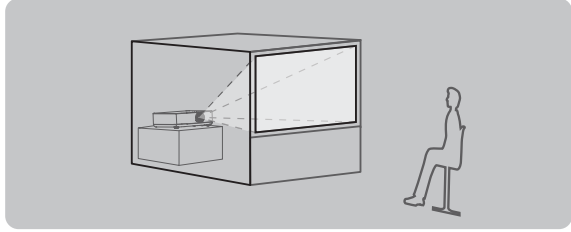
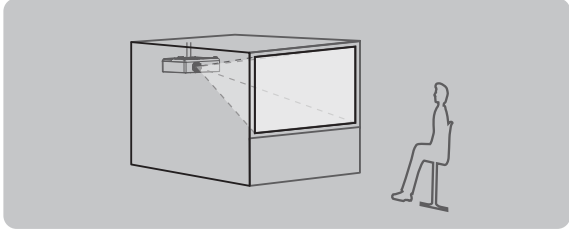
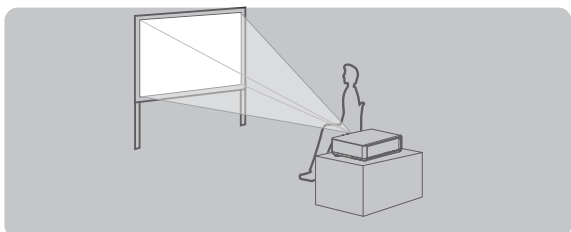
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This chapter describes things you need to do before using the projector such as the setup and connections.

# Setting up

## Installation mode

There are four ways to set up the projector. Set the [PROJECTOR SETUP] menu → [PROJECTION METHOD] (➔ page 70) depending on the installation location.

<b>Mounting on the ceiling and projecting forward</b> 		<b>Setting on a desk/floor and projecting from rear</b> (Using the translucent screen) 	
<b>Menu item</b>	<b>Method</b>	<b>Menu item</b>	<b>Method</b>
[PROJECTION METHOD]	[FRONT/CEILING]	[PROJECTION METHOD]	[REAR/DESK]
<b>Mounting on the ceiling and projecting from rear</b> (Using the translucent screen) 		<b>Setting on a desk/floor and projecting forward</b> 	
<b>Menu item</b>	<b>Method</b>	<b>Menu item</b>	<b>Method</b>
[PROJECTION METHOD]	[REAR/CEILING]	[PROJECTION METHOD]	[FRONT/DESK]

## Parts for ceiling mount (optional)

This requires an optional ceiling mount bracket. Be sure to use the Projector Mount Bracket together with the ceiling mount bracket for high ceilings or low ceilings.

Model No.:

- ① ET-PKL100H (for high ceilings), ET-PKV400B (Projector Mount Bracket)
- ② ET-PKL100S (for low ceilings), ET-PKV400B (Projector Mount Bracket)

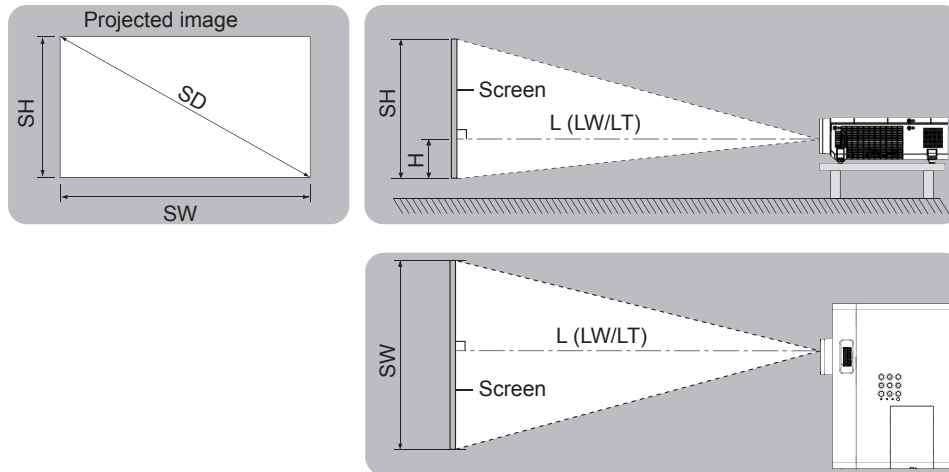
- Use only the ceiling mount brackets specified for this projector.
- Refer to the Installation Instructions for the ceiling mount bracket when you install the bracket and the projector.

### Attention

- To ensure projector performance and security, installation of the ceiling mount bracket must be carried by your dealer or a qualified technician.

## Screen size and throw distance

Refer to the screen size and projection distances to install the projector. Image size and image position can be adjusted in accordance with the screen size and screen position.



L (LW/LT) *1	Projection distance (m)
SH	Image height (m)
SW	Image width (m)
H	Distance from the center of lens to the image lower end (m)
SD	Projected image size (m)

\*1 LW : Minimum distance  
LT : Maximum distance

### Attention

- Before installing, please read “Precautions for Use” (➔ page 14).

## Projection distance

### For PT-VW350

All measurements below are approximate and may differ slightly from the actual measurements. (Unit: m)

Projection size	For 4:3 aspect ratio			For 16:9 aspect ratio			For 16:10 aspect ratio		
	Minimum distance (LW)	Maximum distance (LT)	Height position (H)	Minimum distance (LW)	Maximum distance (LT)	Height position (H)	Minimum distance (LW)	Maximum distance (LT)	Height position (H)
0.76 (30")	0.83	1.37	0.009	0.76	1.24	-0.012	0.73	1.21	0.008
1.02 (40")	1.13	1.85	0.012	1.02	1.68	-0.017	0.99	1.63	0.011
1.27 (50")	1.41	2.31	0.015	1.28	2.09	-0.021	1.25	2.04	0.013
1.52 (60")	1.70	2.77	0.018	1.54	2.51	-0.025	1.50	2.44	0.016
1.78 (70")	1.99	3.25	0.021	1.81	2.95	-0.029	1.76	2.87	0.019
2.03 (80")	2.28	3.71	0.024	2.07	3.37	-0.033	2.01	3.27	0.022
2.29 (90")	2.57	4.19	0.027	2.33	3.80	-0.037	2.27	3.70	0.024
2.54 (100")	2.86	4.65	0.030	2.59	4.22	-0.041	2.52	4.10	0.027
3.05 (120")	3.44	5.59	0.037	3.12	5.07	-0.050	3.03	4.93	0.032
3.81 (150")	4.30	6.99	0.046	3.90	6.34	-0.062	3.80	6.17	0.040
5.08 (200")	5.74	9.33	0.061	5.21	8.47	-0.083	5.07	8.24	0.054
6.35 (250")	7.19	11.67	0.076	6.52	10.59	-0.104	6.34	10.30	0.067
7.62 (300")	8.63	14.01	0.091	7.82	12.72	-0.124	7.62	12.37	0.081

**For PT-VX420**

All measurements below are approximate and may differ slightly from the actual measurements. (Unit: m)

Projection size	For 4:3 aspect ratio			For 16:9 aspect ratio		
	Minimum distance (LW)	Maximum distance (LT)	Height position (H)	Minimum distance (LW)	Maximum distance (LT)	Height position (H)
0.76 (30")	0.69	1.14	0.046	0.75	1.24	-0.012
1.02 (40")	0.94	1.54	0.061	1.02	1.68	-0.017
1.27 (50")	1.17	1.92	0.076	1.28	2.09	-0.021
1.52 (60")	1.41	2.30	0.091	1.54	2.51	-0.025
1.78 (70")	1.65	2.70	0.107	1.81	2.94	-0.029
2.03 (80")	1.89	3.08	0.122	2.06	3.36	-0.033
2.29 (90")	2.14	3.48	0.137	2.33	3.80	-0.037
2.54 (100")	2.37	3.87	0.152	2.59	4.21	-0.031
3.05 (120")	2.86	4.65	0.183	3.11	5.07	-0.050
3.81 (150")	3.58	5.81	0.229	3.90	6.33	-0.062
5.08 (200")	4.78	7.76	0.305	5.21	8.45	-0.083
6.35 (250")	5.98	9.70	0.381	6.52	10.57	-0.104
7.62 (300")	7.18	11.65	0.457	7.82	12.70	-0.124

**Projection distance formulas**

Any other projection distance can be obtained according to the screen dimensions (m) by using the following calculations. The calculated distance may contain a certain error.

If you want to calculate the projection distance with projected image size SD (unit: inch) by substituting, please assign 0.0254 times to the SD value.

**For PT-VW350**

	For 4:3 aspect ratio	For 16:9 aspect ratio	For 16:10 aspect ratio
Screen height (SH)	= $0.6 \times \text{SD(m)}$	= $0.490 \times \text{SD(m)}$	= $0.530 \times \text{SD(m)}$
Screen width (SW)	= $0.8 \times \text{SD(m)}$	= $0.872 \times \text{SD(m)}$	= $0.848 \times \text{SD(m)}$
Minimum distance (LW)	= $1.1363 \times \text{SD(m)} - 0.0290$	= $1.0316 \times \text{SD(m)} - 0.0290$	= $1.0037 \times \text{SD(m)} - 0.0290$
Maximum distance (LT)	= $1.8422 \times \text{SD(m)} - 0.0292$	= $1.6725 \times \text{SD(m)} - 0.0292$	= $1.6273 \times \text{SD(m)} - 0.0292$

**For PT-VX420**

	For 4:3 aspect ratio	For 16:9 aspect ratio
Screen height (SH)	= $0.6 \times \text{SD(m)}$	= $0.490 \times \text{SD(m)}$
Screen width (SW)	= $0.8 \times \text{SD(m)}$	= $0.872 \times \text{SD(m)}$
Minimum distance (LW)	= $0.9461 \times \text{SD(m)} - 0.0295$	= $1.0307 \times \text{SD(m)} - 0.0295$
Maximum distance (LT)	= $1.5324 \times \text{SD(m)} - 0.0272$	= $1.6696 \times \text{SD(m)} - 0.0272$



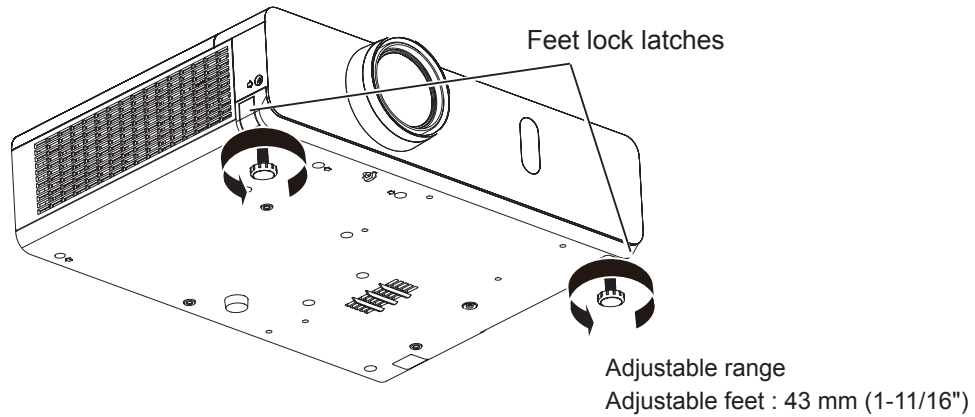
## Adjusting adjustable feet

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Lift the front of the projector and press the feet lock latches on both side of the projector.

Release the feet lock latches to lock the adjustable feet and rotate the adjustable feet to a proper height and tilt.

Extend the adjustable feet by rotating in the direction shown in the figure and retract by rotating in the opposite direction.



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### Attention

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- Heated air comes out of the air exhaust port while the lamp is lit. Do not touch the air exhaust port directly when you adjust the adjustable feet.
- If keystone distortion occurs on the projected image, perform [KEystone] from the [POSITION] menu. (➔ page 56)

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### Note

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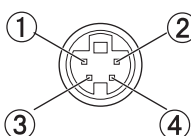
- Screw up the adjustable feet, and an audible click will be heard as the limit.

# Connecting

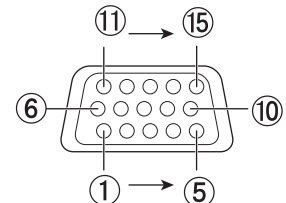
## Before connecting

- Before connecting, carefully read the operating instructions for the external device to be connected.
- Turn off the power switch of the devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
  - When connecting a cable to a device connected to the projector or the projector itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
  - Do not use unnecessarily long cables to connect to a device connected to the projector or to the projector body. The longer the cable, the more it is susceptible to noise. Since using a cable while it is wound makes it act like an antenna, it is more susceptible to noise.
  - When connecting cables, connect GND first, then insert the connecting terminal of the connecting device in a straight manner.
- If any connection cable is not supplied with the device, or if no optional cable is available for connection of the device, prepare a necessary system connection cable to suit the device.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or wafture. In this case, a time base corrector (TBC) must be connected.
- The projector accepts VIDEO signals, S-VIDEO signals, YC<sub>B</sub>C<sub>R</sub>/YP<sub>B</sub>P<sub>R</sub> signals and analog RGB signals (synchronous signals are TTL level), and digital signal.
- Some computer models or graphics cards are not compatible with the projector.
- When using long cables to connect with each of equipment to the projector, there is a possibility that the image will not be output correctly unless a compensator is used.
- For details on what video signals the projector supports, see "List of compatible signals". (➔ page 112)

### <S-VIDEO IN> terminal pin assignments and signal names

Outside view	Pin No.	Signal names
	①	GND (luminance signal)
	②	GND (color signal)
	③	Luminance signal
	④	Color signal

### <COMPUTER 1 IN> terminal pin assignments and signal names

Outside view	Pin No.	Signal names	Pin No.	Signal names
	①	R/P <sub>R</sub>	⑨	+ 5 V
	②	G/Y	⑩	GND
	③	B/P <sub>B</sub>	⑪	GND
	④	—	⑫	DDC data
	⑤	GND	⑬	HD/SYNC
	⑥	GND	⑭	VD
	⑦	GND	⑮	DDC clock
	⑧	GND		

**<COMPUTER 2 IN/1 OUT> terminal pin assignments and signal names**

Outside view	Pin No.	Signal names	Pin No.	Signal names
	①	R/P <sub>R</sub> *1	⑨	+5 V
	②	G/Y*1	⑩	GND
	③	B/P <sub>B</sub> *1	⑪	—
	④	—	⑫	DDC data
	⑤	GND	⑬	HD/SYNC
	⑥	GND	⑭	VD
	⑦	GND	⑮	DDC clock
	⑧	GND		

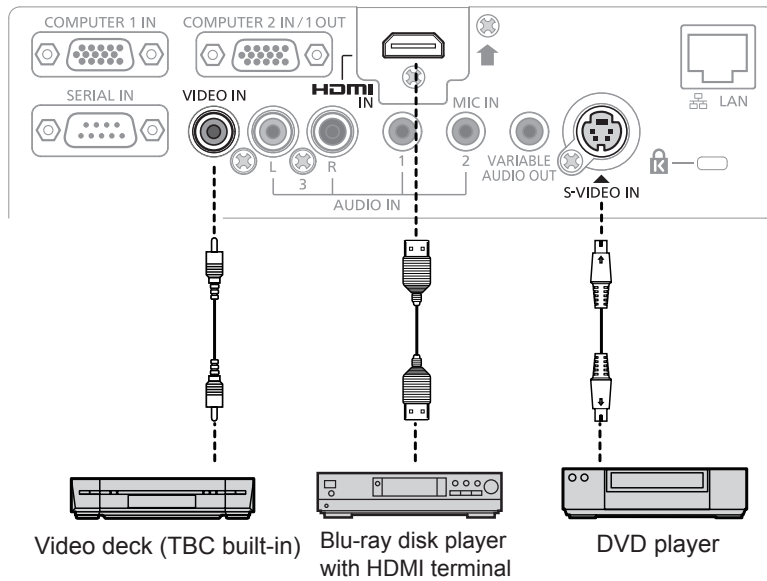
\*1: It is only for RGB signals when the terminal is used as the input terminal.

**<HDMI IN> terminal pin assignments and signal names**

Outside view	Pin No.	Signal names	Pin No.	Signal names
<p>Even-numbered pins ② to ⑱</p> <p>Odd-numbered pins ① to ⑲</p>	①	T.M.D.S data 2+	⑪	T.M.D.S clock shield
	②	T.M.D.S data 2 shield	⑫	T.M.D.S clock -
	③	T.M.D.S data 2-	⑬	CEC
	④	T.M.D.S data 1+	⑭	—
	⑤	T.M.D.S data 1 shield	⑮	SCL
	⑥	T.M.D.S data 1-	⑯	SDA
	⑦	T.M.D.S data 0+	⑰	DDC/CEC GND
	⑧	T.M.D.S data 0 shield	⑱	+5 V
	⑨	T.M.D.S data 0-		Hot plug detection
	⑩	T.M.D.S clock +		

## Connecting example : AV equipment

### For <HDMI IN>/<VIDEO IN>/<S-VIDEO IN> terminals



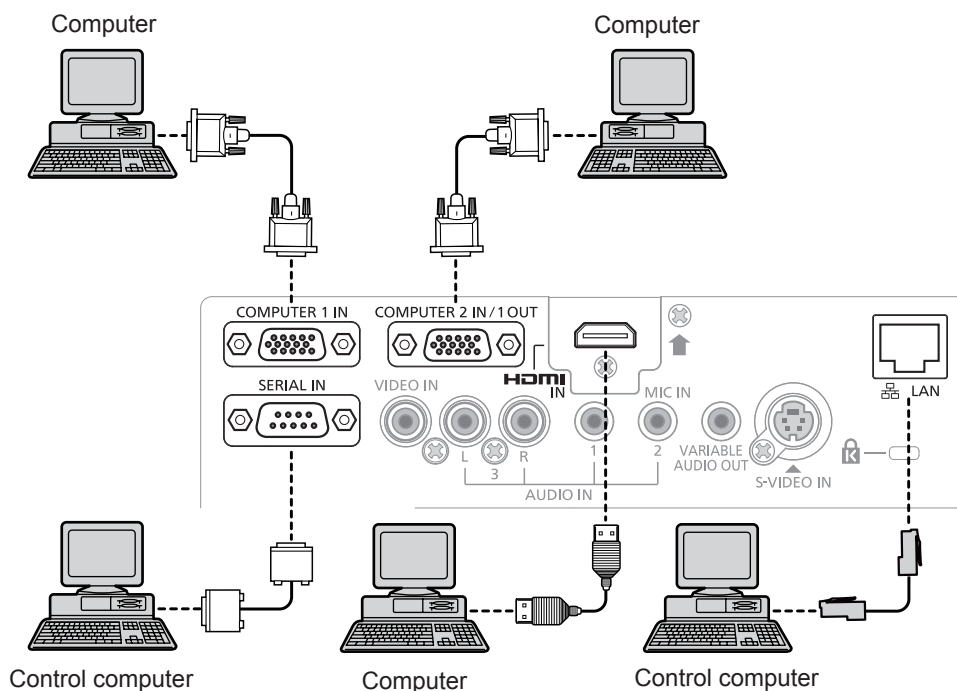
### Attention

- Always use one of the following when connecting a VCR.
  - A VCR with built-in time base corrector (TBC).
  - A time base corrector (TBC) between the projector and the VCR.
- If nonstandard burst signals are connected, the image may be distorted. In such case, connect the time base corrector (TBC) between the projector and the external devices.

### Note

- For an HDMI cable, use an HDMI High Speed cable that conforms to HDMI standards. If a cable that does not conform to HDMI standards is used, images may be interrupted or may not be displayed.
- This projector does not support the Viera link (HDMI).

## Connecting example : Computers



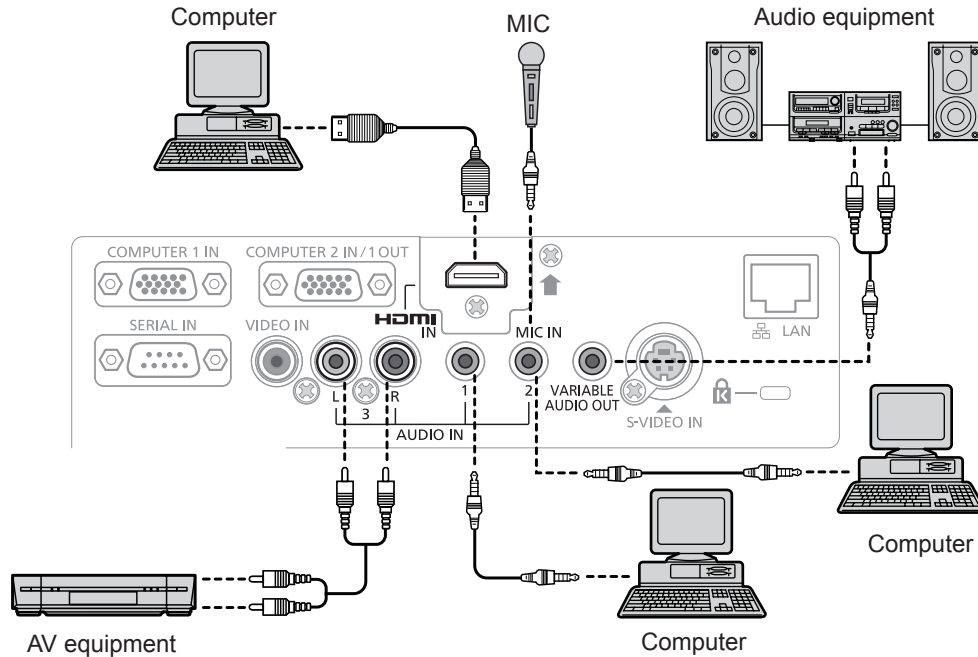
### Attention

- When connecting the projector to a computer or an external device, use the power cord supplied with each device and commercially available shielded cables.

### Note

- If you operate the projector using the computer with the resume feature (last memory), you may have to reset the resume feature to operate the projector.

### Connecting example : Audio



### Note

- If the [AUDIO IN SELECT] settings are incorrect, the projector may have malfunctions such as the absence of audio. (➔ page 74)
- When the <VARIABLE AUDIO OUT> terminal is connected with cable, the sound will not be output from the built-in speaker.

# Chapter 3 Basic Operations

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This chapter describes basic operations to start with.

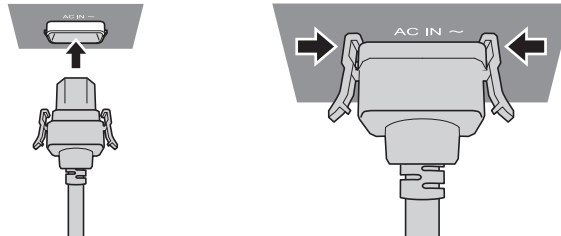
# Powering on/off

## Connecting the power cord

Make sure that the supplied power cord is securely fixed to the projector body to prevent it from being removed easily.

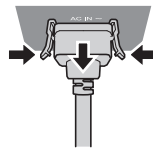
For details of power cord handling, refer to "Read this first!" (➔ page 2).

### Attaching



- 1) Check the shapes of the <AC IN> terminal on the back of the projector body and the power cord connector and insert the plug completely in the correct direction (until you hear the side tabs click in place).

### Removing

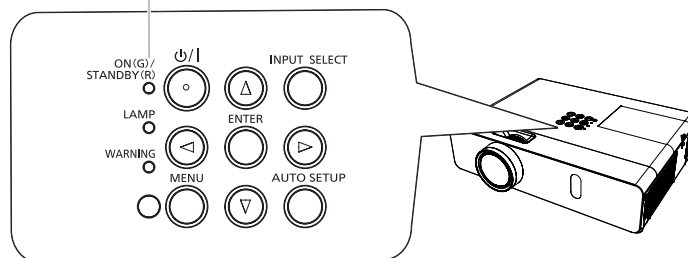


- 1) Confirm that the projector is in standby mode, and remove the power plug from the outlet.
- 2) Remove the power cord connector from the <AC IN> terminal of the projector body while pressing the side tabs.

## Power indicator

The power indicator <ON(G)/STANDBY(R)> informs you the status of the power. Confirm the status of the power indicator <ON(G)/STANDBY(R)> before operating the projector.

Power indicator <ON(G)/STANDBY(R)>



Indicator status		Status
Off		The power cord is unplugged.
Red	Lit	The power is switched off (in standby mode). The [PROJECTOR SETUP] menu ➔ [ECO MANAGEMENT] ➔ [STANDBY MODE] is set to [ECO].
	Blinking	The power is switched off (in standby mode). The [PROJECTOR SETUP] menu ➔ [ECO MANAGEMENT] ➔ [STANDBY MODE] is set to [NETWORK].*1 The power is switched off (in standby mode). The [PROJECTOR SETUP] menu ➔ [ECO MANAGEMENT] ➔ [STANDBY MODE] is set to [NORMAL].*2
Orange	Lit	The projector is cooling down. The power is switched off after a while. (Changes to the standby mode.)

Indicator status		Status
Green	Lit	Projecting.
	Blinking	The power is on and the lamp is not working. The [PROJECTOR SETUP] menu → [ECO MANAGEMENT] → [POWER MANAGEMENT] is set to [READY].*3
		The lamp starts work. The projector will project image after a while.*4

\*1: The indicator will light as the following order:

2.75 seconds (light) → 0.25 seconds (off) → 0.75 seconds (light) → 0.25 seconds (off)

\*2: The indicator will light as the following order:

2.75 seconds (light) → 0.25 seconds (off)

\*3: The indicator will light as the following order:

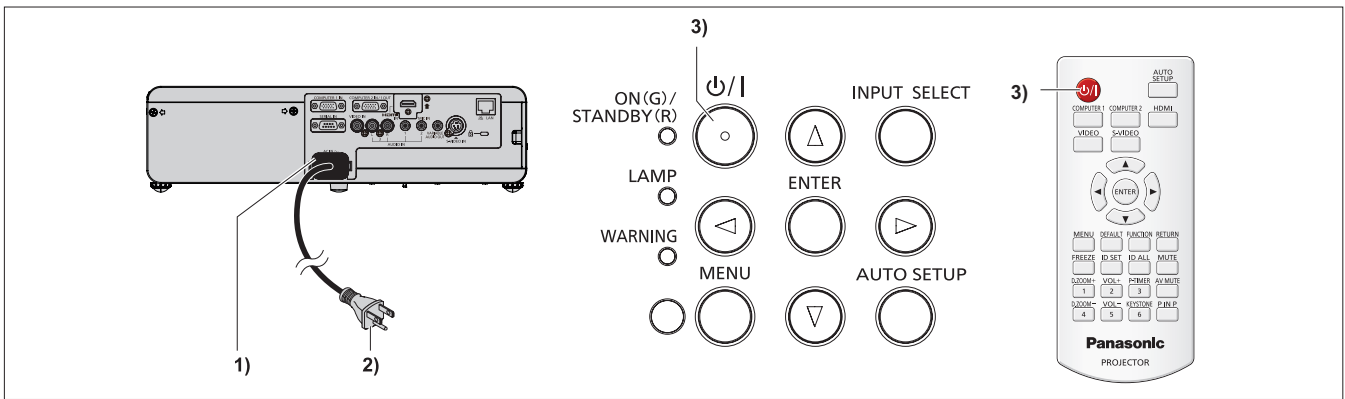
2.0 seconds (light) → 2.0 seconds (off)

\*4: The indicator will light as the following order:

0.5 seconds (light) → 0.5 seconds (off)

## Powering On the Projector

Before switching on the projector, make sure all the other devices are correctly connected (➔ page 32) and remove the lens cap.



1) **Connect the power cord to the projector body.**

2) **Connect the power plug to an outlet.**

- The power indicator <ON(G)/STANDBY(R)> lights or blinks, and the projector will enter the standby mode.

3) **Press the power <⏻/|> button on the control panel or on the remote control.**

- The power indicator <ON(G)/STANDBY(R)> lights in green and the image is soon projected on the screen.

### Attention

- Be sure to remove the lens cap before starting projection.

### Note

- If the [PROJECTOR SETUP] menu → [ECO MANAGEMENT] → [STANDBY MODE] is set to [ECO], it may take approx. 10 seconds longer before the projector starts projecting after the power is turned on, compared with when [NORMAL] is set.

## When the initial setting screen is displayed

When the projector is switched on for the first time after purchase as well as when [INITIALIZE ALL] in the [PROJECTOR SETUP] menu is executed, then the initial setting screen is displayed. Set them in accordance with circumstances.

In other occasions, you can change the settings by menu operations.

### Initial setting (display language)

Select the language to show on the screen.

After completed the initial setting, you can change the display language from the [LANGUAGE] menu.



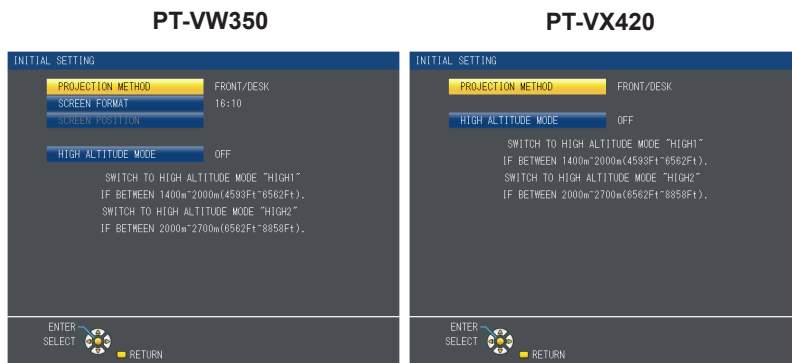
- 1) Press ▲▼◀▶ to select the display language.



- 2) Press the <ENTER> button to proceed to the initial setting.

### Initial setting (installation setting)

Set each item.



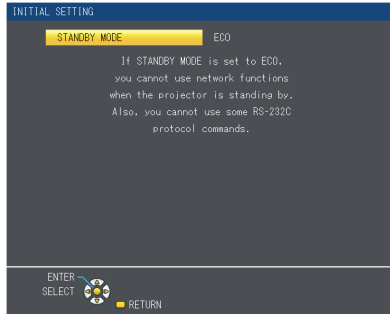
- 1) Press ▲▼ to select an item.

Item	Description	Page
[PROJECTION METHOD]	Set [PROJECTION METHOD] depending on the installation mode. After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu → [PROJECTION METHOD].	70
[SCREEN FORMAT]*1	Set the screen format (aspect ratio) and display position of the image. After completed the initial setting, you can change the settings of each item from the [DISPLAY OPTION] menu → [SCREEN SETTING].	64
[SCREEN POSITION]*1	Set the display position of the image. After completed the initial setting, you can change the settings of each item from the [DISPLAY OPTION] menu → [SCREEN SETTING].	64
[HIGH ALTITUDE MODE]	Change the setting when the projector is used at high altitude. Set it to [OFF] when using the projector at altitude lower than 1 400 m (4 593'), set it to [HIGH1] when using the projector at altitude between 1 400 m (4 593') and 2 000 m (6 562') above sea level, and set it to [HIGH2] when using the projector at altitude between 2 000 m (6 562') and 2 700 m (8 858') above sea level.	70

\*1 Only for PT-VW350.

- 2) Press ◀▶ to switch the setting.  
 3) Press the <ENTER> button to perform next initial setting.

Initial setting (standby mode)



Item	Description	Page
[STANDBY MODE]	<p>Set the operation mode during standby.</p> <ul style="list-style-type: none"> <li>• The default setting is [ECO] that keeps power consumption low during standby.</li> <li>• Set to [NORMAL] to use the network function or the serial communication function during standby.</li> <li>• Set to [NETWORK] to reduce power consumption during standby, and to operate the projector via the wired LAN or the serial communication function by using the Wake on LAN function.</li> </ul> <p>After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu → [ECO MANAGEMENT] → [STANDBY MODE].</p>	72

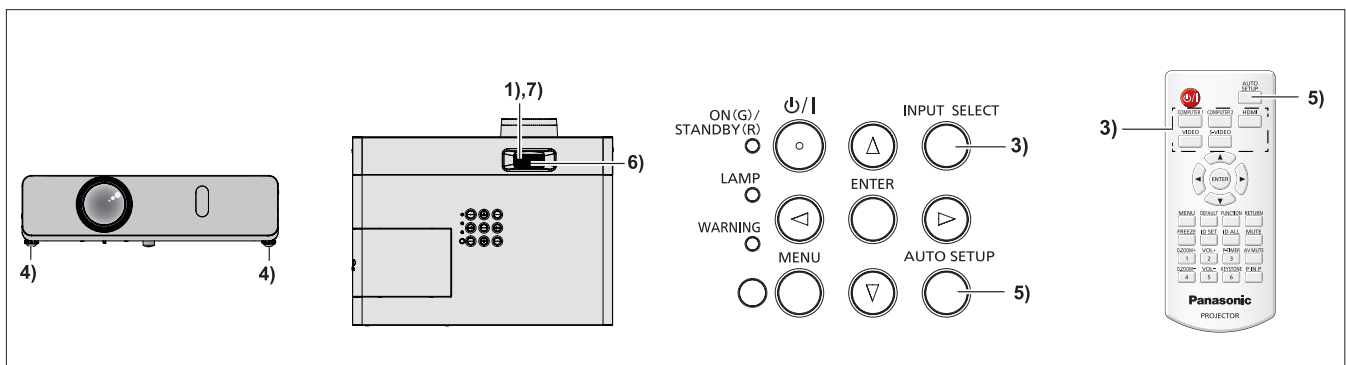
- 1) Press ◀▶ to switch the setting.
- 2) Press the <ENTER> button.
  - Confirm the setting value and complete the initial setting.

Note

- If you press the <RETURN> button while the initial setting screen is displayed, you can go back to the previous screen.
- The above initial setting screen is the one displayed when the projector is switched on for the first time after purchase. When [PROJECTOR SETUP] menu → [INITIALIZE ALL] is executed, the setting of [STANDBY MODE] before execution is displayed.

Making adjustments and selections

It is recommended that images are projected continuously for at least 30 minutes before the focus is adjusted.



- 1) Adjust the focus of the image roughly. (➡ page 40)
- 2) Change the settings of the [PROJECTOR SETUP] menu → [PROJECTION METHOD] depending on the installation mode. (➡ page 70)
  - Refer to “Navigating through the menu” (➡ page 47) for the operation of the menu screen.
- 3) Press the <INPUT SELECT> button on the control panel or the input selection (<COMPUTER 1>, <COMPUTER 2>, <HDMI>, <VIDEO>, <S-VIDEO>) buttons on the remote control to select the input signal.
- 4) Adjust the front, back and sideways tilt of the projector with the adjustable feet. (➡ page 29)
- 5) If the input signal is an analog RGB signal, press the <AUTO SETUP> button.

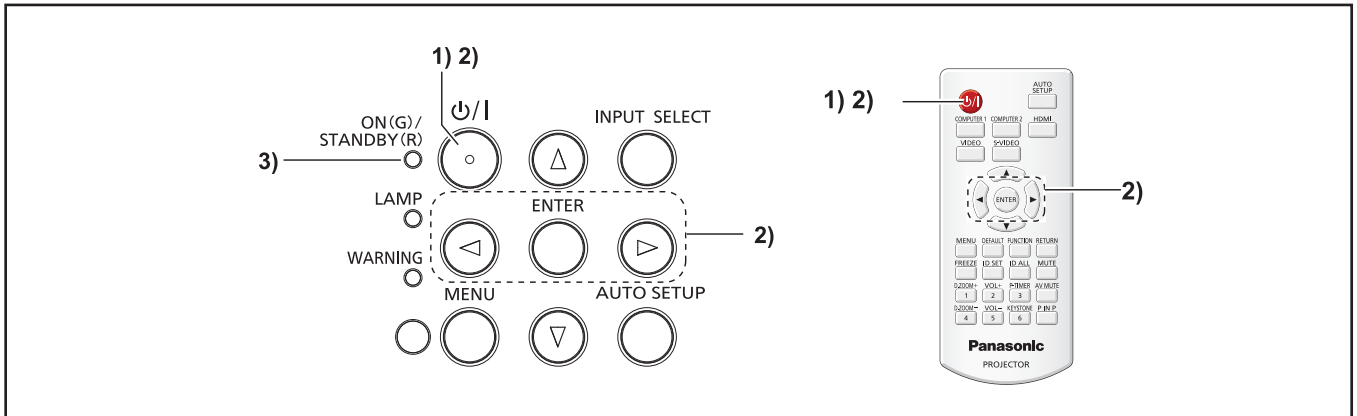
6) Adjust the size of the image to match the screen with the zoom ring.

7) Adjust the focus with the focus ring.

**Note**

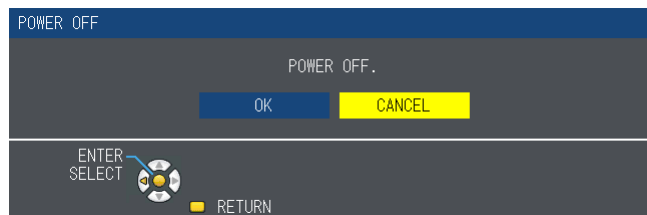
- When the projector is switched on for the first time after purchase as well as when the [PROJECTOR SETUP] menu → [INITIALIZE ALL] is executed, the initial setting screen is displayed after projection starts.

**Powering Off the Projector**



1) Press the power <power icon> button on the control panel or on the remote control.

- The following message appears.



2) Press <left/right arrow> to select [OK], and press the <ENTER> button.  
(Or press the power <power icon> button on the control panel or on the remote control again.)

- Projection of the image will stop, and the power indicator <ON(G)/STANDBY(R)> lights in orange. (The fans keep running.)

3) Wait until the power indicator <ON(G)/STANDBY(R)> lights or blinks in red.

- The projector enters standby mode when the power indicator <ON(G)/STANDBY(R)> lights or blinks in red.

**Note**

- While the power indicator <ON(G)/STANDBY(R)> is lighting in orange, the lamp is being cooled down and the projector cannot be turned on. Wait until the power indicator <ON(G)/STANDBY(R)> starts lighting or blinking in red to turn on the projector again.
- When packing the projector for transportation and storage, please make sure that each indicator is off.

**Direct Power Off function**

You can disconnect the power cord from the wall outlet or turn off the power breaker switch even during projection.

**Attention**

- Do not disconnect the power cord from the wall outlet or turn off the power breaker switch in a short time (about 1 minute) after the lamp is lit. Doing so may cause the lamp fail to light while you powering on the projector next time, or result in premature deterioration of the lamp.

**Note**

- When using the Direct Power Off function, you cannot restart the projector immediately after disconnecting the power cord from the wall outlet or turning off the power breaker switch. The lamp remains high temperature and needs to cool down, so it sometimes takes a longer time than usual for the lamp to light up again.

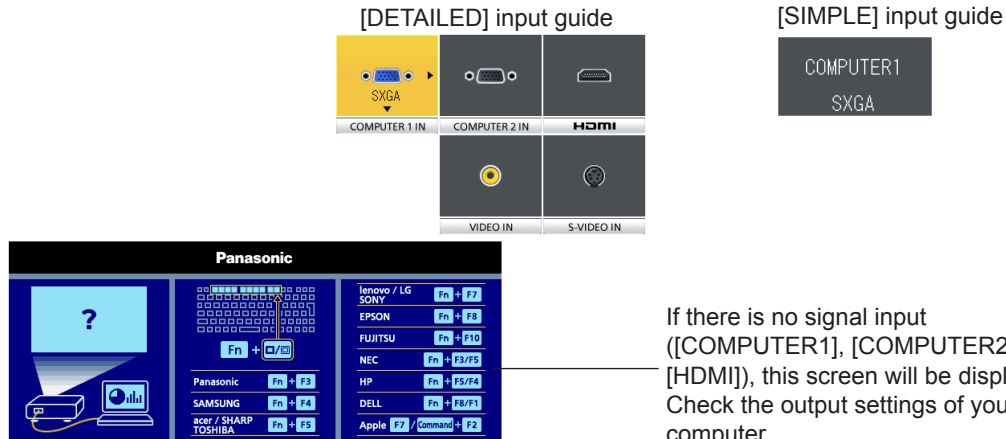
# Projecting

Check the connections of the peripheral devices (➔ page 30) and connection of the power cord (➔ page 34) and switch on the power (➔ page 36) to start the projector. Select the image and adjust the state of the image.

## Selecting the input signal

Select an input signal.

- 1) Press the <COMPUTER 1>, <COMPUTER 2>, <HDMI>, <VIDEO> or <S-VIDEO> button on the remote control or <INPUT SELECT> button on the control panel.
  - The image of the signal being input in the selected terminal is projected.
  - You can check the input source through [DETAILED] / [SIMPLE] under the [DISPLAY OPTION] → [ON-SCREEN DISPLAY] → [INPUT GUIDE] menu.
  - You can also select the input source by pressing ▲▼◀▶ on the [DETAILED] screen.



If there is no signal input ([COMPUTER1], [COMPUTER2] or [HDMI]), this screen will be displayed. Check the output settings of your computer.

### Attention

- Images may not be projected properly depending on the connected device and DVD, video tape, etc. to be played. Set the [PICTURE] menu → [RGB/YC<sub>B</sub>C<sub>R</sub>] or [RGB/YP<sub>B</sub>P<sub>R</sub>] (➔ page 55).
- Check the aspect ratio of the screen and the image and select the optimum aspect ratio under the [POSITION] menu (➔ page 59).

## How to adjust the state of the image

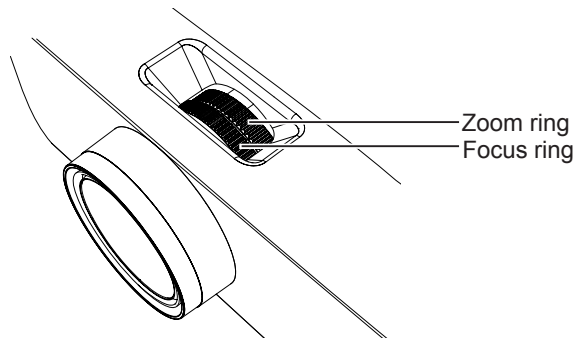
If the projected image or the position is not correct when the positioning of the projector and the screen is correctly installed, adjust the focus and zoom.

### 1) Adjust the projection angle.

- Install the projector on a flat surface and parallel to the screen so that the projected screen is rectangular.
- If the screen is tilted downward, extend the adjustable feet and adjust the projection screen so that the projected screen is rectangular.
- For details, see “Adjusting adjustable feet” (➔ page 29).

### 2) Adjust the zoom and the focus.

- Rotate the zoom ring to zoom in and out the image.
- Rotate the focus ring to adjust the focus of the projected image.



### Note

- It is recommended that the images are projected continuously for at least 30 minutes before the focus is adjusted.
- If you adjust the focus, you may need to adjust the size of the image by turning the zoom ring again.
- If keystone distortion occurs, see the [POSITION] menu → [KEystone] (➔ page 56).